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Heidelberg, Germany

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Army in Europe
Regulation 55-4*

USAFE
Instruction 24-203*

1 May 2003

Transportation and Travel

Safe Movement of Hazardous Goods by Surface Modes

***This publication supersedes AE Regulation 55-4/USAFE Instruction 24-203, 31 December 2002.**

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Summary. This publication--

• Assigns responsibilities and prescribes policy and procedures for transporting DOD hazardous material (HAZMAT) and hazardous waste in the European theater.

• Defines specifications of vehicles and transport units authorized to move dangerous goods over public highways.

• Defines preparation and documentation requirements for transporting HAZMAT by road or rail when the HAZMAT will also be transported by sea or air.

• Is based on the 2001 *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road) and the 2001 *Règlement International concernant le Transport des Marchandises dangereuses* (*RID*) (European Regulation Concerning the International Carriage of Dangerous Goods by Rail). Website links in this publication are to the 2001 *ADR*.

NOTE: Host countries may specify more stringent procedures that will take precedence over procedures in this publication. Commands with operational responsibility in affected areas will report these procedures to the USAREUR G4 (AEAGD-PT) for inclusion in this publication.

Summary of Change. This revision prohibits personnel from climbing on vehicles and equipment that are loaded on railcars (para 36d(3)(a)).

Applicability. This publication applies to activities and organizations located or operating in Europe. It does not apply to operations in the restricted areas of aerial ports or flight lines.

Supplementation. Commanders will not supplement this publication without USAREUR G4 (AEAGD-PT) approval.

Forms. This publication prescribes AE Form 55-4AA. AE and higher-level forms are available through the Army in Europe Publishing System (AEPUBS).

Records Management. Records created as a result of processes prescribed by this publication must be identified, maintained, and disposed of by--

- Army in Europe units according to AR 25-400-2. Record titles and descriptions are available on the Army Records Information Management System website at *https://www.arims.army.mil*.

- USAFE units according to Air Force Manual 37-139.

Suggested Improvements. The proponent of this publication is the USAREUR G4 (AEAGD-PT, DSN 370-7534). Users may suggest improvements to this publication by sending DA Form 2028 to the USAREUR G4 (AEAGD-PT), Unit 29351, APO AE 09014-9351.

Distribution. B (AEPUBS).

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Section I
GENERAL

1. PURPOSE
This publication assigns responsibilities and prescribes policy and procedures for transporting DOD hazardous material (HAZMAT) and hazardous waste by surface (road or rail to and from water and aerial ports) throughout the area of applicability of the--

a. *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road).

b. *Règlement International concernant le Transport des Marchandises dangereuses* (*RID*) (European Regulation Concerning the International Carriage of Dangerous Goods by Rail).

2. REFERENCES
Appendix A lists references.

3. EXPLANATION OF ABBREVIATIONS AND TERMS
The glossary defines abbreviations and terms.

4. RESPONSIBILITIES
The safe movement of HAZMAT by road and rail is the responsibility of all personnel handling the material. Unless otherwise specified by this publication or host-country law, commanders are responsible for the safe execution of the HAZMAT movement program. All individuals participating in the transport process, by management or function, will be trained to a degree commensurate with their responsibility. Appendix B provides more information on training.

a. The Safety Division, Office of the G1, HQ USAREUR/7A, will--

(1) Plan, design, and establish contracting statements of work for training required for the safe movement of HAZMAT by road and rail. The contents of and prerequisites for this training will be provided to the appropriate offices of USAREUR major subordinate and tenant commands (AE Reg 10-5, app A); area support groups (ASGs) of the United States Army Installation Management Agency, Europe Region Office (IMA-Europe); and USAFE major commands (MAJCOMs). Sponsors of the training will provide publications applicable to the HAZMAT program during the training.

(2) Identify commercial sources of accident information sheets (AISs) and required multilanguage instructions to drivers.

(3) Serve as the USEUCOM POC for the annual review of reports from USAREUR and USAFE dangerous goods advisers (DGAs) (sec VII). Consolidated reports will be submitted to HQ USEUCOM J4; the Office of the G4, HQ USAREUR/7A (AEAGD-PT); and HQ USAFE/LG by 31 March each year. On request and as approved by the Safety Division, Office of the G1, this report will be made available to the appropriate host-country agency for review.

(4) Appoint a DGA according to section VII.

b. The Office of the G3, HQ USAREUR/7A, will--

(1) Ensure that HAZMAT transportation training requirements are incorporated into USAREUR Regulation 350-1.

(2) Execute training requirements for centralized courses through the Combined Arms Training Center.

(3) Ensure that requirement documents for transportation assets consider current and projected European vehicle-design requirements.

(4) Ensure that material fielding plans for transportation assets consider European and host-country vehicle-design requirements and take action to obtain required waivers to these requirements before fielding if necessary.

c. The USAREUR G4 (AEAGD-PT) will--

(1) Negotiate policy on the safe movement of HAZMAT by road and rail for its functional and geographic area of responsibility. Negotiations will be coordinated with other USEUCOM subordinate commands before accepting conditions applicable to these commands.

(2) Issue policy to subordinate units based on DOD and Army in Europe policy and on accepted host-country rules as negotiated and affect required changes (d(3) below).

(3) Monitor the compliance of subordinate units with this publication.

(4) Obtain reports from USAREUR DGAs and send them to the Safety Division, Office of the G1, by 31 January each year.

(5) Establish guidance for subordinate units and monitor unit HAZMAT training to ensure that at least the minimum number of qualified personnel required by the units for mission readiness receive training.

(6) Train unit and installation commanders on their responsibilities for the safe movement of HAZMAT in Europe.

(7) Chair the Joint Hazardous Material Steering Committee (JHMSC) (d below).

(8) Establish policy and technical procedures for the authorization, inspection, and certification of military vehicles, tanks, and containers moving HAZMAT (app C).

d. The JHMSC will--

(1) Coordinate all activities related to this publication.

(2) Evaluate changes to host-country laws on HAZMAT to determine their applicability to the U.S. Forces in Europe.

(3) Recommend changes to HAZMAT policy as required to the USAREUR G4 (AEAGD-PT).

(4) On request, brief commanders on the status of the Joint Hazardous Material Movement Program.

(5) Conduct meetings twice a year. One of these meetings will be before the annual Sending States Forces meeting on HAZMAT at the German Federal Ministry of Defense.

(6) Solicit improvements and additions to dangerous goods lists to ensure that at least 80 percent of routinely transported HAZMAT is represented.

e. HQ USAFE/LGT will--

(1) Arrange for the training of personnel responsible for the movement of HAZMAT according to the training requirements established by the USAREUR G1.

(2) Negotiate requirements for the safe movement of HAZMAT by road and rail in the USAFE functional and geographic area of responsibility. Negotiations will be coordinated with applicable offices of other USEUCOM subordinate commands before agreeing to requirements.

(3) Issue policy to subordinate units based on DOD and Air Force instructions and regulations, and on accepted host-country requirements as negotiated, notifying the proponent of this document for selective incorporation of those differences.

(4) Monitor the compliance of subordinate units with this publication.

(5) Collect training requirements from subordinate commands and ensure funds are available for the required training.

(6) Establish guidance for subordinate units and monitor unit HAZMAT training to ensure that at least the minimum number of personnel required by the unit receive training.

(7) Train installation commanders on their responsibilities for the safe movement of HAZMAT in Europe.

(8) Collect reports from USAFE DGAs and send them to the Safety Division, Office of the G1, HQ USAREUR/7A, by 31 January each year.

(9) Cochair the JHMSC.

(10) Participate in JHMSC meetings.

(11) Appoint a DGA according to section VII.

(12) Appoint experts authorized to inspect and certify military vehicles, tanks, and containers approved for moving dangerous goods.

f. DGAs (sec VII) will--

(1) Monitor unit compliance with HAZMAT regulations through personnel appointed by unit commanders and through other responsible personnel.

(2) Maintain documentation on their monitoring duties, including dates of inspections, names of inspected persons and units, and types of processes inspected (for example, certification, packaging, loading).

(3) Maintain a list of appointed personnel and their training status.

(4) Report deficiencies concerning the safe movement of HAZMAT to their commander.

(5) Compile data as prescribed by section and submit the data to the installation commander by 10 December each year.

(6) Maintain records and documents on file for at least 5 years, or as directed by service regulation.

(7) Assist in training unit personnel in the safe handling of HAZMAT.

(8) Assist in the development of the duties and monitoring of subordinate unit HAZMAT programs.

(9) Provide determinations for the transportation of HAZMAT not identified by this publication or in case of conflicting information.

g. The Commander, United States Army Materiel Command, Europe (USAMC-E), within the meaning of dangerous goods adviser national legislation, will serve as the “owner” of USAREUR-operated vehicles, except for vehicles that were locally procured. The USAREUR G4 is the “owner” of locally procured vehicles.

h. Commanders of USAREUR major subordinate and tenant commands and USAFE MAJCOMs will--

(1) Provide enough allocations for HAZMAT training to subordinate units to ensure that enough personnel are trained.

(2) On request and as appointed, support higher headquarters as functional representatives during negotiations with host-country authorities.

(3) In case of an accident, analyze deficiencies and monitor corrective actions to prevent recurrence.

(4) Train and appoint DGAs according to section VII. USAREUR major subordinate and tenant commands will appoint a DGA at command levels down to brigade or equivalent.

(5) Ensure enough personnel are trained in the following:

(a) Handling, packing, certifying, documenting, and inspecting HAZMAT.

(b) Loading and load securing.

(c) The transportation process.

(6) Ensure that only vehicles currently certified under the ECIP are dispatched for moving HAZMAT (app C).

(7) Monitor unit HAZMAT-movement programs.

i. ASG commanders and USAFE installation commanders will--

(1) Appoint an installation DGA and establish a HAZMAT safety program on the safe transportation, storage, handling, use, and disposal of HAZMAT. USAFE installation commanders will appoint a servicemember as DGA.

(2) Ensure the DGA is properly trained.

(3) Attend USAREUR command or USAFE MAJCOM HAZMAT training workshops. This training may be provided during annual commanders conferences or other conferences of the command's choice.

(4) Submit annual DGA reports to the appropriate office at IMA-Europe or the applicable USAFE MAJCOM by 15 January each year.

(5) Keep local reports on file for at least 3 years.

(6) Appoint responsible individuals (normally unit commanders or persons in charge) to execute the Dangerous Goods Program.

j. Unit commanders at all levels will--

(1) Appoint personnel responsible for certifying HAZMAT by--

(a) Sea, based on the International Maritime Dangerous Goods (IMDG) Code.

(b) Air, based on the technical instructions of the International Civil Aviation Organization (ICAO) and on Air Force Manual (AFMAN) 24-204/Technical Manual (TM) 38-250.

(c) Road, based on the *ADR* and this publication.

(d) Rail, based on the *RID* and this publication.

(e) Inland waterway (if required by the unit mission), based on the *Accord Européen relatif au Transport International des Marchandises dangereuses par Voies de navigation intérieures* (*ADN*) (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways), the *ADN*-Rhein (*ADNR*), and this publication.

(2) Ensure enough personnel are trained in the following:

(a) Handling, packing, certifying, documenting, and inspecting HAZMAT.

(b) Loading and load-securing.

(c) The transportation process.

(3) Ensure only vehicles currently certified under ECIP are dispatched for moving HAZMAT (app C).

(4) Monitor unit HAZMAT movement programs.

5. FUNCTIONAL RESPONSIBILITIES
This section identifies the major subdivisions of responsibility. Each subdivision includes the responsibility to train all individuals who take part in the operation. An individual or organization usually will be responsible for several functions during a single transport operation. For this reason, thorough transport-mission planning is required to identify all participants and coordinate responsibilities.

a. Consignor (Shipper). The consignor is the organization or individual who hands over the goods for transport. This function includes all activities of the shipper, including certification, packaging, and documentation.

(1) The consignor will only hand over consignments for transport that conform with the requirements of this publication. In particular, the consignor will--

(a) Determine if the dangerous goods are classified and authorized for transport.

(b) Provide the carrier with information and data on the material to be transported, required transport documents, and other required accompanying documents, such as AISs, authorizations, approvals, notifications, and certificates. All protection materials required in the AIS must be identified to the transporter, or the movement control team (MCT) as transport coordinator, to ensure that the transporter arrives with the necessary personnel, equipment, and certifications.

(c) Certify that the goods are properly packaged and presented for transport, including container-packing certificates. The shipper must provide an IMDG container packing certificate to the driver if the shipment is to be sent by sea.

(d) Use only packagings, large packagings, intermediate bulk containers (IBCs), tanks, tank-vehicles, demountable tanks, battery-vehicles, multielement gas containers (MEGCs), portable tanks, and tank containers approved for and suited to the carriage of the substances being moved.

(e) Ensure that empty unpurged tanks, tank-vehicles, demountable tanks, battery-vehicles, MEGCs, portable tanks, and tank containers, or empty uncleaned vehicles and large and small bulk containers are appropriately marked and placarded, and that empty uncleaned tanks are closed and present the same degree of leakproofness as if they were full.

(2) If a consignor uses the services of others, such as a packer, loader, or filler, the consignor will take necessary measures to ensure that the consignment meets requirements.

(3) When the consignor acts on behalf of a third party, the third party will inform the consignor in writing that dangerous goods are involved and provide the consignor with all the information and documents needed to perform consignor obligations.

b. Carrier. The carrier is the organization transporting the goods, including the driver. Carrier functions include all activities of the vehicle operator, including correct vehicle selection, vehicle and tank certification, driver qualification, marking and placarding of the vehicle, and routing.

(1) On the basis of the transport documents, accompanying documents, a visual inspection of the vehicle or the containers and, where appropriate, the load, the carrier will--

(a) Determine that the dangerous goods to be carried are authorized for transport according to this publication.

(b) Determine that the required documentation is on board the transport unit or available with the rail documentation.

(c) Determine visually that the vehicle, railcar, and loads have no obvious defects, leaks or cracks, or missing equipment.

(d) Determine that the date of the next test for tank-vehicles, battery-vehicles, fixed tanks, demountable tanks, portable tanks, tank containers, and MEGCs has not expired.

(e) Verify that vehicles are not overloaded.

(f) Determine that placards and markings prescribed for the transport units have been attached before starting the transport and removed after the transport unit is unloaded, cleaned, and purged.

(g) Determine that the equipment prescribed in the written instructions for the driver is on board the transport unit.

(h) Ensure that the vehicle crew has emergency contact information in addition to AISs.

(2) If a carrier observes errors, the carrier will not forward the consignment until the errors have been corrected. The driver has the responsibility and authority to refuse a shipment based on this evaluation.

(3) If a problem that could jeopardize the safety of operation is observed during a transport, the carrier will stop the shipment as soon as possible with regard for public safety, traffic safety, and the environment. The transport will only be continued after the consignment complies with regulations.

(4) The carrier and specifically the transport unit crew will accept responsibility for the shipment and follow the requirements of this publication for operation of the vehicle, including supervision when stops are required and actions following an accident or breakdown.

c. Consignee. The consignee is the receiver of the goods delivered by the carrier. The consignee will--

(1) Not defer to accept goods without a compelling reason.

(2) Ensure that the following duties are carried out:

(a) Cleaning and decontamination of the vehicles and containers.

(b) Remove orange warning plates and remove or obliterate placards and markings once the containers, vehicle, railcar, or tank is completely unloaded, cleaned, and purged.

d. Loader. The loader is the organization or individual who physically loads the goods in the vehicle, railcar, or container, or on or in a handling device such as a pallet or consolidation crate. The loader will--

(1) Hand over dangerous goods to the carrier only if the goods are authorized for transport.

(2) Check for damaged packaging. The loader will not hand over a package if the packaging is damaged, especially if it is not leakproof and there are leakages or the possibility of leakages of the dangerous substance, until the damage has been repaired. This policy also applies to empty uncleaned packagings.

(3) When loading dangerous goods in a vehicle, railcar, or container, or on or in a handling device, comply with the prohibitions on mixed loading. Loaders will consider dangerous goods already in the vehicle or large container and requirements concerning the separation of foodstuffs, other articles of consumption, and animal feedstuffs. This includes separating railcars loaded with class 1 from railcars loaded with certain other classes.

(4) Comply with the requirements concerning placarding and danger markings after loading dangerous goods in a container, railcar, or vehicle.

(5) Comply with the requirements for marking and labeling handling devices.

(6) Comply with any special requirements concerning loading and handling.

(7) Certify the container-packing certificate.

e. Packer. The packer is the individual who chooses the appropriate U.N.-certified packaging for the goods and performs the packaging operation, to include marking and labeling the completed package. The packer will--

(1) Identify the authorized U.N.-certified package type for the material and ensure that the packaging operation is completed according to this publication and packaging manufacturers requirements.

(2) Avoid mixing materials inside U.N.-certified packaging except as authorized under the *ADR*, *RID*, or *ADN* and under the guidance of a trained individual.

(3) Properly mark and label packages.

f. Filler. The filler is the organization or individual who loads bulk material into tanks. The filler will--

(1) Before starting the filling operation, determine--

(a) That the receiving tank and its equipment are serviceable.

(b) That the certification for the tank-vehicle, battery-vehicle, demountable tank, portable tank, tank container, or MEGC has not expired.

(2) Fill tanks only with dangerous goods authorized for transport in those tanks.

(3) Comply with the requirements concerning dangerous goods in adjoining compartments.

(4) Comply with the maximum filling level for the substance being filled.

(5) Check the leakproofness of the closing devices after filling the tank.

(6) Ensure that no dangerous residue is on the outside of the tank.

(7) Ensure that the required numbered and plain orange warning plates and placards are posted on the tanks, transport units, and containers.

Section II
GENERAL INFORMATION
This section provides instructions on planning and executing the transportation of HAZMAT by different modes of transportation.

6. HAZMAT CLASSES
Table 1 lists HAZMAT classes.

Table 1
HAZMAT Classes

Class	Description
1.1	Explosive substances and articles with a mass-explosion hazard
1.2	Articles with a projection hazard but not a mass-explosion hazard
1.3	Articles with a fire hazard and a minor blast hazard, minor projection hazard, or both; but not a mass-explosion hazard
1.4	Igniters, fireworks, and similar goods (less dangerous substances)
1.5	Very insensitive articles with a mass-explosion hazard
1.6	Extremely insensitive articles that do not have a mass-explosion hazard
2.1	Flammable gases
2.2	Nonflammable, nontoxic gases
2.3	Toxic gases
3	Flammable liquids
4.1	Flammable solids
4.2	Substances liable to spontaneous combustion
4.3	Substances that give off flammable gases on contact with water
5.1	Oxidizing substances
5.2	Organic peroxides
6.1	Toxic substances
6.2	Infectious substances
7	Radioactive substances
8	Corrosive substances
9	Miscellaneous dangerous substances

7. PREPARING HAZMAT FOR TRANSPORT

When preparing HAZMAT for transport, the questions in table 2 must be answered before the HAZMAT is shipped.

Table 2
Preparing HAZMAT for Transport

Questions	Explanation
Which mode of transportation (road, rail, sea, air, inland waterway) or combination of modes will be used to transport the HAZMAT?	Only qualified traffic-management specialists are authorized to select transportation modes for HAZMAT shipment in the Defense Transportation System. Unit movements will be according to approved unit-movement plans. Paragraphs 7b through d provide information on other modes.
What is the proper classification of the HAZMAT?	Identify the HAZMAT in one of the tables in this publication. If the material is not listed, it cannot be shipped without consulting a DGA or certified individual for direction. The proper classification includes the following: • The U.N. number for the material (in the UN column of the appropriate tables). • The proper shipping name (PSN) for the material (in the PSN column of the appropriate tables). When the PSN includes the abbreviation "N.O.S.," the chemical or technical name of the material must be included. • The proper shipping name must be written in uppercase letters. • The class and packing group for the material (from the respective table columns). Examples of correct HAZMAT classifications are as follows: • Oxygen cylinder: UN 1072, OXYGEN, COMPRESSED, 2.2, ADR. • Methanol: UN 1230, METHANOL, 3, II, RID. • Cleaning compound: UN 1993, FLAMMABLE LIQUID N.O.S. (toluene and benzene), 3, III, ADR.
Are there specific requirements for the various shipping modes?	Check table 15 for special provisions. Consult a certified individual for direction if the shipment will include an air or sea segment.

NOTE: The *ADR* (chap 1.1.3.6) provides an exemption for some transport unit and driver requirements for small quantities of dangerous goods. Appendix D provides information on determining if the type and quantity planned for transport can meet the requirements for the small quantity exemption.

a. If the shipment is entirely by road, rail, or both, then this publication will be used to prepare and execute the transport.

b. If the shipment will use military air (including helicopter) or commercial air for part of the journey, packages and loads will be prepared according to AFMAN 24-204/TM 38-250 and International Air Transport Association (IATA) regulations. Separate air documentation and certification is required in addition to the road and rail documentation. While on the road or rail, all other requirements for documentation prescribed by this publication apply.

c. If a shipment will use sea or sea ferry for part of the journey, the packages and loads will be prepared according to the IMDG. Separate sea documentation and certification is required in addition to the road and rail documentation. While on the road or rail, all other requirements for documentation prescribed by this publication apply.

d. The checklists in appendix E will be used to ensure that the transportation HAZMAT is according to this publication and that the HAZMAT will be accepted by the receiving organization.

8. TRANSPORTATION DOCUMENTS

a. General.

(1) Under this publication, a transport document is required when HAZMAT is transported, regardless of the quantity involved. DD Form 836 is not authorized for European ground transportation, except as an additional document prepared for shipments that include a sea journey.

(2) Transport documents will be prepared in English. When possible, the document should also be prepared in the language of the forwarding country. Proper shipping names will be written in uppercase letters.

NOTE: AE Regulation 55-355/USNAVEUR Instruction 4600.7G/USAFE Instruction 24-204 provides policy for organizational-level transportation. For Government-sponsored transport beyond organization assets (for example, rail), DD Form 1384-2 is normally required. The required information may be written on the DD Form 1384-2, or the form may be supplemented by AE Form 55-4AA.

(3) If part of a continuous transport operation is by air or sea, then packages that are prepared, marked, and labeled, and containers that are placarded according to the applicable air or sea regulation, may be moved by road or rail. The transport document will be annotated according to AE Form 55-4AA, block 7. This allowance does not permit sea or air transport documents to be used on the road or rail. This allowance does not apply after the shipment reaches its destination, such as a supply facility. Subsequent road or rail movement must be according to this publication.

b. Road

(1) When moving HAZMAT by road, a HAZMAT transportation document is required. No specific HAZMAT transportation document exists; any existing document may be used, as long as it provides all required information.

(2) AE Form 55-4AA identifies all routine information required on the transport document. AE Form 55-4AA is not required, but serves as a checklist to ensure all important elements are considered. If AE Form 55-4AA is not used, the information in blocks 1 through 5 and the statements and signatures in blocks 9 through 11 are required for every transport. Statements in blocks 6 through 8 are required when applicable. When using an alternate form, the information required in block 5, columns c through f, are required to be in that exact order for each line entry. Other required information may be arranged at the discretion of the certifier.

(3) The instructions provided with the AE Form 55-4AA provide data-entry requirements.

c. Rail

(1). AE Form 55-355D is the basic rail transportation document used to identify the contents of single or multiple railcars. This form is used for dangerous and nondangerous goods. For dangerous goods, AE Form 55-4AA may be used as an attachment to the AE Form 55-355D. In all cases, this form or another rail company document (for example, AE Form 55-355A) must be used as a cover document to the AE Form 55-4AA.

(2) On the rail company document, the block or column identified as “RID” must be checked when dangerous goods are in or on the railcar.

(a) On the AE Form 55-355D, column 10 is the *RID* block to be checked. The block in column 10 is the only legal notification to the rail company that dangerous goods are being presented for transport as part of the material, railcar, container, or vehicle identified in that row. The AE Form 55-4AA by itself does not provide legal notification of dangerous goods. An electronic AE Form 55-355D is available at *http://www.21tsc.army.mil/1_tmca/downloads/excel_manifest.xls*.

(b) When AE Form 55-355A is used, block 32 is the *RID* block to be marked with an "X." The AE Form 55-4AA may be used as an attachment to the freight warrant.

(3) To use AE Form 55-4AA for rail transport, enter "SEE ATTACHED AE FORM 55-4AA" in an available row, check the *RID* block, and list the railcar, container, and vehicle identification so that a match can be made between documents.

d. Identifying Hazardous Waste in Transport Documents.

(1) If waste containing dangerous goods (other than radioactive wastes) is being carried, the word "WASTE" must be written before the U.N. number unless the word "WASTE" is part of the PSN (for example, "WASTE, 1230 METHANOL" or "WASTE, 1993 FLAMMABLE LIQUID, N.O.S. (toluene and ethyl alcohol)").

(2) In addition to rules established by transportation regulations, all European countries have established additional requirements for the transportation of waste. These requirements involve transportation permits, disposal authorizations, road-use restrictions, and training and qualification requirements for personnel involved in the process. Procedures vary among countries. Importing waste into or out of the European Community is regulated by a separate European Union regulation. Preparation for movement of waste must be coordinated with the servicing defense reutilization and marketing office and the servicing environment management office. In many cases, commercial contract-disposal services accomplish this process.

e. Identifying Salvage Packaging in Transport Documents. When dangerous goods are repacked in U.N.-certified salvage packaging, the words "SALVAGE PACKAGE" will be added after the description of the goods in the transport document.

f. Identifying Unclean Empty Packaging in Transport Documents. For empty packages, including gas cylinders, the PSN will be one of the following, which most closely describes the packaging: "EMPTY PACKAGING", "EMPTY RECEPTACLE", "EMPTY IBC", followed by the class number and the letters "ADR" or "RID". For example, empty uncleaned jerricans last containing JP8 transported by road would be written "EMPTY PACKAGING, 3, ADR".

g. Inland Waterway. In most cases, inland-waterway movements take place before or after a sealift. Units preparing a transport that includes an inland-waterway segment must contact the unit DGA or appointed traffic-management specialist trained in this mode for required documentation, packaging, and routing information.

9. REQUIREMENT FOR A COMMERCIAL VEHICLE CERTIFICATE OF APPROVAL FOR VEHICLES CARRYING CERTAIN DANGEROUS GOODS (*ADR*, CHAPTER 9.1)

When HAZMAT is handed over to a commercial carrier, the shipper is responsible for ensuring that the transporter has the proper equipment according to the following:

a. Type EX/II and Type EX/III vehicles must be used for transporting class 1 material (sec IV).

b. Type FL vehicles must be used to transport flammable liquids that have a flashpoint of 61 degrees Celsius or lower (except for UN 1202 material), flammable gases in tank containers that have a capacity of more than 3 cubic meters (3,000 liters), and flammable gases in fixed tanks that have a capacity of more than 1 cubic meter (1,000 liters).

c. Type AT vehicles will be used for tank transportation of HAZMAT that is not authorized for transport by type FL or OX vehicles. Type AT vehicles must be used when transporting this HAZMAT using tank containers that have a capacity of more than 3 cubic meters (3,000 liters) and in fixed or removable tanks that have a capacity of more than 1 cubic meter (1,000 liters).

10. U.S. FORCES HAZARDOUS MATERIAL VEHICLE CERTIFICATION PERMIT

U.S. Forces vehicles do not have a commercial type certification and annual permit. Each vehicle used to transport HAZMAT is required to have an original hazardous material vehicle certification permit (HVCP) (Unit-Level Logistics System (ULLS) Form 5988E for U.S. Army vehicles, and Air Force Form 1800 for Air Force vehicles) in the vehicle. The HVCP--

a. Will expire 1 year after the date of approval. The HVCP will not be valid for longer than that of the tank certification. For example, if the vehicle's annual service is completed on 15 February, the HVCP normally would be valid through 14 February of the following year. However, if the vehicle also has a tank certification that expires on 6 November, the HVCP will only be valid through 6 November.

b. Appendix C provides specific requirements on HVCPs.

11. *ADR* DRIVER CERTIFICATE

a. Drivers will carry their original *ADR* certificate when transporting HAZMAT, unless the transport is under the small quantity exemption (app D). Certificates issued through USAREUR are valid for 3 years and may be extended through refresher training and testing. Commercial certificates are valid for 5 years and may also be extended.

b. Local national employees who are not capable of participating in the existing English or German language U.S. Forces courses may achieve certification according to local host-nation requirements and procedures.

12. ACCIDENT INFORMATION SHEETS

Drivers are required to carry an AIS for each hazardous substance or article carried or for each group of dangerous goods that present the same danger to which the substance or article belongs. AISs for class 1.1 through 1.6 ammunition and explosives are available on-line at *http://www.per.hqusareur.army.mil/services/safetydivision/dangerousgoods/disclaimer.htm*. AISs for classes 2 through 9 are available at *https://www.dcslog.hqusareur.army.mil/datastor/umi.cfm*. Copies of AISs may also be obtained commercially using unit funds. Each AIS must be--

a. In a language that the driver can read and understand, the language of the *ADR* country where the load originated, the *ADR* countries through which the load will travel, and the *ADR* destination country.

b. Supplemented with one or more supplemental AISs if the basic AIS does not provide the full nature of the hazard or necessary details to protect the crew, the public, and the environment.

c. Used to determine specific protective equipment that will be carried on the transport unit. When personal protective equipment is specified, the equipment must be available for each member of the transport unit crew. Unit standing operating procedures (SOPs) must identify the specific personal protection equipment and training needed according to AE Regulation 385-7 and USAREUR Regulation 385-10.

d. Read and understood by the driver and vehicle crew before starting the transport.

e. Annotated with the U.N. numbers applicable to the sheet, the national emergence numbers for the route, and the unit's military and civilian emergency telephone number. This number should be staffed at all times with personnel who can obtain assistance in relation to the transport unit or the load.

13. WAIVERS

When a specific requirement exists to carry a waiver, a copy of the waiver will be obtained through local movement control units from the 1st TMCA. USAFE units may contact their local transportation movement office (TMO) for assistance.

14. MISCELLANEOUS EQUIPMENT FOR DRIVERS AND TRANSPORT UNITS

Transport units will have the following equipment:

a. The equipment required by the AIS and supplemental AISs.

b. Two chock blocks for each vehicle of a size appropriate to the weight of the vehicle and the diameter of the wheels.

c. Two self-standing warning signs (for example, reflective cones, warning triangles, flashing amber lights) that operate independently from the vehicle electrical system.

d. Reflecting warning vests for each member of the crew.

e. One spark-proof (explosion-proof for POL and flammable gas) flashlight for each member of the crew.

f. Two fire extinguishers on the transport unit. One fire extinguisher will be 5 pounds or 2 kilograms and will be used for cab or engine fires, the other will be 6 kilograms and be used for load, tire, and brake fires. Each fire extinguisher will be fitted with a seal verifying that it has not been used, and be marked with the date of the next inspection. If U.S. fire extinguishers are used, the minimum effectiveness rating will be 10-BC in addition to the weight requirements. The crew must know how to use the firefighting equipment.

15. DANGEROUS GOODS QUANTITIES FOR WHICH VEHICLE SUPERVISION IS REQUIRED

a. Class 1. Section IV provides information on class 1.

b. Classes Other Than Class 1. Table 15, column F (special provisions), identifies substances and quantities requiring supervision.

16. MIXED PACKING AND MIXED LOADING OF HAZMAT
This section provides information on what is commonly known as “compatibility” or “segregation” in other publications.

a. Mixed Packing of HAZMAT Inside U.N.-Certified Packaging. The rules on mixed packing are very restrictive and are not provided in this publication. Units will not attempt to mix different items or substances in the same U.N.-certified package. The DGA will be consulted if mixed packing is necessary.

b. Mixed Loading of Completed U.N. Certified Packages. When completed U.N.-certified packages are put together on or in a load device (for example, pallets, consolidation boxes, containers, vehicles, railcars), mixed loading of HAZMAT for road and rail is authorized according to table 3. Compatibility applies to the whole vehicle and whole railcar (except under the road small quantity exemption (app D)). Special provisions apply to class 1.

Table 3
Compatibility and Mixed Loading (notes)

REQUIRED PACKAGE LABELS (PRIMARY AND SUBSIDIARY) (table 15, column G)	1.1, 1.2, 1.3, 1.4, 1.5, 1.6	1.4S	2.1 2.2 2.3	3	4.1	4.1 + 1	4.2	4.3	5.1	5.2	5.2 + 1	6.1	6.2	7A, B, C	8	9
1.1, 1.2, 1.3, 1.4, 1.5, 1.6	R	R														Z
1.4S	R	X	X	X	X		X	X	X	X		X	X	X	X	X
2.1, 2.2, 2.3		X	X	X	X		X	X	X	X		X	X	X	X	X
3		X	X	X	X		X	X	X	X		X	X	X	X	X
4.1		X	X	X	X		X	X	X	X		X	X	X	X	X
4.1 + 1						X										
4.2		X	X	X	X		X	X	X	X		X	X	X	X	X
4.3		X	X	X	X		X	X	X	X		X	X	X	X	X
5.1		X	X	X	X		X	X	X	X		X	X	X	X	X
5.2		X	X	X	X		X	X	X	X		X	X	X	X	X
5.2 + 1											X					
6.1		X	X	X	X		X	X	X	X		X	X	X	X	X
6.2		X	X	X	X		X	X	X	X		X	X	X	X	X
7A, B, C		X	X	X	X		X	X	X	X		X	X	X	X	X
8		X	X	X	X		X	X	X	X		X	X	X	X	X
9	Z	X	X	X	X		X	X	X	X		X	X	X	X	X

NOTES:
R: Mixed loading within class 1 is restricted by the transportation compatibility chart for ammunition and explosives (table 4).
X: An "X" in an intersection indicates that packaged goods of these classes may be transported together in the same container, railcar, or vehicle, or on the same handling device or pallet.
Z: Class 9 lifesaving devices UN 2990 and UN 3072 may be shipped with class 1 material.

Table 4
Transportation Compatibility Chart for Ammunition and Explosives (notes 1 through 4)

Compatibility Group	A	B	C	D	E	F	G	H	J	L	N	S
A	X											
B		X		note 5								X
C			X	X	X		X				notes 6 and 7	X
D		note 5	X	X	X		X				notes 6 and 7	X
E			X	X	X		X				notes 6 and 7	X
F						X						X
G			X	X	X		X					X
H								X				X
J									X			X
K	Not authorized for transport											
L										note 8		
N			notes 6 and 7	notes 6 and 7	notes 6 and 7						note 6	X
S		X	X	X	X	X	X	X	X		X	X

NOTES:
1. An "X" in an intersection indicates that these groups may be transported together.
2. Only class 9 UN 2990 and UN 3072 lifesaving devices may be shipped with class 1 material. All ammunition and explosives except for hazard class and division 1.4S will not be shipped in one railcar or vehicle with any other hazard class.
3. Trash will not be transported with ammunition and explosives.
4. This chart also applies between containers when more than one container is transported on the same transport unit.
5. Ammunition and explosives in compatibility group B will not be shipped with ammunition and explosives in compatibility group D unless the packaging design is approved by a competent authority, or by a body designated by it. The packaging must be such that there is no danger of detonation transmission from compatibility group B to compatibility group D.
6. Hazard class and division 1.6N may be transported together if it can be proven by test or analogy that no propagation is possible between items. Otherwise they should be treated as hazard class and division 1.1.
7. When articles of compatibility group N are carried with articles of compatibility group C, D, or E, the articles of compatibility group N should be considered as compatibility group D.
8. Packages containing substances or articles of compatibility group L may be loaded only on one vehicle with packages containing the same substances or articles of compatibility group L.

17. PACKAGING

a. Every package containing HAZMAT must be U.N.-certified unless specified otherwise in this publication. A certified package is identified by a preprinted code, starting with the U.N. packaging symbol, as shown in the *ADR*, part 6.1.3.1, at *http://www.unece.org/trans/danger/publi/adr/adr2001/English/Chap6-1.pdf*.

b. This publication does not cover U.N.-certified IBCs or the new U.N.-certified large packagings. Servicing DGAs can provide assistance with large-volume packages.

c. Package selection is based on the P codes in table 15, column E; and in the P code tables (tables 5 through 10).

(1) For packaging classes 3 through 9, except class 7, all HAZMAT must be transported in U.N.-certified packaging corresponding to the type of packaging authorized in the individual P code table.

(2) For packaging class 1, the original or similar packaging will be used. Failure to use the same type packaging may void the hazard classification code or packaging exemption, which makes the material illegal to transport.

(3) Class 2 pressure vessels are nationally certified and do not have a P code or a U.N. certification.

(4) For class 7, standard serviceable military items authorized for transport under this publication are those that are classified under UN 2910 and UN 2911. As such, they normally come with their own authorized packaging, which is usually the case provided by the manufacturer. Additional U.N.-certified packaging is not required. To ship damaged items, including surface-contaminated objects, specific packaging and shipping instructions must be received from the receiving activity. Section VI provides more information on packaging class 7.

d. The P codes in tables 5 through 10 identify special provisions and different packaging methods allowed for a substance. In general, there are three packaging methods used:

(1) Single Packaging. This method is made up of a single outer U.N.-certified package, with the substance or article placed directly inside, with any necessary protective or absorbent material (for example, a U.N.-certified jerrican filled with JP8, where the jerrican is the only package).

(2) Combination Packaging. This method uses an outer U.N.-certified packaging and a suitable inner package or container (for example, when four 1-gallon light metal paint cans (not U.N.-certified) are packaged inside an authorized U.N.-certified fiberboard box). The entire combination of packaging becomes certified.

(3) Composite Packaging. This method is a certified system of packaging made up of two components that are not meant to be separated. For example, battery acid may come in a U.N.-certified composite package, which is made up of an outer fiberboard box and an inner plastic bag. The box provides both shipping protection and functional support for the bag. The two are not meant to be separated.

e. The *ADR*, part 6.1.2 (*http://www.unece.org/trans/danger/publi/adr/adr2001/English/Chap6-1.pdf*), defines the codes that manufacturers use to designate types of certified HAZMAT packagings.

Table 5
P001 Packing Instructions and Special Provisions

UN 1791	Restriction: Packing group II must be in a vented package.
UN 1133, 1263, and 1866	Allowance: Substances in packing groups II and III may be carried in quantities of 5 liters or less (1.3 gallons) per package in metal or plastic packaging that is not required to be U.N.-certified, provided they are transported as a secured palletized load or in a pallet box.

Single Packaging				
		Maximum Capacity in Liters		
Drums	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	1A1 steel nonremovable head	250	450	450
	1B1 aluminum nonremovable head	250	450	450
	1N1 metal (other than steel or aluminum) nonremovable head	250	450	450
	1H1 plastic nonremovable head	250	450	450
Jerricans	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	3A1 steel nonremovable head	60	60	60
	3B1 aluminum nonremovable head	60	60	60
	3H1 plastic nonremovable head	60	60	60
Combination Packaging				
		Maximum Net Weight in Kilograms		
Inner Packaging	**Outer certified packaging**	**Packing Group I**	**Packing Group II**	**Packing Group III**
Allowed inner	**Type: Drums**			

Table 5
P001 Packing Instructions and Special Provisions

packaging with maximum quantity in liters per inner package: Glass: 10 Plastic: 30 Metal: 40	1A2 steel removable head	250	400	400
	1B2 aluminum removable head	250	400	400
	1N2 metal (other than steel or aluminum) removable head	250	400	400
	1H2 plastic removable head	250	400	400
	1D plywood	150	400	400
	1G fiberboard	75	400	400
	Type: Box	**Packing Group I**	**Packing Group II**	**Packing Group III**
	4A steel	250	400	400
	4B aluminum	250	400	400
	4C1 and 4C2 natural wood	150	400	400
	4D plywood	150	400	400
	4F reconstituted wood	75	400	400
	4G fiberboard	75	400	400
	4H1 expanded plastic	60	60	60
	4H2 solid plastic	150	400	400
	Type: Jerrican	**Packing Group I**	**Packing Group II**	**Packing Group III**
	3A2 steel removable head	120	120	120
	3B2 aluminum removable head	120	120	120
	3H2 plastic	120	120	120

Composite Packaging

Type package	**Maximum Capacity in Liters**		
	Packing Group I	**Packing Group II**	**Packing Group III**
6HA1 or 6HB1 plastic inner receptacle with outer steel or aluminum drum	250	250	250
6HG1, 6HH1, or 6HD1 plastic inner receptacle with outer fiberboard, plastic or plywood drum	120	250	250
6HA2, 6HB2, 6HC, 6HD2, 6HG2, or 6HH2 plastic inner receptacle with outer steel or aluminum crate or box, or plastic inner receptacle with outer wooden, plywood, fiberboard, or plastic box	60	60	60
6PA1, 6PB1, 6PG1, 6PD1, 6PH1, or 6PH2 glass inner receptacle with outer steel, aluminum, fiberboard, plywood, solid plastic, or expanded plastic drum	60	60	60
6PA2, 6PB2, 6PC, 6PG2, or 6PD2 glass inner receptacle with outer steel or aluminum crate or box, or with outer wooden or fiberboard box, or with outer wicker hamper	60	60	60

Table 6
P002 Packing Instructions and Special Provisions

There are no special provisions for U.N. numbers in table 15. For the purposed of this publication, materials marked with an asterisk (*) will not be used if the contents can turn into liquid during transport.

Single Packaging				
		Maximum Net Mass in Kilograms		
Drums	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	1A1 steel nonremovable head	400	400	400
	1A2* steel removable head	400	400	400
	1B1 aluminum nonremovable head	400	400	400
	1B2* aluminum removable head	400	400	400
	1N1 metal other than steel or aluminum nonremovable head	400	400	400
	1N2* metal other than steel or aluminum removable head	400	400	400
	1H1 plastic nonremovable head	400	400	400
	1H2* plastic removable head	400	400	400
	1G* fiberboard	400	400	400
	1D* plywood	400	400	400
Jerrican	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	3A1 steel nonremovable head	120	120	120
	3A2* steel removable head	120	120	120
	3B1 aluminum nonremovable head	120	120	120
	3B2* aluminum removable head	120	120	120
	3H1 plastic nonremovable head	120	120	120
	3H2* plastic removable head	120	120	120
Boxes	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	4A* steel	Not allowed	400	400
	4B* aluminum	Not allowed	400	400
	4C1* natural wood	Not allowed	400	400
	4D* plywood	Not allowed	400	400
	4F* reconstituted wood	Not allowed	400	400
	4C2* natural wood with sift proof walls	Not allowed	400	400
	4G* fiberboard	Not allowed	400	400
	4H2* solid plastic	Not allowed	400	400
Bags	**Type**	**Packing Group I**	**Packing Group II**	**Packing Group III**
	5H3*, 5H4*, 5L3*, 5M2*	Not allowed	50	50

Table 6
P002 Packing Instructions and Special Provisions

Combination Packaging				
		Maximum Total Package Weight in Kilograms		
Inner Packaging	**Outer certified packaging**	**Packing Group I**	**Packing Group II**	**Packing Group III**
Allowed inner packaging with maximum net weight in kilograms per inner package: Glass: 10 Plastic:* 50 Metal: 50 Paper:** 50 Fiber:** 50 *Must be sift-proof **Must be sift-proof and will not be used for packing group I	**Type: Drums**			
	1A2 steel	400	400	400
	1B2 aluminum	400	400	400
	1N2 metal other than steel or aluminum	400	400	400
	1H2 plastic	400	400	400
	1D plywood	400	400	400
	1G fiberboard	400	400	400
	Type: Box	**Packing Group I**	**Packing Group II**	**Packing Group III**
	4A steel	400	400	400
	4B aluminum	400	400	400
	4C1 natural wood	250	400	400
	4C2 natural wood with sift proof walls	250	400	400
	4D plywood	250	400	400
	4F reconstituted wood	125	400	400
	4G fiberboard	125	400	400
	4H1 expanded plastic	60	60	60
	4H2 solid plastic	250	400	400
	Type: Jerrican	**Packing Group I**	**Packing Group II**	**Packing Group III**
	3A2 steel	120	120	120
	3B2 aluminum	120	120	120
	3H2 plastic	120	120	120

Composite Packaging			
Type Package	**Maximum Capacity in Liters**		
	Packing Group I	**Packing Group II**	**Packing Group III**
6HA1, 6HB1, 6HG1,* 6HD1,* or 6HH1 plastic inner receptacle with outer steel, aluminum, plywood, fiber, or plastic drum	400	400	400
6HA2, 6HB2, 6HC, 6HD2,* 6HG2,* or 6HH2 plastic inner receptacle with outer steel or aluminum crate or box or, plastic inner receptacle with outer wooden, plywood, fiberboard, or plastic box	75	75	75
6PA1, 6PB1, 6PG1,* or 6PD1* glass inner receptacle with outer steel, aluminum, fiberboard or plywood drum	75	75	75
6PA2, 6PB2, 6PC, 6PG2,* or 6PD2* glass inner receptacle with outer steel or aluminum crate or box, or with outer wooden or fiberboard box, or with outer wicker hamper	75	75	75
6PH2 or 6PH1 glass inner receptacle with outer solid plastic or expanded plastic packaging	75	75	75

Table 7 **P302 Packing Instructions (note)**
The following combination packaging process is authorized:
• The combination package type is chosen based on the kit's base material (as opposed to the activator). The MSDS provides kit base component material.
• The activator will be separately packaged in an inner packaging.
• All components may be placed in the same outer U.N. package if the components will not react dangerously with each other.
• The activator maximum quantity per inner package is 125 milliliters if liquid, or 500 grams per inner package if solid.
NOTE: This only applies to kits, UN 3269

Table 8 **P408 Packing Instructions**
• For cells, the certified outer packaging conforming to packing group II with sufficient cushioning material to prevent contact between cells, contact with the outer packaging, and movement within the packaging during transport
• Batteries-- a. Will be protected from short circuit. b. May be transported unpackaged or in protected enclosures (such as crates) that are not required to be U.N.-certified. c. Will not be transported in a way that terminals are used to support the weight of other batteries or any other materials packaged with the batteries.
NOTE: This only applies to UN 3292.

Table 9 **P600 Packing Instructions (note)**
• Outer packagings (1A2, 1B2, 1N2, 1H2, 1D, 1G, 4A, 4B, 4C1, 4C2, 4D, 4F, 4G, or 4H2) meeting the packing group II performance level. These articles must be individually packaged and separated from each other using partitions, dividers, inner packagings, or cushioning material to prevent inadvertent discharge. • Maximum net mass: 75 kilograms.
NOTE: This only applies to UN 1700, 2016, and 2017.

Table 10 **P903 Packing Instructions (note)**
• Batteries will be protected from short circuit.
• Certified packaging conforming to packing group II will be used.
• When lithium cells or batteries are packed with equipment-- a. The cells or batteries will be packed in inner packing group II fiberboard packagings. b. The equipment will be packed in strong outer packaging in such a manner that accidental operation is prevented during carriage.
NOTE: This only applies to UN 3090 and UN 3091.

18. PACKAGE SELECTION

Normally, HAZMAT is already packaged in suitable U.N.-certified packaging. To know how to properly package the substance or article requires an understanding of the relationship between the item packing group (table 15, column I), the packaging methods allowed in the packaging instructions (P code from table 15, column E), the type of HAZMAT, packaging material on-hand, and the code process for the U.N. package code. The U.N. package code varies slightly between certified packagings directly in contact with solids (materials, articles, or inner packages) and packagings in direct contact with liquids.

a. Solids. Packaging for solids includes the individual outer packaging for solid materials (such as bleaching powder) and the outer packaging for articles (such as batteries). It also includes combination packaging where the outer U.N.-certified packing surrounds one or more inner packagings, such as glass or plastic jugs. In all "solid" type packaging, no liquid is in direct contact with the outer U.N.-certified packaging.

(1) For solid packaging, the U.N. package code would be similar to the one in figure 1. The first four elements are the most important to the packer.

4G/Y19/S/94/USA/M4280

- 4G is the package type (a fiberboard box in this case).
- Y represents the packing-level code (table 11).
- 19 is the maximum allowable package gross mass in kilograms (19 kilograms in this case).
- S identifies the package as designed for solids.
- 94 is the year of manufacture.
- USA is the competent authority that certified the packaging.
- M4280 is a registration code assigned to the manufacturer.

Figure 1. U.N. Package Code for Solids

(2) Once the P code has been identified from table 15, the packer will choose a packing method (single, combination, or composite). The packer then checks those sections of the P-code tables to see which methods are allowed. Once the packing method is chosen, the packer will choose a package type under that method. The package type is the packer's choice and is usually based on the materials on-hand.

(3) In the P-code tables, reading across the line for the chosen package type, quantity limits are shown based on the packing group. These values will not be exceeded.

(4) The packing-level codes allowed for each packing group can be determined using table 11. For example, if a packer had a substance in packing group II, table 10 shows that package level code X or Y may be selected.

Table 11
Packing-Level Code Relationships

Packing Group	Package-Level Code Letter Allowed for Use	Relative Danger Level
I	X	High
II	X or Y	Medium
III	X, Y, or Z	Low

(5) The packer will check the quantity of what will be put in the package against the package's certified maximum quantity. In figure 1, the certified package gross weight is 19 kilograms. In this case, the packer must ensure that the completed package weighs no more than 19 kilograms.

(6) Once the steps in (1) through (5) above are accomplished, the solid may be packaged.

b. Liquids.

(1) For liquids poured directly into the certified packaging, the U.N. package code would be similar to the one in figure 2. The first four elements are the most important to the packer.

1H1/X1.4/150/99/NL/VL826

- 1H1 is the package type; in this case a plastic nonremovable head drum.
- X represents the packing-level code (table 11).
- 1.4 is the maximum allowable liquid specific gravity (1.4 in this case) (note 1).
- 150 identifies the maximum vapor pressure (150 kilopascal (kPa) in this case) (note 2).
- 99 is the year of manufacture.
- NL is the competent authority that certified the packaging.
- VL826 is a registration code assigned to the manufacturer.

NOTES: 1. If no specific gravity value is included in the package code, the maximum is assumed to be 1.2. (For reference, the specific gravity of water is 1.0. A larger number is a heavier than the same amount of water.)
2. 14.5 psi = 1 bar = 100 kPa.

Figure 2. U.N. Package Code

(2) Once the P code has been identified from table 15, the packer will choose a packing method (single, combination, or composite). The packer then scans those sections of the P-code tables to see what methods are allowed. Once the packer chooses a packing method, the packer chooses a package type under that method. The packer's choice most likely will be influenced by materials on hand.

(3) In the P-code tables, reading across the line for the chosen package type, quantity limits are shown based on the packing group.

(a) Knowing the packing group (table 15, column I), the packer can identify the maximum quantity identified in the P-code tables. The packer will ensure that the maximum quantity limit is not exceeded.

(b) Using the material safety data sheet (MSDS) or other information source, the packer will identify the specific gravity of the substance and the vapor pressure in kPa. The packaging that has equal or greater values for each of those values will be chosen. In figure 2, the specific gravity maximum for the package is 1.4 and the vapor pressure maximum is 150 kPa.

NOTE: If no specific-gravity value is included in the code, the maximum specific gravity is assumed to be 1.2. For example, 3H2/Y/150/98/USA/PCA345 is a valid code for a liquid packaging that has a maximum specific gravity of 1.2.

(4) Using table 11, the packer will identify the packing-level codes allowed for the packing group. For example, if the packer had an item in packing group I, the only choice is X-coded packaging.

(5) Once the steps in (1) through (4) above are accomplished, the liquid may be packaged.

19. ASSOCIATED PACKAGING REQUIREMENTS AND NOTES

a. For shipments that will also travel by sea or air for part of the journey, the packing requirements of international sea or air regulations and AFMAN 24-204/TM 38-250 will be used.

b. Before beginning the packaging operation, it must be determined if material to be packaged will adversely affect the package type (for example, if the material will weaken the package or adversely react with the packaging material). It may be necessary to consult the package manufacturer directly.

c. The special packing provisions in the P-code tables must be reviewed to determine if special conditions or allowances apply to the item or substance being packaged.

d. When filling liquids into packaging, the package must not be filled to the top. Enough free space must remain for expansion. Every liquid has its own free-space requirement. If the exact free-space requirement cannot be determined, at least 10 percent of the package volume must be left empty.

e. Inner packings will be packed in their outer packing in such a way that they cannot break, be punctured, or leak contents into the outer packaging during normal transport. This requires a sufficient amount of compatible cushioning and absorbent. The requirements of AFMAN 24-204/TM 38-250 are provided in (1) through (6) below to ensure commonality in transport.

(1) Each package containing a liquid in packing group I must include sufficient absorbent cushioning material to absorb the entire contents of all inner containers.

(2) Each package containing a liquid in packing group II must include sufficient absorbent cushioning material to absorb the contents of the inner container with the largest liquid quantity.

(3) Absorbent material is not required for liquids in packing group III.

(4) When absorbent cushioning material is required and the outer packaging is not liquid-tight, a means of containing the liquid must be used in case of leakage. This may be a leakproof liner, plastic bag, or other equally efficient means of containment. When securely closed polyethylene bags that are at least 4 millimeter thick are used to contain the cushioning and hazardous liquid, the bags must be of sufficient size to form a liner for the exterior container, or a bag for the interior container.

(5) Absorbent cushioning material is not required when the outer package has a U.N. package code that the P-code table allows as a single package for the material being transported.

(6) Table 12 will be used as a guide to determine the amount of vermiculite or diatomaceous earth (absorbent cushioning material) necessary for cushioning liquid HAZMAT. The amounts provided are minimums. When measuring cushioning materials, settling during transport will be considered and enough material will be used to compensate for it. Other equivalent, compatible cushioning and absorbent materials may be used to meet the requirement. For package volumes not in table 12, an estimate will be made using the values provided under the chosen absorbent type.

f. On completion of the packaging process, no HAZMAT will be on the outside of the package.

Table 12
Absorbent Cushioning Material Guidance

Maximum liquid quantity	Vermiculite in Centimeters: Type I, Grade 3 (fine) Type I, Grade 4 (super fine)		Diatomaceous earth in centimeters	
	On sides	On top and bottom	On sides	On top and bottom
0.5 liter (1 pint)	2.6	3.9	5.1	11.5
1.0 liter (1 quart)	2.6	5.1	5.1	14
3.8 liters (1 gallon)	3.9	6.4	10.2	15.3
7.6 liters (2 gallons)	5.1	10.2	11.5	24.2
19.0 liters (5 gallons)	7.7	15.3	15.3	34.3
24.6 liters (6.5 gallons)	8.9	16.6	17.8	36.9
49.3 liters (13 gallons)	10.2	19.1	20.4	39.4
56.8 liters (15 gallons)	11.5	20.4	24.2	45.8

20. SHIPPER MARKING AND LABELING FOR U.N. PACKAGES
Marking is information written on the package.

a. Marking Packages. Unless otherwise specified in the special provisions (table 15, column F), each completed package must show all U.N. numbers for the dangerous goods inside the package (for example, "UN 1223"). U.N. numbers should be clearly written near the labels. If the package meets DOD marking requirements of Military Standard (MIL-STD) 129P, the package is acceptable under European road and rail transport. However, the package must meet the labeling requirements of this publication.

b. Labeling Packages. Effective 1 July 2001, European road and rail class 1 through 9 label configurations are the same as the 2001 IATA and IMDG Code label configurations. Appendix G provides information on danger labels.

(1) Danger labels on packages will be diamond-shaped and measure 10-by-10 centimeters. Danger labels must be applied "diamond-on-point." If a package is very small, the label may be smaller provided that it remains clearly visible. Adhesive labels or labels preprinted on the package meet this requirement. Tape is not acceptable for applying labels. If no other way to label the package is available, the labels may be placed on a securely attached tag or by other suitable means that meet the intent of the requirement.

(2) Primary and subsidiary danger labels must have the label number in the bottom corner of the diamond. Section IV provides additional class 1 label completion requirements.

(3) All required labels will be placed next to each other.

(4) If mixed packing is used, the danger labels required for each substance or article in the package must be applied to the outside of the package. This includes the orientation label (up arrows).

(5) All packages containing internal liquid filled receptacles that cannot be seen from the outside must have the rectangular orientation label (label 11) on the outside on two opposite sides. Table 15, column F, shows "(11)" for this purpose, but the need for the label depends on the type of packaging.

21. PALLET AND OTHER OVERPACK MARKING AND LABELING
Sealed U.N.-certified packages may be placed inside crates, larger boxes, pallets, and other convenience-handling devices. These devices do not require a U.N. certification. However, all U.N. numbers and danger labels on the packages will be applied on the outside of the pallet or overpack. This includes orientation label 11 ("up arrows"). If all representative markings of the inner U.N. packages remain clearly legible from the outside (for example, if clear shrinkwrap is used to wrap the package), no further marking or labeling is required on the overpack.

22. CONTAINERS

a. Structural Serviceability. Containers, portable tanks, and tank containers will not be used to carry dangerous goods unless the container or the frame of the portable tank or tank container meets the inspection requirements of DOD 4500.9-R-1, volume 1, chapter 5; and Military Handbook 138. In general terms, the inspection is for structural serviceability, meaning that the container is free from significant defects in top and bottom side rails, door sill and header, floor cross members, corner posts, corner fittings, walls, floors, and doors. Container inspectors must be trained and certified.

b. Construction Requirements. Containers will also meet any special requirements concerning the body of the vehicle required by the type of HAZMAT they hold.

23. LOADING, STOWAGE, AND UNLOADING

a. Loading will not be carried out if an inspection of the transport documents and a visual inspection of the vehicle, container, or railcar and its equipment show noncompliance with this publication or international regulations.

b. The release of a loaded vehicle will not be allowed if the vehicle crew is not in compliance with this publication.

c. Unloading will not be carried out if the inspections in subparagraph a above reveal deficiencies that may affect the safety of the unloading.

d. Before loading HAZMAT onto a railcar or vehicle or into a container, the cargo compartment must be clean and inspected for damage and foreign objects (for example, nails, blocking material).

e. The load components must be properly stowed on the railcar, vehicle, or container and secured by appropriate means to prevent the load from moving vertically, laterally, and horizontally. The load may be protected by the use of sidewall fastening straps, sliding slatboards, and adjustable brackets; airbags; antislide locking devices; and standard blocking and bracing. Except for containers, the load is considered sufficiently protected if each layer of the whole loading space is completely filled with packages. Containers require vertical restraint. Where required (such as with class 1), approved military load drawings will be followed.

f. All provisions that relate to the loading and unloading of vehicles and railcars and to the stowage and handling of substances will also apply to the loading, stowage, and unloading of containers on and off vehicles and railcars.

g. If the loader is not provided with a maximum filling volume, the volume will not exceed 90 percent of the tank capacity.

h. The driver or driver's assistant will not open packages containing dangerous substances when accomplishing transport duties.

i. During unloading, if some of the contents are found to have leaked, the vehicle, railcar, or container will be cleaned as soon as possible and will not be reloaded before being cleaned.

j. Vehicles, railcars, and containers that have been loaded with dangerous substances in bulk will be properly cleaned before reloading unless the new load consists of the same dangerous substance as the preceding load.

k. Smoking and open flame are prohibited inside and in the vicinity of railcars, vehicles, and containers during loading and unloading operations.

l. Military vehicles with an expired HVCP or tank certification are considered deadlined for transporting HAZMAT and will not be used to transport dangerous goods of any kind until the vehicle is cleared through the European Compliance Inspection Program (ECIP) (app C).

24. PLACARDING AND ORANGE RECTANGULAR WARNING PLATES FOR ROAD TRANSPORT UNITS, RAILCARS, AND CONTAINERS

a. Placards and Warning Plates. Placards and orange rectangular warning plates that do not relate to the actual load must be completely covered or removed. The correct placards and orange rectangular warning plates will remain visible until the container, vehicle, or railcar is empty and clean ("purged").

b. Containers.

(1) Containers, including but not limited to MILVANS and commercial transport containers, must be placarded on all four sides. The placard must show for each primary and subsidiary hazard label in the load, regardless of the quantity.

(2) Bulk containers and tank containers are not routinely used and are not covered in this publication. If a bulk container or tank container must be offered for transport, the local DGA should be contacted for assistance.

c. Road Transport Units.

(1) Orange Rectangular Warning Plates. All road-transport units transporting dangerous goods, whether packaged, in tanks, or in containers, must show two orange rectangular warning plates (app G) on the front and rear. The plates will be clearly visible and securely affixed to the vehicle with the long side mounted parallel to the road.

(a) For fuel-tank vehicles, section V provides the possible configurations for orange rectangular warning plates. For tank vehicles or transport units transporting dangerous goods other than those identified in section V, or tank containers, the servicing DGA should be contacted for proper plate configuration.

(b) All other transport units transporting dangerous goods (including containers), except those operating under the small quantity exemption, will display two plain orange rectangular warning plates (app G) mounted on the front and rear of the transport unit.

(c) Plates will remain on the tank vehicle or transport unit until the tank is purged.

(d) Plates and placards will remain on the transport unit until the packaged dangerous goods are removed and the load compartment is clean of all hazardous residue.

(e) Plates on transport units carrying containers or tank containers will remain on the transport unit until the placarded containers are removed.

(2) Diamond-Shaped Placards.

(a) Placards are in addition to required orange warning plates. Placards are applied to the specific vehicle in the transport unit that contains the dangerous goods requiring placarding.

(b) Placards are 250-millimeter-square labels of the same configuration shown in appendix G.

(c) If the vehicle is transporting a properly placarded container, no additional placarding is required on the vehicle.

(d) All vehicles transporting class 1 goods will be placarded according to section IV.

(e) Tank vehicles and transport units, including those carrying demountable tanks, must be placarded according to section V.

(f) Under current road regulations, no packaged goods of items in table 15 require placards on the transport unit during shipment.

(g) Placards will remain on the tank vehicle or vehicle carring the tank until the tank is removed or the tank is clean and purged.

(h) Placards will remain on the vehicle until the packaged dangerous goods are removed and the load compartment is clean of all hazardous residue.

d. Railcars.

(1) Railcar marking and placarding is the responsibility of the loader.

(2) Rail-tank cars are not normally offered for shipment and are not covered in this publication. If a rail-tank car must be offered for shipment, the servicing DGA should be contacted for marking and placarding instructions.

(3) Every railcar that is carrying dangerous goods, regardless of quantity or whether the goods are carried inside a road vehicle or container, will be placarded with placards representing the primary and subsidiary hazard labels of each dangerous good on board. Table 15, column H, prescribes placard requirements for classes 2 through 9. Section IV prescribes additional placard requirements for class 1. Rail placards are 250-millimeters square and of the same configuration as shown in appendix G. Placards are placed on both sides of the railcar.

(a) Placards 13 and 15 indicate specific railcar handling safety instructions to train crews. Placard application is the responsibility of the loader.

(b) Railcars transporting containers with placards visible from both sides of the railcar, do not require additional placarding on the railcar, except for placards 13 and 15, if required.

(c) Railcars carrying placarded road-tank vehicles with the placards visible from both sides of the railcar, do not require additional placarding on the railcar.

(d) Railcars carrying road vehicles placarded for class 1 with the placards visible from both sides of the railcar, do not require additional placarding on the railcar, except for placards 13 and 15, as required.

(4) Railcars that are transporting other nonplacarded vehicles loaded with dangerous goods, including transport units operated under the small quantity exemption, require placards on the railcar according to (3) above.

NOTE: Table 13 provides required and optional configurations for orange plates and diamond placards.

Table 13
Required and Optional Configurations for Orange Plates and Diamond Placards (note)

Load Description	Plain (Neutral) Orange Rectangular Plates	Numbered Orange Rectangular Plates	Diamond Placards
Package Goods			
Class 1	Front and rear of transport unit	N/A	Left, right, and rear of transport vehicle
Classes 2 through 6, 8, and 9	Front and rear of transport unit	N/A	N/A
Class 7	Front and rear of transport unit	N/A	None. However, packages requiring vehicle placarding may not be transported with a U.S. Forces *ADR* certificate.
Packaged goods under the small quantity exemption	N/A	N/A	N/A
Tanks and Bulk			
Tank or bulk (primary method)	Front and rear of transport unit	Left and right of each different tank compartment	Left, right, and rear of transport vehicle
Tank or bulk (*ADR* alternative for only one hazard identification number (HIN)/U.N. number)	N/A	Front and rear of transport unit	Left, right, and rear of transport vehicle
Tank (*ADR* alternative for mix of UN 1202, 1203, 1223, and 1863)	N/A	Plate referring to the lowest flashpoint HIN and U.N. number on the front and rear of transport unit	Left, right, and rear of transport vehicle
Containers			
Tank or bulk	Front and rear of transport unit	Both sides of the container	All four sides of the container
Not tank or bulk	Front and rear of transport unit	N/A	All four sides of the container for each label inside, except 11

NOTE:
Transport unit = truck or truck with trailer
Vehicle = truck or trailer as individual parts of a transport unit

25. PARKING BRAKE AND VEHICLE ENGINE

a. Vehicle parking brakes will be set and the vehicle chocked whenever parked.

b. The transport unit engine will be turned off while loading and unloading HAZMAT. The exception is where the vehicle design allows the vehicle's mechanical handling equipment to be used.

26. PROCEDURES FOR VEHICLE BREAKDOWN AND MINOR ACCIDENTS
Individual and supplemental AISs prescribe required emergency actions for the vehicle crew. This paragraph provides information on the actions that vehicle crews should take in case of a disabled vehicle or minor vehicle accident. These actions are not in priority order.

a. When possible, park the vehicle clear of traffic and as far away as possible from inhabited buildings and populated areas. “Chock” the vehicle.

b. Turn on hazard-warning lights.

c. Turn off electrical circuits on the vehicle.

d. Warn other traffic by placing warning devices (for example, reflective cones or triangles) approximately 100 meters in front and behind the vehicle on secondary roads. On autobahns or divided highways with at least four lanes, the warning devices will be placed behind the vehicle, one at 100 meters and the other at 200 meters. These distances may vary based on local conditions.

e. Provide first aid if people are injured.

f. Watch for situations where potential fire or other circumstances could endanger the load, and take actions necessary to protect the public and the load.

g. Contact appropriate authorities of the host country in case of an accident or to request help if necessary.

h. When emergency personnel arrive, give them the AIS and the shipping documents.

i. Contact the organizations listed on the AIS or transport document, as appropriate, for assistance.

j. Carry out minor repairs as long as they present no danger of fire or other hazards to the cargo. Vehicles may be moved to a safe place for load transfer to a relief vehicle. Vehicles loaded with dangerous goods, including unpurged tanks, will not undergo major repair in a maintenance facility.

k. If the vehicle cannot be fixed and the dangerous goods must be cross-loaded to another vehicle, use the following procedures:

(1) Contact the home-station dispatcher for assistance if the vehicle is within a 1-hour drive from the home station.

(2) If no other contact is possible, contact the USAREUR command or USAFE MAJCOM operations center for assistance if the vehicle is more than a 1-hour drive from the home station. Provide the exact location, the description of the items loaded on the vehicle (see shipping document for details), the vehicle size, and the required material handling equipment (MHE) and load-securing devices needed to crossload and secure the cargo onto another vehicle.

l. Make every effort to clear the site as quickly as possible and to protect U.S. Government property within the constraints of safety and security. Keep people at the distance stated in the AIS.

m. Except in emergencies, do not transfer loads unless the relief vehicle and its driver meet the requirements for transporting HAZMAT. The relief vehicle must have a valid HVCP. The driver must have a license for the vehicle pulling the load. Pending the arrival of an *ADR*-certified driver, drivers with a vehicle license but without an *ADR* certificate may only drive the load to the nearest safe parking area. If the vehicle is towed or carried on another recovery vehicle, the tow driver is not required to have an ADR certificate. Load accountability will be maintained by transferring all shipping documents with the load.

SECTION III
HAZMAT TABLE FOR CLASSES 2 THROUGH 9

27. GENERAL

a. This section provides information necessary for documenting and transporting common class 2 through 9 HAZMAT by the U.S. Forces in Europe.

b. Table 15 does not include every substance or article listed in the corresponding European regulations for the transport of dangerous goods by surface (rail and road). If a hazardous item or substance is not listed in the table, the item or substance will not be transported without the direction and approval of a certified individual.

c. The Ammunition and Explosives Matrix (app H) provides similar data for class 1.

28. HAZMAT TABLE

a. General. Table 14 provides an alphabetical list of common names (not necessarily PSNs) as a cross-reference to table 15. All substances listed in the table are named in the various hazard-class lists in the *ADR* and the *RID*.

Table 14
Alphabetical List of Common Names (note)

Name	U.N. Number
acetylene gas bottle	1001
acetylene, dissolved	1001
adhesive, not toxic not corrosive	1133
adhesives	1133
aerosol can	1950
air, compressed	1002
amines, corrosive liquid	2735
ammunition and explosives (see the Ammunition and Explosives Matrix (app H))	N/A
argon gas bottle	1006
argon, compressed	1006
battery fluid, acid	2796
battery fluid, alkali	2797
battery, acid	2794
battery, alkali	2795
battery, dry cell (potassium hydroxide)	3028
battery, liquid nonspillable	2800
battery, lithium	3090
battery, lithium installed in equipment	3091
battery, sodium	3292
butane	1965
butane in a cylinder	1965
carbon dioxide	1013
carbon dioxide (CO2) gas bottle	1013
caustic alkali liquid	1719
cleaning compound containing dichloromethane	1593
compressed air bottle	1002
corrosive flammable liquid	2929
corrosive liquid	1760
corrosive liquid, inorganic acid	3264
CS (tablets only)	2017
dichloromethane	1593
diesel fuel	1202
dry bleaching powder	2208
DS2	1760 or 2079
empty packaging	See small quantity exemption (app D)
ethyl methyl ketone	1193
fire extinguisher	1044
fire extinguisher containing compressed or liquefied gas	1044
fluorosilicic acid	1778
gasoil	1202

Table 14
Alphabetical List of Common Names (note)

Name	U.N. Number
gasoline	1203
heating oil light	1202
helium gas bottle	1046
helium, compressed	1046
hypochlorite solution	1791
isopropanol	1219
isopropyl alcohol	1219
JP4	1863
JP5	1863
JP8	1223 or 1863
kerosene	1223
MEK	1193
methanol	1230
methy ethyl ketone	1193
methyl alcohol	1230
MOGAS	1203
NATO fuel F-34 (JP-8)	1863 or 1223
NATO fuel F-40 (JP-4)	1863
NATO fuel F-44 (JP-5)	1863
NATO fuel F-46, F-49, and F-57 (MOGAS)	1203
NATO fuel F-54 (diesel)	1202
nitrogen gas bottle	1066
nitrogen, compressed	1066
oxygen gas bottle	1072
oxygen, compressed	1072
paint (not spray cans)	1263
paint spray cans	1950
phosphoric acid, liquid	1805
polyester resin kit	3269
potassium hydroxide, liquid	1814
potassium hydroxide, solid	1813
propane	1965
radioactive material	2910 or 2911
resin solution, flammable	1866
soda lye	1824
STB, dry	2208
sulphuric acid (more than 51 percent acid)	1830
toxic liquid, organic	2810
trichloroethane (1,1,1)	2831
trichloroethylene	1710
turpentine	1299
vehicles or equipment with internal combustion engines	3166

NOTE: This table provides an alphabetical list of common names (not necessarily PSNs). This table should be cross-referenced with table 15.

Table 15
Table of Hazardous Material (notes 1 and 2)

A	B	C	D	E	F	G	H	I	J
1001	Acetylene gas bottle	ACETYLENE, DISSOLVED	2		V7, CV9, CV10, S2	2.1	2.1, (13)		Transport Category 2
1002	Compressed air bottle	AIR, COMPRESSED	2		CV9, CV10	2.2	2.2, (13)		Transport Category 3
1006	Argon gas bottle	ARGON, COMPRESSED	2		V7, CV9, CV10	2.2	2.2, (13)		Transport Category 3
1013	Carbon dioxide (CO_2) gas bottle	CARBON DIOXIDE	2		584, V7, CV9, CV10	2.2	2.2, (13)		Transport Category 3
1044	Fire extinguisher containing compressed or liquefied gas (see special provision 594)	FIRE EXTINGUISHER	2		594				
1046	Helium gas bottle	HELIUM, COMPRESSED	2		V7, CV9, CV10	2.2	2.2, (13)		Transport Category 3
1066	Nitrogen gas bottle	NITROGEN, COMPRESSED	2		V7, CV9, CV10	2.2	2.2, (13)		Transport Category 3
1072	Oxygen gas bottle	OXYGEN, COMPRESSED	2		V7, CV9, CV10		2.2 and 5.1, (13)		Transport Category 3
1133 Adhesives. The difference between the four entries is in the description. The MSDS must be checked to determine which description is correct for the material. FP is flashpoint; BP is boiling (or initial boiling) point.									
1133	Adhesive, not toxic not corrosive (see MSDS). FP below 23° C (73° F), BP not more than 35° C (95° F).	ADHESIVES	3	P001	640, S2, S20	3, (11)	3	I	Transport Category 1
1133	Adhesive, not toxic not corrosive (see MSDS). FP below 23° C (73° F), BP more than 35° C (95° F).	ADHESIVES	3	P001*	640, S2, S20	3, (11)	3	II	Transport Category 2
1133	Adhesive, not toxic not corrosive (see MSDS). FP at or above 23^0 C (73° F), BP above 35° C (95° F).	ADHESIVES	3	P001*	640, S2	3, (11)	3	III	Transport Category 3
1193	MEK; methyl ethyl ketone; ethyl methyl ketone	METHYL ETHYL KETONE	3	P001	S2, S20	3, (11)	3	II	Transport Category 2
1202	Diesel fuel, heating oil light, gasoil	DIESEL FUEL or GASOIL or HEATING OIL LIGHT	3	P001	S2	3, (11)	3	III	Transport Category 3
1203	Gasoline, benzine, or MOGAS	GASOLINE or MOTOR SPIRIT	3	P001	S2, S20	3, (11)	3	II	Transport Category 2
1219	Isopropyl alcohol; Isopropanol	ISOPROPANOL or ISOPROPYL ALCOHOL	3	P001	S2, S20	3, (11)	3	II	Transport Category 2
1223	JP8 or kerosene (FP between 23° C (73° F) and 61° C (142° F))	KEROSENE	3	P001	S2	3, (11)	3	III	Transport Category 3
1230	Methyl alcohol; methanol	METHANOL	3	P001	CV13, CV28, S2, S19	3 and 6.1, (11)	3 and 6.1	II	Transport Category 2
1263 Paint. The difference between the 4 entries is in the description. Check the MSDS to determine which description is correct for the material. FP is flashpoint; BP is boiling (or initial boiling) point. Paint can include lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base. Paint-related material can include paint thinner or reducing compound.									
1263	Paint, not toxic not corrosive (see MSDS). FP below 23° C (73° F), BP not more than 35° C (95° F).	PAINT or PAINT-RELATED MATERIAL	3	P001	163, 640, S2, S20	3, (11)	3	I	Transport Category 1
1263	Paint, not toxic not corrosive (see MSDS). FP below 23° C (73° F), BP more than 35° C (95° F).	PAINT or PAINT-RELATED MATERIAL	3	P001*	163, 640, S2, S20	3, (11)	3	II	Transport Category 2

Table 15
Table of Hazardous Material (notes 1 and 2)

A	B	C	D	E	F	G	H	I	J
1263	Paint, not toxic not corrosive (see MSDS). FP at or above 23° C (73° F), BP above 35° C (95° F).	PAINT or PAINT-RELATED MATERIAL	3	P001*	163, 640, S2	3, (11)	3	III	Transport Category 3
1263	Paint, not toxic, not corrosive (see MSDS). Alternative to 3.5c if no nitrocellulose component. FP at or above 23° C (73° F), BP above 35° C (95° F).	PAINT or PAINT-RELATED MATERIAL	3	P001*	163, 640, S2	3, (11)	3	III	Transport Category 3
1299	Turpentine	TURPENTINE	3	P001	S2	3, (11)	3	III	Transport Category 3
1593	Cleaning compound, slightly toxic, containing dichloromethane	DICHLOROMETHANE	6.1	P001	CV13, CV28, CW31, S9	6.1, (11)	6.1	III	Transport Category 2
1710	Trichloroethylene	TRICHLORO-ETHYLENE	6.1	P001	CV13, CV28, CW31, S9	6.1, (11)	6.1	III	Transport Category 2
1719 Caustic Alkali Liquid. Consult the MSDS to determine the correct classification. Do not use this classification for basic liquids that have their own entry.									
1719	Caustic alkali liquid (see MSDS). Corrosive basic liquid.	CAUSTIC ALKALI, LIQUID, N.O.S.	8	P001	274	8, (11)	8	II	Transport Category 2
1719	Caustic alkali liquid (see MSDS). Slightly corrosive basic liquid.	CAUSTIC ALKALI, LIQUID, N.O.S.	8	P001	274	8, (11)	8	III	Transport Category 3
1760 Corrosive Liquid. May include DS2. Check the MSDS to determine the classification. Do not use this U.N. number when it can be classified under a specific substance (see also 2079 for DS2).									
1760	Corrosive liquid, possibly including DS2. There are various U.N. numbers (such as UN 2079) for DS2, depending on the liquids that are combined to manufacture it (see MSDS). Item 66a is highly corrosive.	CORROSIVE LIQUID, N.O.S.	8	P001	274, S20	8, (11)	8	I	Transport Category 1
1760	Corrosive liquid (see MSDS). Corrosive.	CORROSIVE LIQUID, N.O.S.	8	P001	274	8, (11)	8	II	Transport Category 2
1760	Corrosive liquid (see MSDS). Slightly corrosive.	CORROSIVE LIQUID, N.O.S.	8	P001	274	8, (11)	8	III	Transport Category 3
1778	Fluorosilicic acid	FLUOROSILICIC ACID	8	P001		8, (11)	8	II	Transport Category 2
1791 Hypochlorite solution. The difference between the two entries is the strength of the corrosive: (b) is moderately corrosive and (c) is mildly corrosive. Determine the level by checking the MSDS packaging group.									
1791	Hypochlorite solution (see MSDS). Corrosive.	HYPOCHLORITE SOLUTION	8	P001	521	8, (11)	8	II	Transport Category 2
1791	Hypochlorite solution (see MSDS). Slightly corrosive.	HYPOCHLORITE SOLUTION	8	P001	521	8, (11)	8	III	Transport Category 3
1805	Phosphoric acid, liquid	PHOSPHORIC ACID	8	P001		8, (11)	8	III	Transport Category 3
1813	Potassium hydroxide, solid	POTASSIUM HYDROXIDE, SOLID	8	P002		8	8	II	Transport Category 2
1814 Potassium Hydroxide Solution. The difference between the two entries is the strength of the corrosive: (II) is moderately corrosive and (III) is mildly corrosive. Determine the level by checking the MSDS packaging group.									
1814	Potassium hydroxide, liquid	POTASSIUM HYDROXIDE, SOLUTION	8	P001		8, (11)	8	II	Transport Category 2
1814	Potassium hydroxide, liquid	POTASSIUM HYDROXIDE, SOLUTION	8	P001		8, (11)	8	III	Transport Category 3
1824 Soda Lye. The difference between the two entries is the strength of the corrosive: (II) is moderately corrosive and (III) is mildly corrosive. Determine the level by checking the MSDS packaging group.									

Table 15
Table of Hazardous Material (notes 1 and 2)

A	B	C	D	E	F	G	H	I	J
1824	Soda lye (see MSDS). Corrosive solution of sodium hydroxide.	SODIUM HYDROXIDE SOLUTION	8	P001		8	8	II	Transport Category 2
1824	Soda lye (see MSDS). Slightly corrosive solution of sodium hydroxide.	SODIUM HYDROXIDE SOLUTION	8	P001		8	8	III	Transport Category 3
1830	Sulphuric acid with more than 51 percent acid	SULPHURIC ACID	8	P001		8, (11)	8	II	Transport Category 2
1863	JP4 (FP below 23° C (73° F))	FUEL, AVIATION, TURBINE ENGINE	3	P001	640, S2, S20	3, (11)	3	II	Transport Category 2
1863	JP5 (FP above 23° C (73° F)). Alternative also JP8.	FUEL, AVIATION, TURBINE ENGINE	3	P001	S2	3, (11)	3	III	Transport Category 3
1866 Resin Solution. The difference between the three entries is in the description. Check the MSDS to determine which description is correct for the material. FP is flashpoint; BP is boiling (or initial boiling) point.									
1866	Resin solution, flammable (see MSDS). FP below 23° C (73° F), BP not more than 35° C (95° F).	RESIN SOLUTION, FLAMMABLE	3	P001	640, S2, S20	3, (11)	3	I	Transport Category 1
1866	Resin solution, flammable, not toxic, not corrosive (see MSDS). FP at or above 23° C (73° F), BP above 35° C (95° F).	RESIN SOLUTION, FLAMMABLE	3	P001*	640, S2, S20	3, (11)	3	II	Transport Category 2
1866	Resin solution, flammable, not toxic, not corrosive (see MSDS). FP at or above 23° C (73° F), BP above 35° C (95° F).	RESIN SOLUTION, FLAMMABLE	3	P001*	640, S2	3, (11)	3	III	Transport Category 3
1950 Aerosols. Includes most things that come packaged in a pressurized spray can. The item designation is determined by the hazard characteristics of the total contents. Check the MSDS to determine the characteristics.									
1950	Aerosol can with only inert contents	AEROSOLS	2		190, 625, CV9, CV12	2.2	2.2		Transport Category 3
1950	Aerosol can with oxidizing contents	AEROSOLS	2		190, 625, CV9, CV12	2.2 and 5.1	2.2 and 5.1		Transport Category 3
1950	Aerosol can with flammable contents	AEROSOLS	2		190, 625, CV9, CV12	2.1	2.1		Transport Category 2
1950	Aerosol can with toxic contents	AEROSOLS	2		190, 625, CV9, CV12	2.3	2.3		Transport Category 1
1950	Aerosol can with toxic and flammable contents	AEROSOLS	2		190, 625, CV9, CV12	2.3 and 2.1	2.3 and 2.1		Transport Category 1
1950	Aerosol can with toxic and corrosive contents	AEROSOLS	2		190, 625, CV9, CV12	2.3 and 8	2.3 and 8		Transport Category 1
1950	Aerosol can with toxic and oxidizing contents	AEROSOLS	2		190, 625, CV9, CV12	2.3 and 5.1	2.3 and 5.1		Transport Category 1
1950	Aerosol can with toxic, flammable, and corrosive contents	AEROSOLS	2		190, 625, CV9, CV12	2.3, 2.1, and 8	2.3, 2.1, and 8		Transport Category 1
1950	Aerosol can with toxic, oxidizing, and corrosive contents	AEROSOLS	2		190, 625, CV9, CV12	2.3, 5.1, and 8	2.3, 5.1, and 8		Transport Category 1
1965	Butane in a cylinder	HYDROCARBON GAS MIXTURE, LIQUIFIED, N.O.S. (BUTANE)	2		CV9, CV10, S2, S20	2.1	2.1 and 13		Transport Category 2
1965	Propane in a cylinder	HYDROCARBON GAS MIXTURE, LIQUIFIED, N.O.S. (PROPANE)	2		V7, CV9, CV10	2.1	2.1 and 13		Transport Category 2

Table 15
Table of Hazardous Material (notes 1 and 2)

A	B	C	D	E	F	G	H	I	J
2017	CS tablets	AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE	6.1	P600	CV13, CV28, S9, S19	6.1 and 8	6.1 and 8	II	Transport Category 2
2079	DS2 (verify by MSDS). There are various U.N. numbers (such as UN 1760) for DS2.	DIETHYLENETRIAMINE	8	P001		8, (11)	8	II	Transport Category 2
2208	STB/dry bleach	CALCIUM HYPOCHLORITE MIXTURE, DRY	5.1	P002	CV24	5.1	5.1	III	Transport Category 3
2735 Amines, Liquid, Corrosive. Consult the MSDS to determine the correct classification. Do not use this classification for liquids that have their own entry.									
2735	Amines, liquid, corrosive (see MSDS). Highly corrosive with FP above 61ºC (142ºF).	AMINES, LIQUID, CORROSIVE, N.O.S.	8	P001	274, S20	8, (11)	8	I	Transport Category 1
2735	Amines, liquid, corrosive (see MSDS). Corrosive with FP above 61° C (142° F).	AMINES, LIQUID, CORROSIVE, N.O.S.	8	P001	274	8, (11)	8	II	Transport Category 2
2735	Amines, liquid, corrosive (see MSDS). Slightly corrosive with FP above 61° C (142° F).	AMINES, LIQUID, CORROSIVE, N.O.S.	8	P001	274	8, (11)	8	III	Transport Category 3
2794	Batteries, acid (used) (see special provision 598)	BATTERIES, WET, FILLED WITH ACID	8		598				
2794	Batteries, acid (new or for disposal) (see special provision 598)	BATTERIES, WET, FILLED WITH ACID	8		598				
2795	Batteries, alkali (used) (see special provision 598)	BATTERIES, WET, FILLED WITH ALKALI	8		598				
2795	Batteries, alkali (new or for disposal) (see special provision 598)	BATTERIES, WET, FILLED WITH ALKALI	8		598				
2796	Battery fluid, acid	BATTERY FLUID, ACID	8	P001		8, (11)	8	II	Transport Category 2
2797	Battery fluid, alkali	BATTERY FLUID, ALKALI	8	P001		8, (11)	8	II	Transport Category 2
2800	Batteries, wet, nonspillable. Verify by MSDS that the battery meets nonspillable requirement (see special provision 598).	BATTERIES, WET, NONSPILLABLE	8		598				
2810 Toxic Liquid, Organic. The difference between the three entries is in the description. Check the MSDS to determine which description is correct for the material. Only experts are authorized to classify or to transport by interpreting this table. Contact the environmental office for assistance. If the item is already classified, units may proceed. Pesticide descriptions on the transport document must include the internationally recognized technical name.									
2810	Toxic liquid, organic (see MSDS). Highly toxic. Defined in *ADR* marginal 2600.	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	P001	274, CV1, CV13, CV28, CW31, S9, S17	6.1, (11)	6.1	I	Transport Category 1
2810	Toxic liquid, organic (see MSDS). Toxic. Defined in *ADR* marginal 2600.	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	P001	274, CV13, CV28, CW31, S9, S19	6.1, (11)	6.1	II	Transport Category 2
2810	Toxic liquid, organic (see MSDS). Slightly toxic. Defined in *ADR* marginal 2600.	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	P001	274, CV13, CV28, CW31, S9	6.1, (11)	6.1	III	Transport Category 2
2831	1,1,1 trichloroethane	1,1,1 TRICHLOROETHANE	6.1	P001	CV13, CV28, CW31, S9	6.1, (11)	6.1	III	Transport Category 2
2910 Radioactive Materials. Consult the servicing radiation protection officer for assistance in determining the proper transportation requirements.									

Table 15
Table of Hazardous Material (notes 1 and 2)

A	B	C	D	E	F	G	H	I	J
2910	Radioactive materials	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL	7		S5, S13, S21	None			Transport Category 4
2911	Radioactive materials	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE, INSTRUMENTS or ARTICLES	7		CV33, S5, S13, S21	None			Transport Category 4
2920 Corrosive and Flammable Liquid. Consult the MSDS. Do not use this entry if the substance is listed under a specific item.									
2920	A highly corrosive and flammable liquid (see MSDS)	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	8	P001	274, S2, S20	8 and 3, (11)	8 and 3	I	Transport Category 1
2920	A corrosive and flammable liquid (see MSDS)	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	8	P001	274, S2	8 and 3, (11)	8 and 3	II	Transport Category 2
3028	Dry cell batteries containing potassium hydroxide (see special provision 598)	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE, SOLID	8		598				
3090	Lithium batteries	LITHIUM BATTERIES	9	P903	230, 636, V1	9	9	II	Transport Category 2
3091	Lithium batteries installed in equipment	LITHIUM BATTERIES CONTAINED IN EQUIPMENT	9	P903	230, 636, V1	9	9	II	Transport Category 2
3166	Internal combustion engines and equipment containing engines	Not regulated as dangerous goods by the *ADR* or *RID*.							
3264 Corrosive Liquid, Inorganic. Consult the MSDS to determine the correct inorganic liquid classification. Do not use this classification for liquids, such as battery acid, that have their own entry.									
3264	Corrosive liquid, inorganic, acid (see MSDS). Highly corrosive liquids that are acid.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	P001	274, S20	8 (11)	8	I	Transport Category 1
3264	Corrosive liquid, inorganic, acid (see MSDS). Corrosive liquids that are acid.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	P001	274	8 (11)	8	II	Transport Category 2
3264	Corrosive liquid, inorganic, acid (see MSDS). Slightly corrosive liquids that are acid.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	P001	274	8 (11)	8	III	Transport Category 3
3269 Polyester Resin Kit. Consult the MSDS to determine the correct packing group.									
3269	Polyester resin kit	POLYESTER RESIN KIT	3	P302	S2, S20	3 (11)	3	II	Transport Category 2
3269	Polyester resin kit	POLYESTER RESIN KIT	3	P302	S2	3 (11)	3	III	Transport Category 3
3292	Batteries containing sodium	BATTERIES, CONTAINING SODIUM	4.3	P408	239, 295, V1, CV23	4.3	4.3	II	Transport Category 2

NOTES:

1. The information in this table is required for documenting, labeling, marking, and placarding HAZMAT shipments sent by surface modes. This table does not include every substance or article listed in corresponding European regulations for transport of dangerous goods by surface. The substances and articles listed represent the HAZMAT most commonly shipped by DOD activities in Europe.

2. This table applies only to packaged goods. Class 1 is found in appendix H. Bulk fuels are found in section V. The servicing DGA must be contacted for packaged or bulk shipments of other goods.

b. Table 15 Columns. Table 15 is indexed by U.N. numbers and provides most of the information needed to package an item, complete the transport document, and placard the vehicle, container, or railcar. Some items have special provision codes that must be read to determine the proper classification, description, or packaging. The columns are as follows:

(1) Column A, UN. The U.N. number is a unique four-digit number assigned by the U.N. Countries accept these numbers as representing specific dangerous goods.

(2) Column B, Common Description. The common description is the table 14 cross-referenced common description. It is the common name of an item and is used to help find the PSN. The common description may or may not be the same as the PSN. For example, DS2 relates to the PSN DIETHYLENETRIAMINE, 2079.

(3) Column C, PSN. The PSN is the name associated with the U.N. number by the governing national or international regulation. The PSN is the only name that may be used on the transport document to describe the HAZMAT. The PSN in column C is in uppercase letters. An "or" indicates an alternate wording choice. The PSN must be written in uppercase letters. Where the special provisions indicate, additional technical information must be included to complete the PSN.

(4) Column D, Class. The class is HAZMAT's assigned U.N. hazard class (2 through 9). An item can only belong to one class, but may have several subsidiary risks, as shown by multiple labels in column G.

(5) Column E, Packaging Instruction (P Code). The P code directs the user to individual tables that specify which U.N. packaging methods and materials are allowed for the particular item. The codes also identify special packaging requirements or allowances by U.N. number. Some of the entries are left blank:

(a) Class 2 uses nationally specified construction and testing techniques instead of U.N. standards. Therefore, there is no entry.

(b) Class 7 uses nationally specified construction and testing techniques instead of U.N. standards. Therefore, there is no entry.

(c) When a general exemption exists that allows for an easier method of transport, the exemption is cited instead of the packaging instruction.

(6) Column F, Special Provisions. Special provisions are specific requirements or allowances that refer to the transportation, labeling, packing, and handling of a certain item. These provisions should always be checked to determine how they affect the process. Table 16 provides information on the special-provision codes used in this column.

(7) Column G, Package Main, Subsidiary, and Handling Labels. This column shows which hazard labels are to be placed on the U.N.-certified package. The first number in the column represents the main hazard. The numbers that follow indicate the subsidiary hazards. The "(11)" is a reminder that orientation label number 11 must be applied to two opposite sides of the package if there is an inner package filled with liquid or if the inner package is vented.

(8) Column H, Railcar and Container Placards. This column indicates the diamond-shaped placards to be used for containers and railcars, and the handling placards (numbers 13 and 15) for rail.

(9) Column I, Packing Group Code. The packing group code is used to determine the minimum certification level for packaging. The code also shows the relative danger level of the substance, with III being lowest.

(10) Column J, Transport Category. The transport category is an assigned code used to calculate and identify the maximum quantities of compatible packaged goods allowed under the small quantity exemption.

c. Shipper (Certifier) Procedures. Prepare table 3 goods for shipment as follows:

(1) Identify the type and amount of HAZMAT that requires transportation, using table 14 and table 15. If not listed, the DGA or appointed qualified individual will be consulted.

(2) Some table entries require that the MSDS be checked for certain characteristics, such as flashpoint or boiling point. Appendix I shows a sample MSDS and highlights the areas where this information should be found. MSDS information can be found on-line at *http://hazard.com/msds*.

(3) Check packaging code (column E) and packing group (column I) to determine if existing packaging meets standard or for new packaging. Ensure that the outer and inner packagings are appropriate to the product and that outer packagings are U.N.-certified.

(4) Determine which labels (column H) are required on the package. Write the U.N. number near the labels (for example, UN 2345)

(5) Refer to table 15 and the transport document section to determine all information required for part 5 of the AE Form 55-4AA, or corresponding area of other transport documents:

(a) U.N. number (UN) (column A).

(b) PSN (column C).

NOTE: Although the U.N. number and PSN are in separate columns, the complete PSN consists of the U.N. number and the PSN (for example, 1001 ACETYLENE, DISSOLVED).

(c) Hazard class (column D).

(d) Packing group (column I).

(e) Special provisions relating to the transport document (column F).

(6) If the shipment is going by road, determine and obtain the AIS that applies to the shipment based on the U.N. number, PSN, and packing group.

(7) Before loading, determine compatibility and segregation requirements.

(8) Determine if the goods require a route permit.

(9) Prepare the shipping document Using AE Form 55-4AA as a guide to obtaining required information.

(10) Contact the transporter, or the MCT if the MCT is arranging the shipment, and provide a complete identification of the goods and the identity of all protection equipment required by the AIS.

Table 16 **Special Provisions**	
163	This is a generic name. If the substance has a specific name found elsewhere in the table, the specific name must be used.
190	• Must be provided with protection against inadvertent discharge. • If the article's capacity is no more than 50 milliliters nontoxic, road and rail regulations do not apply.
230	Each battery and cell will be equipped with an effective means to prevent external short circuit.
274	This PSN must be immediately followed by a proper technical name in parentheses. A recognized technical name (not a "trade name") will be provided.
295	Batteries do not need to be individually marked and labeled if the pallet is marked and labeled.
521	Solid chlorites and hypochlorites are class 5.1.
584	When packaged in small capsules with less than 25 grams of gas at not more than 0.75 grams per cubic centimeter, this is not subject to the road and rail regulations.
594	This is exempt from road and rail dangerous goods regulations when either installed as a component or when transported packaged in a strong outer package and protected against inadvertent discharge (the pin or other safety device is installed and secured).
598	Exempt from road and rail dangerous goods provisions when the cases are undamaged; there is no HAZMAT on the outside; they are secured in such a way that they cannot fall, slip, or otherwise be damaged (such as secured to a pallet); and are protected from short circuits.
625	Outer packages must be marked "UN 1950 AEROSOLS."

Table 16 Special Provisions	
636	Packages containing used lithium cells or batteries in unmarked internal packages will be marked "Used lithium cells."
640	The flashpoint and boiling point (if identified) found in the MSDS must be entered in the transport document.
CV1	• Loading or unloading in a built-up public place is prohibited without special permission from the competent authority. Loading or unloading in any other public place is prohibited without advance notice to the competent authority, unless for safety reasons. • If handling operations are required in a public place for any reason, substances and articles of different kinds will be separated according to labels.
CV9	Cylinders must be secured so they cannot overturn or fall.
CV10	Cylinders that are sufficiently stable or in a restraint device may be secured and carried upright. Otherwise, cylinders will be laid longitudinally to the vehicle or container, except that those in the front will be laid lateral to the vehicle or container. Cylinders will be wedged, attached, or secured so they cannot shift.
CV12	When pallets loaded with these articles are stacked, each tier must be evenly distributed over the lower tiers using intermediate weight-distribution material as required.
CV13	If any of this substance leaks or spills in the vehicle or container, the vehicle or container may not be reused until thoroughly cleaned and (if necessary) disinfected or decontaminated. Any other goods or articles carried in the same load will be examined for possible contamination.
CV23	When handling packages, special care will be taken to avoid contact with water.
CV24	Before loading, the load compartment must be thoroughly cleaned and free of any combustible debris (for example, straw, hay, paper).
CV28	This substance will not be loaded in proximity to food or animal foodstuffs and should not be loaded in the same container or load compartment. However, if the substance must be loaded with food or animal foodstuffs, the items will be kept apart by one or more of the following means: • Separate using complete partitions at least as high as the packages for items with 6.1, 6.2, or 9 labels. • For packages not bearing the 6.1, 6.2, or 9 label, or UN 2212, 2315, 2590, 3151, 3152, or 3245, maintain a space of at least 0.8 meters between the item and the food or foodstuff. • Completely cover 6.1, 6.2, or label 9 substances with sheeting or other suitable material.
CV33	For assistance in understanding these requirements, a trained radiation protection officer or noncommissioned officer should be consulted. AR 11-9 provides information on the Army Radiation Protection Program. • If a package is damaged or appears to be leaking, access to the area will be restricted and a qualified person will, as soon as possible, assess the extent of contamination and the resultant radiation level of the package. The scope of the assessment will include the package, the vehicle, the adjacent loading and unloading areas, and, if necessary, all other material that is or had been carried with the load. • Pre- and post-transport swipe tests and monitoring will be according to section VI.
CW31	Railcars and containers that have contained this substance will be checked after unloading for any residue and properly cleaned.
S2	No flame devices such as lights or heaters will be in operation during loading or unloading. The load compartment will be entered only with explosion-proof lights and flashlights.
S5	The requirement for an AIS does not apply.
S9	Stops for service will not be made near inhabited places or places frequented by the public. Longer stops require the consent of the competent authorities.
S13	When a transported item cannot be delivered, it will be kept in a safe place and competent authorities will be notified for disposition instructions.
S17	The vehicle must be supervised at all times by a responsible individual when loaded in excess of 1,000 kilograms of the substance or article. (This requirement is not applicable to railcars.)
S19	The vehicle must be supervised at all times by a responsible individual when loaded in excess of 5,000 kilograms of the substance or article. (This requirement is not applicable to railcars.)
S20	The vehicle must be supervised at all times by a responsible individual when loaded in excess of 10,000 kilograms of the substance or article. (This requirement is not applicable to railcars.)

Table 16 Special Provisions	
S21	The vehicle must be supervised at all times by a responsible individual when loaded except when both of the following apply: • The load compartment is locked or otherwise protected from unloading. • The dose rate does not exceed 5 microsieverts per hour (microSv/h) at any accessible point on the outer surface of the vehicle.
V1	Packages will be transported only in closed or covered vehicles, closed or covered railcars, and closed or covered containers
V7	Vehicle and container must be ventilated. (This requirement is not applicable to railcars.)

SECTION IV
CLASS 1 AMMUNITION AND EXPLOSIVES ADDITIONAL REQUIREMENTS

This section provides additional requirements applicable to class 1. The requirements in sections I to III also apply.

29. SHIPMENT PREPARATION

a. Packaging. All packages containing HAZMAT must be in U.N.-certified packaging. Consult the chief of ammunition quality assurance at the servicing ammunition supply for direction on ammunition and explosives that are not packaged in U.N. packaging.

(1) Failure to use the same packaging may significantly affect the compatibility group or the packaging exemption. For this reason, care must be taken during exercises and range operations when opening packages. Packaging material should be saved. If a class 1 substance or article is not packaged in the original packaging, or in serviceable like packaging, it should not be transported without consulting the chief of ammunition quality assurance at the servicing ammunition supply point (ASP).

(2) Propelling charges, excess propellant bags, and excess mortar propellant increments will be transported only in their original packaging.

(3) Expended tube-launched, optically tracked, wire-guided (TOW) tubes that have not been inspected, certified, and verified as being free of explosives will be transported in their original packaging.

(4) Stinger-missile battery-coolant units will be transported in their original packaging.

(5) Other loose ammunition and explosives will be repackaged in their original or similar type packaging for transport.

b. Marking.

(1) In addition to the U.N. number standard marking requirement, each package containing class 1 ammunition and explosives will be durably marked (stenciled) with the PSN. Labels or attachments may not obscure markings. Abbreviations will not be used in the PSN except if they appear in the Ammunition and Explosives Matrix in appendix H. Handprinting with a marker is not authorized.

(2) Palletized and unitized loads need not be broken down for remarking of individual packages, as long as the information is applied to the outside of the pallet or unitized load. Missing markings may be displayed on a sign securely attached on two sides of the pallet

(3) Consignee and consignor address markings will be applied to each package on four sides of a pallet by attaching DD Form 1387. Full truckload shipments moving from a single consignor to a single consignee require at least one completed address label attached to the package or palletized load located closest to the door.

(4) At least one package in a palletized load will be turned to show markings not visible on all packages. Old Department of Transportation markings should be replaced.

c. Labeling. Each package containing ammunition and explosives will bear the appropriate hazard labels.

(1) Ammunition and explosive labels will show the hazard class, division and compatibility group. Subsidiary risk labels will be placed adjacent to the primary hazard label. Classes 1.1, 1.2, and 1.3 use label number 1. Class 1.4 uses label 1.4. Class 1.5 uses label 1.5. Class 1.6 uses label 1.6.

(2) Labels will be completed as follows:

(a) On label 1, the class, division, and compatibility group are entered in place of the asterisks.

(b) On labels 1.4 and 1.5, only the compatibility group is entered in place of the asterisk.

30. CLASS 1 SHIPMENT DOCUMENTATION

a. The following are additional class 1 specific requirements beyond the general HAZMAT transport document requirements. Appendix H provides the specific information by ammunition item code and NSN. The information is used the same way as table 15.

(1) For routine movement of ammunition and explosives, an accountability document such as DD Form 1348-1A, DA Form 581, or DA Form 3151-R may be used as the transport document, as long as all information as identified in section II is provided on the document.

(2) Transportation documents for class 1 have the following differences from transportation documents of other classes:

(a) Class 1 items are referenced as the class, division, and compatibility group (for example, 1.3C).

(b) In addition to the gross mass, the total net explosive weight (kilograms) for the line item must be entered.

(c) If the item has an "N.O.S." PSN, transport approval must be received from the local country government's competent authority and attached to or referred to by the shipment documentation.

(3) The primary AIS is determined by the division (for example, 1.2). If a supplemental AIS is also required, it is identified in figure H-1, column 13.

b. When shipping by rail only--

(1) Wagonload and full wagonload shipments must be annotated with the number of packages, the gross weight of each package, and the net explosive weight.

(2) When compatibility groups B and D are transported together, the competent authority transport approval from the local national government must be included either by reference or by attachment.

(3) Annotate the transport document "MILITARY CONSIGNMENT".

31. CLASS 1 TRANSPORT GENERAL REQUIREMENTS

Vehicles and containers loaded with ammunition and explosives will be transported only with a valid HVCP on approved military vehicles or valid B3 certificate on EX/II and EX/III commercial vehicles, in authorized railcars, or in certified Container Safety Convention (CSC)-approved freight containers.

32. VEHICLE AND EQUIPMENT REQUIREMENTS

a. General.

(1) When moving ammunition and explosives, covered vehicles will be used or the cargo will be covered by tarps. The use of vehicles or railcars without tarps (for example, open flatracks, open flatbed trailers) is permitted when transporting palletized ammunition according to DOD standards and drawings if the cargo is properly secured against theft or falling and protected against inclement weather by its designed overpack or packaging. If tarps are used, they should overlap by more than 20 centimeters.

(2) Vehicles will not tow more than one trailer or semitrailer.

(3) In addition to the standard HAZMAT vehicle equipment, class 1 vehicles will carry a set of tirechains from 1 November through 30 April. Only the M35A3 is exempt from this equipment. Other vehicles equipped with a tire-inflation system are not exempt from this requirement. The operators manual should be referred to for installation instructions.

b. Types of Vehicles.

(1) EX/II Transport Units (Vehicles With Diesel Engines). Government-owned EX/II vehicles must comply with the requirements of the Hazardous Material Vehicle Certification Program. Commercial vehicles must comply with the certification requirements of *ADR*, part 9.1 (*http://www.unece.org/trans/danger/publi/adr/adr2001/English/Part8,9.pdf*).

(a) The cargo area of these vehicles must be constructed so that the cargo is protected from external hazards and the weather. The cargo area may be the enclosed type (trailer) or will be equipped with tarps. If the vehicle is the flatbed type, the tarp must cover the load. If the vehicle is equipped with doors, they must be closefitting and lockable.

(b) The cargo-area bed must be continuous and solid. Holes, cracks, creases, and gaps must be filled with a caulking compound or covered with wood.

(2) EX/III Transport Units. EX/III vehicles must comply with the requirements in (1) above. The vehicle must also be closed so that the loading surface, including the walls, is continuous and solid. The trailer must be equipped with an effective braking device that acts on all wheels.

c. Maximum Net Explosive Weight (NEW) in Kilograms per Transport Unit. Table 17 provides the maximum allowable NEW in kilograms for each hazard class and division for military and commercial EX/II and EX/III vehicles, including the trailer identified in table 18.

Table 17
Maximum Net Explosive Quantity for Transport Units

Subdivision	1.1		1.2	1.3	1.4 (note)		1.5 and 1.6	Empty uncleaned packages
Compatability Group	A	Other than A	All	All	Other than S	S	All	All
EX/II	6.25	1,000	3,000	5,000	15,000	Unlimited	5,000	Unlimited
EX/III	18.75	16,000	16,000	16,000	16,000	Unlimited	16,000	Unlimited
NOTE: The NEW for 1.4S items being transported does not apply towards the total net explosive mass in the transport unit.								

Table 18
Vehicles Authorized to Carry Class 1 (notes 1 and 2)

	1.1	**1.2**	**1.3**	**1.4**	**1.5**	**1.6**
M1008, TRUCK CARGO (EX/II)	X	X	X	X	X	X
M1074, PLS (EX/II)	X	X	X	X	X	X
M35 SERIES, 2½ TON TRUCK (EX/II)	X	X	X	X	X	X
M813 SERIES, TRUCK CARGO 5 TON (EX/II)	X	X	X	X	X	X
M814 SERIES, TRUCK CARGO 5 TON (XLWB) (EX/II)	X	X	X	X	X	X
M871 SERIES, TRAILER FLATBED (EX/II)	X	X	X	X	X	X
M872 SERIES, TRAILER FLATBED (EX/II)	X	X	X	X	X	X
M915 SERIES, TRUCK TRACTOR, LINE HAUL (EX/II)	X	X	X	X	X	X
M916, TRUCK TRACTOR (EX/II)	X	X	X	X	X	X
M923 SERIES, TRUCK CARGO 5 TON (EX/II)	X	X	X	X	X	X
M926 SERIES, TRUCK CARGO 5 TON (EX/II)	X	X	X	X	X	X
M928 SERIES, TRUCK CARGO 5 TON (EX/II)	X	X	X	X	X	X
M931 SERIES, TRUCK CARGO 5 TON (EX/II)	X	X	X	X	X	X
M932, TRUCK TRACTOR 5 TON (EX/II)	X	X	X	X	X	X
M977, HEMTT (EX/II)	X	X	X	X	X	X

Table 18
Vehicles Authorized to Carry Class 1 (notes 1 and 2)

	1.1	1.2	1.3	1.4	1.5	1.6
M1009, CUCV (note 3)				X		
M101 SERIES, TRAILER CARGO ¾ TON (note 3)				X		
M1026, HMMWV (note 2)				X		
M105 SERIES, TRAILER CARGO 1½ TON (note 3)				X		
M998, HMMWV (note 2)				X		
Commercial and nontactical vans and trucks (note 4)	X	X	X	X	X	X
Commercial and nontactical vans and trucks (note 5)				X		

NOTES: 1. An "X" in an intersection indicates approval for transport.
2. Servicing ASPs or quality assurance specialists (ammunition surveillance) (QASASs) should be contacted for vehicles not listed.
3. These vehicles are limited to carrying hazard and division 1.4, storage compatibility group S.
4. U.S. Forces-owned diesel engine type vehicles with a separate load compartment which have a valid HVCP or meet provisions of national law with an *ADR* vehicle certificate of approval as EX/II or EX/III.
5. Vehicles without a diesel type engine, without a separate load compartment, or without an HVCP or without a commercial certificate as an EX/II or EX/III vehicle can only be used to transport hazard class and division 1.4S.

(1) Containers meeting EX/III body criteria may be mounted on an M915 with trailer, palletized load system, and other vehicles equipped with a container hold-down system, and then operated as an EX/III vehicle. In no case will containers with class 1 be secured with tiedown straps.

(2) Military vehicles in table 18 that are classified as EX/II can carry up to 7,500 kilograms NEW for hazard class and division 1.1, 1.2, and 1.3 while operating in Germany.

d. Vehicle and Railcar Inspection.

(1) Motor Vehicles. All motor vehicles transporting ammunition and explosives must have a valid HVCP or commercial EX certificate. Each vehicle will also be inspected before and after loading by a certified inspector using DD Form 626. The inspection requirements in all three parts of the DD Form 626 will be met at the point of origin. Only the load will be inspected at the destination and verified against the shipping documents.

(2) Railcars. Railcars to be used in transporting ammunition and explosives should have an approval slip of the respective railroad used (for example, DB, SNCF, SNCB) in the label holder. Each railcar will have the following inspection points verified by a certified inspector (military or DOD employee):

(a) Cleanliness.

(b) Function of doors and locking mechanisms.

(c) Holes in floor, sidewalls, and roof.

(d) Presence of spark shields at axle bearings

(e) Presence of railroad-inspection-approval form.

e. Class 1 Load Compatibility.

(1) Ammunition and explosives, except for hazard class and division 1.4S, will not be shipped on the same vehicle with other HAZMAT except as allowed in table 3. This policy also applies to freight containers when more than one container is shipped on the same vehicle or railcar. Only class 9 UN 2990 and UN 3072 lifesaving equipment may be shipped with class 1 material.

(2) Ammunition and explosives will not be shipped on the same vehicle or railcar, regardless if loaded in separate containers, unless allowed by table 4.

(3) Special rail segregation rules apply to a series of railcars. In addition to the compatibility rules in (1) and (2) above, a railcar or series of railcars loaded with class 1 and bearing labels 1, 1.5, or 1.6 must be segregated in the front and rear from other cars carrying goods bearing labels 2.1, 3, 4.1, 4.2, 4.3, 5.1, or 5.2. The segregation is by railcars not carrying HAZMAT or by railcars carrying HAZMAT with labels other than those identified. The separation will be one or more railcars and the separating railcars must total at least four axles. A single four- or six-axle car, or two two-axle cars, will meet this requirement.

f. Crew (Driver and Assistant Driver) Requirements.

(1) The transport of ammunition and explosives requires a driver and an assistant driver. Both the driver and the assistant driver will be licensed on the vehicle and have current *ADR* certificates (orange cards). An assistant driver is not required when transporting hazard class and division 1.4S under the small quantity exemption.

(2) During convoy operations, only the first and last transport units are required to have an assistant driver. Assistant drivers will be qualified according to (1) above. For the purpose of this requirement, a convoy consists of three or more transport units.

(3) An *ADR* certificate is not required when transporting 1.4S under the small quantity exemption (app D).

g. Vehicle Supervision. Vehicles loaded with ammunition and explosives will not be left unattended unless parked in a secure, guarded military facility. At least one DOD-related individual with a minimum security clearance corresponding to the load will monitor the vehicle. Unauthorized personnel will not be allowed near the vehicle.

h. Refuge. Refuge is emergency assistance provided by an installation to vehicles transporting arms, classified (Confidential or Secret) materials, or hazard class and division 1.4 ammunition. Requirements for assistance are the same as for safe haven (i below), except that quantity-distance considerations are not required.

i. Safe Haven. Safe haven is emergency assistance provided by an installation to vehicles transporting ammunition and explosives of hazard class and division 1.1, 1.2, and 1.3 because of circumstances beyond a carrier's control (for example, severe weather, vehicle breakdown). Prime considerations are hazard to personnel, facilities, operations, and analysis of quantity-distance requirements.

j. Routing. Selected routes must be coordinated with military highway-movement-control cells. Planned routes should avoid populated areas.

(1) In Germany, transport units transporting a total of 1,000 kilograms NEW or more of hazard class and division 1.1 material require a route determination (march credit) from the regional highway movement control team (HMCT). The credit must be in the transport unit during the transport. The carrier has the lead in assuring that the credit is obtained. The appropriate host-country military highway-movement-control cell must be contacted for similar restrictions in other countries.

(2) Travel-route determinations will be requested on transportation movement requests from the U.S. Army MCT with geographic responsibility in Austria, Belgium, the Czech Republic, Denmark, France, Germany, Hungary, Italy, Luxembourg, the Netherlands, Poland, and Slovakia that coordinates with the host country or other national authorities. In the United Kingdom and Norway, the 3d Air Force at Royal Air Force Station Mildenhall will obtain required clearances. In Greece and Turkey, the 16th Air Force in Aviano, Italy, will obtain required clearances. For other countries, the 1st TMCA will contact the appropriate office of defense cooperation colocated with the American Embassy in the particular country.

k. Loading, Unloading, and Restraining. For all modes of transportation, the load of dangerous articles or items will be properly stowed on the transport unit to prevent movement or shifting. United States Army Materiel Command Drawing 19-48-75-5 and Air Force Technical Order 11A-61-series provide procedures for stowing articles. Supporting ASPs may also be contacted for assistance.

(1) DOD ammunition and explosives will be loaded and unloaded only by designated DOD or DOD-contracted personnel knowledgeable and trained in the handling of the commodity involved, and only at loading sites and railheads approved by the CG, USAREUR/7A, or CG, USAFE. Warning signs will be posted at a safe distance during loading and unloading operations indicating the highest hazard class being handled. Appropriate firefighting equipment and personal protective equipment will be onsite.

(2) The supervisor, foreperson, or noncommissioned officer in charge (NCOIC) will follow instructions provided by this publication and the applicable SOP or operating instructions. Emergency procedures and evacuation routes will be available. All personnel involved in the operation will be briefed on safety and emergency procedures before the operation begins.

(3) The cargo beds of all vehicles will be cleaned. Nails and dunnage will be removed and swept after unloading and doors. Sideboards and end-gates will be securely closed. Ground guides will be used when operating MHE during loading and unloading.

l. Class 1 Transport Unit, Railcar, and Container Placarding.

(1) General. Placards will be completed as follows:

(a) Placard 1, 1.4, 1.5, or 1.6 will be securely attached. For mixed loads, the placard is determined based on the following hazard class and division (from highest to lowest priority): 1.1, 1.5, 1.2, 1.3, 1.6, and 1.4. When hazard class and division 1.5D is loaded with hazard class and division 1.2, the transport unit will be placarded as 1.1.

(b) On placard 1, the class, division, and compatibility group are entered in place of the asterisks. The division is based on the mixed load priority in (a) above. The compatibility group will be left off when more than one compatibility group is loaded.

(c) On placards 1.4 and 1.5, only the compatibility group is entered in place of the asterisk. The compatibility group will be left off when more than one compatibility group is loaded.

(2) Road. In addition to the plain orange rectangular warning plates required by paragraph 24, class 1 placards will be applied to both sides and the rear of the vehicle. There is no exemption to placarding.

NOTE: For road-only transport, class 1.4S items reside within the small quantity exemption. Therefore, neither the orange rectangular warning plates or the 1.4S diamond placards are required when the small quantity exemption information is included on the transport document (app D).

(3) Railcars. Railcars will be placarded on both sides only. Railcars do not use the orange rectangular plates.

(4) Railcar Handling Triangular Placards 13 and 15. Placard 13 (red triangle with black exclamation mark) will be applied in or alongside of the label-holder on both sides of wagons transporting 1.1, 1.2B, 1.2F, 1.2H, 1.2J, 1.2L, 1.3C (except U.N. numbers 0183, 0186, 0242, 0272, 0275, 0277, 0327, 0417, 0437, 0447, and 0470), 1.3F, 1.3H, 1.3J, and 1.3L. Railcars carrying U.N. numbers 0160, 0072, 0075, 0083, 0133, 0143, 0146, 0150, 0208, 0219, 0226, 0340, 0341, 0391, 0394, and 0411 will bear labels of model 15 instead of 13 (three red triangles with black exclamation mark) in or alongside the label-holder on both sides. This includes cars carrying containers or piggybacked road vehicles with these U.N. numbers aboard.

(5) Containers. Containers will be placarded on all four sides.

33. CLASS 1 RAIL LOADING AND UNLOADING

a. Loading and Unloading.

(1) Loading and unloading of DOD ammunition and explosives will be performed only at loading sites and railheads approved by the USAREUR command or USAFE MAJCOM with operational control over the geographic area in which the rail-site is located.

(2) In accordance with AR 385-64, the citing of railheads for use with class 1 will be performed by designated DOD or DOD-contractor personnel who are knowledgeable of and trained in explosive safety standards.

(3) Warning signs will be posted at a safe distance during loading and unloading operations indicating the highest hazard class being handled. Appropriate firefighting equipment and personal protective equipment will be onsite.

(4) Ammunition and explosives will be transported in covered railcars that meet the type design for class I. No metal objects other than structural parts may protrude to the interior. The floor will be cleaned, and doors and ventilator shutters will be closed.

(5) Only wagons equipped with steel spark resistors will be used for transporting divisions 1.1, 1.2, 1.3, 1.5, and 1.6. Railcars designed to transport large freight containers will also be equipped with steel spark resistors.

(6) Freight containers will be placed door-to-door on railcars when possible to deny access. All four corners of a freight container will be secured in place with locking pins equipped on the railcar.

b. Load Restraining. Packages or pallets will be secured effectively in the wagons to prevent movement or shifting. United States Army Materiel Command Drawing 19-48-75-5 or the Air Force Technical Order 11A1-61-series provide general guidance. Railcars with adjustable, internal, mechanical restraining bulkheads may be used. Blocking and bracing will be nailed to the floor, but not to mechanical bulkheads.

34. RAIL SECURITY SPECIAL REQUIREMENTS

All rail transports of ammunition and explosives will be escorted by armed military guards. Security service will be determined based on present official threat conditions and the security category of the material. Specific security requirements will be obtained from the local military intelligence or provost marshal office. Rail security crews will be requested through the branch MCT or MCT from the supporting provost marshal or security office. A passenger- or DOD-owned guard car will be included in the rail-movement planning.

35. CLASS 1 IN-HOUSE MOVEMENTS

NOTE: Air Force personnel will transport munitions according to Air Force Manual 91-201 and other applicable Air Force directives while on Air Force installations.

a. For in-house movements on ammunition installations such as ammunition depots or ASPs--

(1) The driver of a transport unit loaded with ammunition does not have to be *ADR*-certified provided he or she has been trained according to ammunition and explosive standards. Commanders will ensure that only experienced and responsible personnel will be assigned these duties.

(2) In addition to DOD fire symbols used inside the ammunition storage area, orange rectangular warning plates will be affixed to the front and rear of the transport unit when moving outside of the ammunition storage area but within the fenced installation. Otherwise, the vehicle will be properly placarded for road movement.

b. For class 1 transport outside of ammunition areas but inside installation boundaries, transport units will be operated as if for standard road movement. Commanders of major training areas may request a waiver to parts of this publication that concern transport under simulated tactical conditions. SOPs will be written and applied to organizations operating in the major training area. Specific approvals to deviate from this publication will be requested in writing from the proponent.

36. TRANSPORTATION SECURITY FOR ARMS, AMMUNITION, AND EXPLOSIVES

a. General.

(1) This paragraph prescribes transportation security standards and policy; defines procedures for safeguarding categorized arms, ammunition, and explosives (AA&E); and prescribes security requirements for transporting AA&E in Europe by rail and by noncommercial motor vehicle. DOD 4500.9-R, part II, and applicable service regulations (for example, AR 190-11) provide policy for other types of unit movement and for commercial movement. Movement of AA&E must be coordinated with the host country to ensure no conflicts exist in providing required security measures.

(2) Commanders in the USEUCOM area of responsibility, based on host-country requirements, the local threat situation and personnel staffing, will use discretion in providing adequate security in theater when transporting AA&E cargo. Transportation service will adhere as closely as possible to the established requirements for continental United States (CONUS) shipments. When such service cannot be obtained, compensatory measures will be taken to achieve equivalent security standards. An official transport plan may need to be presented to the appropriate service security agency for approval.

(3) AA&E items will not be left unattended or unsecured at any time. The minimum security standards as outlined in appropriate service security regulations identify security requirements for various categories, including AA&E. Although some assets are protected based on the level of risk, items in the AA&E category are required to be protected at an "absolute standard" (regardless of risk level). HQ USEUCOM may publish additional security measures for certain countries, depending on threat conditions, which must be adhered to.

(4) Classified AA&E will not be left unattended at any time. Constant surveillance by a U.S. Government employee with a U.S. Government clearance equivalent to the security classification of the item is mandatory.

(5) If classified AA&E is booked on an ocean carrier not possessing a U.S. Government-issued industrial clearance, supercargoes with the appropriate U.S. Government-issued security clearance will escort the material or equipment on the vessel.

(6) The MCT will ensure that the security risk code (SRC) and the classification are stated on the transportation-movement request.

(7) DD Form 1911 will be maintained for all AA&E. The DODIC, SRC, or controlled inventory item code (CIIC), items classification; seal numbers; railcar numbers; MILVAN and International Standards Organization (ISO) container numbers, and truck and trailer numbers, if applicable, will be annotated.

b. Responsibilities. Responsibilities are divided in two categories:

(1) AA&E in Nonunit Configuration. AA&E in nonunit configuration is defined as AA&E not assigned to a specific unit while in transport or AA&E moving independently of the owning unit.

(a) The command with overall responsibility for providing common-user transportation services in the geographic areas outlined in USEUCOM Directive 60-11 will provide technical assistance to transportation officers on physical security of AA&E in nonunit configuration.

(b) In the European theater area of responsibility, transportation officers will coordinate security services through their servicing MCT and USAFE TMO offices. Advance coordination with the Office of the Provost Marshal (OPM), Headquarters, 21st Theater Support Command (HQ, 21st TSC), is required before any movement of AA&E in nonunit configuration to ensure availability of security personnel. Units that have questions on transportation security may contact the OPM, HQ, 21st TSC, at DSN 484-7613/8147 or fax DSN 484-7267.

NOTE: After duty hours or in case of an emergency, the Emergency Operation Cell (EOC), HQ, 21st TSC, will be notified to implement necessary measures for notifying key personnel (DSN 484-7700).

(2) AA&E in Unit Configuration. AA&E in unit configuration is defined as AA&E assigned to a unit and being transported for training, deployment, redeployment, or as part of the unit's routine mission. Unit commanders will ensure that there is enough security to protect AA&E being moved by unit or organizational transportation personnel on or off installations. Personnel executing security duties must be properly trained and comply with DOD and host-country law as outlined in the NATO Status of Forces Agreement and the Supplementary Agreement or as based on bilateral agreements.

(a) The military community provost marshal or security officer will provide technical assistance to unit transportation officers on physical security of AA&E during transit or storage.

(b) Local military intelligence organizations will provide up-to-date terrorist threat information to transporting units. Security measures will be taken based on the security category in the ammunition list and paragraph 36. Security service will be determined based on present official threat conditions and the security category of the material. Specific security requirements will be obtained from local military intelligence or provost marshal office.

(c) The local criminal investigation division will provide up-to-date criminal threat information.

(d) The transportation unit will provide intransit security guards for shipments of unit-owned AA&E. Guards will--

1. Possess a security clearance for classified shipments of AA&E.

2. Be qualified with their assigned weapon.

3. Understand AR 190-14.

4. Understand the rules of engagement (ROE).

(e) The unit custodial officers will coordinate with host country and military police (MP) before any movement of AA&E.

(f) If the intransit security or escort requirement exceeds the capabilities of the shipper or unit, the shipper or unit is responsible for obtaining these services from their command. In these cases, the movement will be finalized by the MCT only on confirmation that appropriate security assets are available or present.

c. Guard Personnel and MP. Procedures for obtaining guard personnel or MP to safeguard AA&E during intransit operations are as follows:

(1) Intransit security requirements for the movement of AA&E in unit configuration will be provided by the owning unit.

(2) In central Europe, all requests for intransit MP and security escort of nonunit-configured AA&E will be submitted to the S3, Transportation Movement Control Center, 1st TMCA, with a copy to the OPM, HQ, 21st TSC, 15 workdays before the start-date of the mission. The OPM, HQ, 21st TSC, will review the request, validate the requirement, and determine the ability of 21st TSC MP assets to perform the mission. If mission support is unavailable from 21st TSC MP assets, the OPM, HQ, 21st TSC, will refer the mission to the OPM, HQ USAREUR/7A, for support.

(3) Short-notice requirements (those requirements submitted to the OPM, HQ, 21st TSC, 5 workdays or less before the start-date of the mission) must be sent to the OPM, HQ, 21st TSC, by e-mail and followed up immediately by telephone (DSN 484-7613/8147). If e-mail is not available, requests will be submitted by fax (DSN 484-7267).

d. Road Transportation.

(1) Noncommercial Motor Vehicle Movement of AA&E.

(a) Categories III, IV, and Uncategorized AA&E. When moving this AA&E, units will--

1. Maintain the AA&E under continuous control.

2. Use only Government vehicles.

3. Not use privately owned vehicles.

4. Use the vehicle exclusively for AA&E. (AA&E will not be mixed with other cargo.)

5. Lock, seal, or band cargo by shipper.

(b) Category II AA&E. In addition to the requirements in (a) above, units will--

1. Place category II AA&E in the custody of a sergeant (E5) or above.

2. Provide armed-guard surveillance. (One guard may cover a maximum of three vehicles.)

3. Ensure that the driver and guard have a favorable expanded national agency check.

4. Lock and seal cargo by shipper.

(c) Category I and Classified AA&E. In addition to the requirements in (b) above, units will--

1. Require the custodian to have a security clearance at least equal to the level of classification of AA&E being transported.

2. Provide an armed guard for each vehicle.

3. Lock and seal cargo by shipper.

4. Maintain a continuous audit trail by serial number or item to the consignee.

5. Use two-person certification.

6. Maintain two-way communications between the lead and trail vehicle.

(2) Contractor Motor Vehicle Movement of AA&E. The same security requirements as summarized in 1(a) through (c) above will apply to contractor-vehicle movement of AA&E. In nonunit configuration, the shipper must request a security escort through the Transportation Movement Control Center, 1st TMCA, and the OPM, HQ, 21st TSC, regardless of the category shipped.

(3) Rail Movement of AA&E.

(a) General.

1. All rail movements of AA&E, regardless of category, will be escorted by MP.

2. DOD 5100.76-M and applicable service regulations (for example, AR 190-11) require rail surveillance service (RSS) for rail movement of AA&E categories II, III, and IV. RSS is defined as an inspection service of rail shipments and is made within 1 hour after each stop if the trailer containing a shipment remains at halt. Reinspection is made at least once each hour, as long as the railcar containing the shipment remains at a halt. USAREUR Regulation 190-13 has translated these CONUS-specific services into discrete requirements applicable to rail movements in the European theater. To ensure the above requirements are granted and to prevent intransit AA&E from sabotage, theft, espionage, and vandalism, guard personnel must escort all AA&E rail shipments, regardless of the item-specific SRC.

NOTE: Personnel involved in the movement of AA&E by rail are prohibited from climbing on vehicles or equipment that are loaded on railcars.

3. The CG, 21st TSC, will provide MP services for railway security (USAREUR Reg 190-62).

4. The shipper must coordinate through transportation channels with the OPM, HQ, 21st TSC, to obtain MP and host-country security services for railway intransit security operations in nonunit configuration.

(b) Categories IV, III, and II AA&E. When moving this AA&E, units will--

1. Ship the AA&E inside locked (or equivalent system), sealed containers (USAREUR Reg 190-13).

2. Where possible, place containers door to door to deny access (USAREUR Reg 190-13).

3. Require the shipper to notify an U.S. representative immediately when the train arrives at its destination (DOD 5100.76-M).

4. Conduct hourly security checks (visual inspections of cars, locks, seals) when the train has stopped (USAREUR Reg 190-13).

5. Check and verify seals at stops lasting more than 1 hour and at the final destination (USAREUR Reg 190-13).

(c) Category I and Classified AA&E. When moving this AA&E, units will--

1. Meet all requirements of categories II, III, and IV above.

2. Ensure armed guards conduct constant surveillance (DOD 5100.76-M).

e. Sea Transportation by Ocean Carrier.

(1) Category III and IV AA&E. When moving this AA&E, the following is required:

(a) Armed-guard security at the pier and during transit.

(b) Written receipt from the ship's officer at the port of embarkation and written release to carriers at the port of debarkation.

(c) DD Form 1907. (This form is used to sign for custody of the cargo.)

(d) Dual-driver protective service for associated motor movements (see road transportation (d above)).

(e) MP for associated rail movements.

(2) Category II AA&E. When moving this AA&E, units will--

(a) Meet all the requirements of categories III and IV above.

(b) Have armed-guard surveillance to the port of entry, during transit, and from the port of discharge.

(3) Category I AA&E. When moving this AA&E, units will--

(a) Meet all requirements of categories II through IV above.

(b) Use DD Form 1911.

(4) Classified AA&E. Classified AA&E is normally booked on Military Sealift Command (MSC)-controlled vessels possessing an U.S. Government-issued industrial clearance. Contingency or other operations might demand that non-MSC-controlled vessels not possessing a U.S. Government-issued industrial clearance being used to transport classified AA&E. When moving this AA&E, units will--

(a) Meet all the requirements of categories I through IV above.

(b) Use supercargoes for associated inland water transportation by barges.

(c) For contingencies and other operations, may use supercargoes for vessels not in possession of a U.S. Government-issued industrial clearance.

(d) Use DD Form 1911.

NOTE: The shipper must ensure that classified AA&E is under constant surveillance by U.S. Government personnel with a Secret clearance while intransit from origin to final destination, regardless of the mode of transportation being used.

(5) AA&E in Nonunit Configuration. The shipper must coordinate through transportation channels with the OPM, HQ, 21st TSC, to obtain the required supercargoes for shipping this AA&E.

(6) AA&E in Unit Configuration. The shipper must coordinate through the Office of the Provost Marshal, HQ USAREUR/7A, and the USAREUR G3 to task supercargoes if the supercargo requirement exceeds unit assets.

NOTE: The OPM, HQ, 21st TSC, can provide technical advice for supercargo operations.

f. Inland Waterway Transportation.

(1) Category III and IV AA&E. When moving this AA&E, the following is required:

(a) Armed guard security at the pier and during transit.

(b) Written receipt from the ship's officer at the port of embarkation and written release to carriers at the port of debarkation.

(c) DD Form 1907. (This form is used to sign for custody of the cargo.)

(d) Dual-driver protective service for associated motor movements (see road transportation (d above)).

(e) MP for associated rail movements.

(2) Category II AA&E. When moving this AA&E, units must--

(a) Meet all the requirements of categories III and IV above.

(b) Have armed-guard surveillance to the port of entry, during transit, and from the port of discharge.

(3) Category I and Classified AA&E.

(a) Meet all requirements of categories II through IV above.

(b) Supercargoes are mandatory for classified AA&E.

(c) DD Form 1911.

NOTE: The shipper must coordinate through transportation channels with the OPM, HQ, 21st TSC, to obtain MP and host-country security services for intransit security operations on barges (supercargoes).

g. Security Risk Codes. SRCs (table 19) are based on the CIIC and are extracted from the DOD Consolidated Ammunition Catalog.

Table 19
Security Risk Codes

Code	Security Risk
1	Highest Sensitivity (Category I)
2	High Sensitivity (Category II)
3	Moderate Sensitivity (Category III)
4	Low Sensitivity (Category IV)
5	Highest Sensitivity (Category I) Secret Item
6	Highest Sensitivity (Category I) Confidential Item
7	Unclassified
8	High Sensitivity (Category II) Confidential Item
P	Pilferable Item
U	Unclassified

SECTION V
MOVEMENT OF BULK FUEL ADDITIONAL REQUIREMENTS

This section provides additional requirements applicable to bulk transport of class 3 in tanks. The requirements of sections I to III also apply.

37. GENERAL

Bulk fuels will be transported in design-approved, certified tank vehicles, demountable tanks (such as a tank and pump unit) or tank containers. All tank vehicles, vehicles carrying demountable tanks or tank containers, and their tanks will be certified according to the ECIP outlined in appendix C.

38. ADDITIONAL TRANSPORT DOCUMENTATION REQUIREMENTS

a. Identifying Unclean Tanks or Tank Vehicles in Transport Documents.

(1) Road. For empty, unpurged demountable tanks, tank vehicles, or portable tanks, the PSN will be EMPTY TANK-VEHICLE, EMPTY DEMOUNTABLE TANK, EMPTY PORTABLE TANK, or EMPTY TANK CONTAINER, as appropriate, followed by the class number and the letters "ADR." This is followed by a description of the last contents written as the words "last load" with the U.N. number and PSN of the goods last loaded. When using AE Form 55-4AA, the last load-statement would be written under the PSN. For example, the identification of an empty but unpurged tanker last containing JP4 would be EMPTY TANK-VEHICLE, 3, ADR, LAST LOAD: 1863 FUEL, AVIATION, TURBINE ENGINE.

(2) Rail. The identification for rail is the same as for road, except that the last-load statement must also include the top number from the orange rectangular numbered plates with the U.N. number. For the JP4 example above, the identification would be EMPTY TANK-VEHICLE, 3, ADR, LAST LOAD: 33 1863 FUEL, AVIATION, TURBINE ENGINE.

b. DD Form 626. A DD Form 626 inspection must be completed before loading the tank and the completed form must be in the transport unit while the tank is loaded.

39. MARKING TRANSPORT UNITS

a. Table 20 provides the markings required for specific types of fuels currently used. For the marking and placarding of other fuels or hazardous liquids in tanks, the servicing DGA should be contacted for assistance.

b. Diamond red flame placards (app G, placard 3) will be affixed to both sides and the rear of each vehicle with a tank.

c. Two basic configurations are possible for the orange rectangular warning plates (app G, fig G-2) on a transport unit carrying one product, as shown in figures 3 and 4.

d. If more than one product is transported on a transport unit, each product must be identified with the numbered plates on both sides of the respective tanks or tank compartments. Plain orange plates are placed on the front and rear (fig 5).

e. An allowance is made for multiple fuels transported on the same transport unit. If the transport unit is carrying combinations of only U.N. numbers 1202, 1203, 1223, and 1863, the transport unit may be marked on the front and the rear with the numbered orange plate that represents the fuel with the lowest flashpoint. The order of precedence is 1203, 1863 (JP4), 1863 (JP5), 1223/1863 (JP8), and 1202. No other orange plates are required on the vehicle. The configuration is similar to figure 4.

40. BULK MATERIALS NOT LISTED

Bulk materials not listed will not be transported without specific authorization and guidance from a certified individual.

41. SPECIAL ROUTING REQUIREMENTS IN GERMANY

a. MOGAS and JP4 bulk-fuel-tank transport units must travel as much as practical by autobahn. Where that is not possible, they must carry a valid march credit issued through the servicing HMCT.

b. For standing routes (for example, from a POL farm to a specific facility), a long term routing may be established using a standing transportation movement request through the servicing HMCT.

c. Route determinations or the standing transportation movement release will be carried in the transport unit during the transport.

d. The carrier and the receiver will jointly determine responsibility for obtaining the document.

42. FUEL TANKER TRANSPORT BY RAIL

a. MOGAS and JP4 tankers must be drained and purged when transported by rail. When the tank compartment and pump system is drained and purged, the vehicle is not a dangerous goods transport. A purge certificate will be issued by the purging facility.

b. JP8 and diesel tankers must be either full or empty. If empty, it is not required to be purged. Partially full tanks are forbidden because the movement of the liquid adversely affects the railcar stability.

c. Railcars carrying bulk-fuel tankers do not require their own placards unless the vehicle placards are not visible from both sides of the railcar.

d. The applicable AIS must be provided with the freight warrant. An additional AIS set should be kept in the cab of the transport unit for use at the destination.

Table 20 **Transport Unit Markings (note)**		
Type Fuel (PSN (uppercase)) (Packing Group)	**Orange Rectangular Warning Plate Hazard and Identification Number**	**Placards**
JP8 Class 3 KEROSENE or Class 3 FUEL, AVIATION TURBINE ENGINE III	 	Placard 3 on both sides and rear of the vehicle
JP4 Class 3 FUEL, AVIATION TURBINE ENGINE II		Placard 3 on both sides and rear of the vehicle
JP5 Class 3 FUEL, AVIATION TURBINE ENGINE III		Placard 3 on both sides and rear of the vehicle
Diesel (DF2) Class 3 DIESEL FUEL III		Placard 3 on both sides and rear of the vehicle
Heating oil Class 3 HEATING OIL, LIGHT III		Placard 3 on both sides and rear of the vehicle
MOGAS (Benzine) Class 3 GASOLINE or MOTOR SPIRIT II		Placard 3 on both sides and rear of the vehicle
NOTE: Table 16 provides NATO fuel codes.		

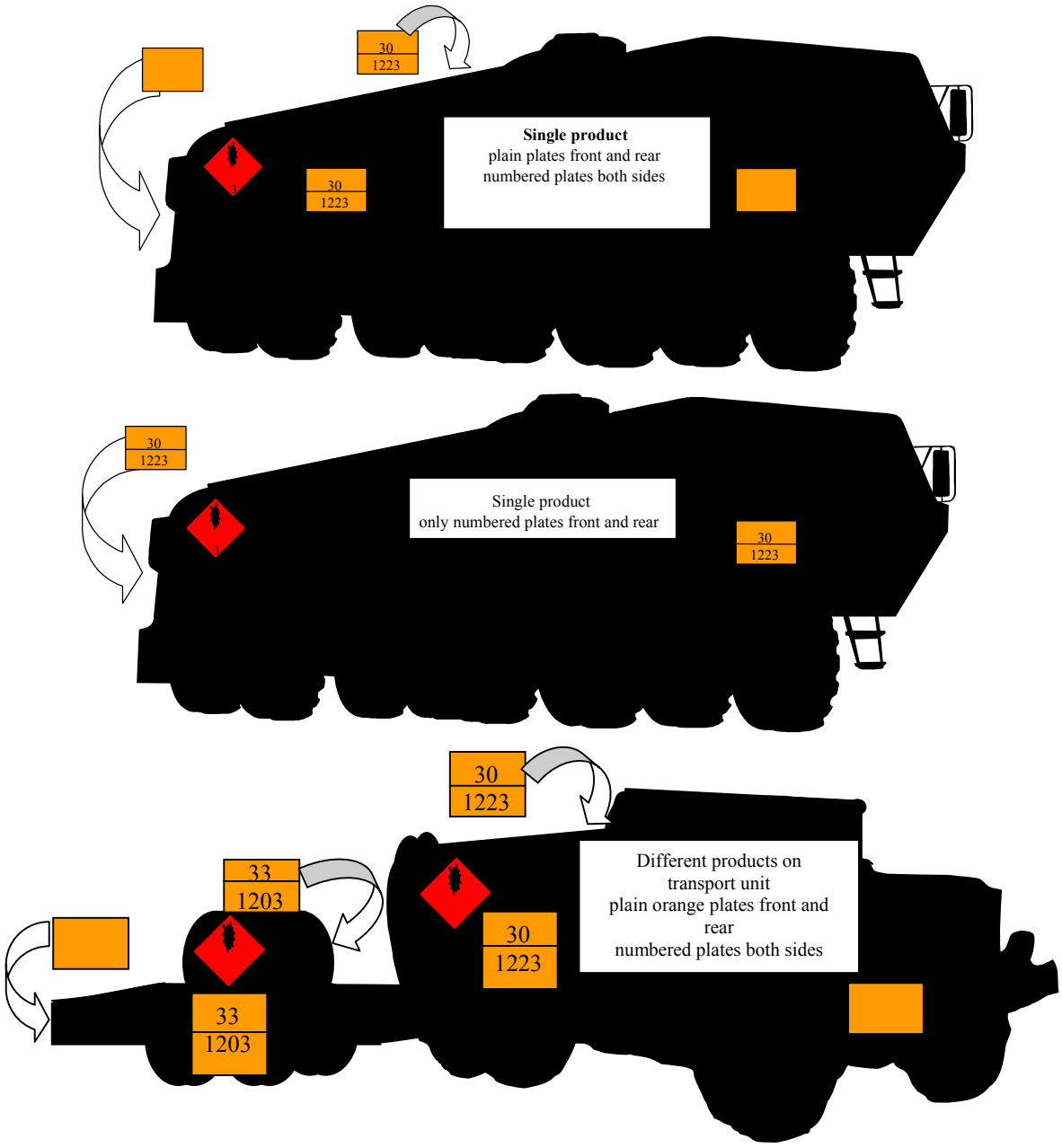


Figure 3. Basic Configuration for Orange Rectangular Warning Plates, Example 1 (top)

Figure 4. Basic Configuration for Orange Rectangular Warning Plates, Example 2 (middle)

Figure 5. Multiproduct Configuration for Orange Rectangular Warning Plates, Example 3 (bottom)

SECTION VI
CLASS 7 RADIOACTIVE MATERIALS TRANSPORT REQUIREMENTS

43. GENERAL
Radioactive commodities deployed with a unit are considered carriage. Safety rules implemented by this publication must be followed.

a. Radioactive commodities sent for repair, calibration, transfer to another location or unit, or reassignment to the radioactive material consolidation point are considered as being transported.

b. Before accepting items for transportation and carriage, items will be double-bagged using clean plastic bags. If the integrity of packagings is compromised or suspected to be compromised, swipe tests will be initiated and transport will be authorized only if the results are within the range specified in paragraph 44.

(1) On any external surface of the package, the radiation level will not exceed 2 microSv/h (200 millirem/hour).

(2) At 1 meter (3 feet) distance from the package, the radiation level will not exceed 0.1microSv/h (10 millirem/hour).

c. The item manager who has physical control over the item will package radioactive material according to the technical packaging provisions of the particular item and initiate a swipe test as necessary before the movement of radioactive material or instruments containing radioactive material (carriage or transportation).

NOTE: MC-1 and Troxler soil moisture density gauges require a special permit and special conditions to transport. The unit DGA must be contacted when planning to move these items.

44. PREPARING ITEMS FOR TRANSPORT
Table 21 provides limits on multiple-item packages. When preparing radioactive material for transport--

a. Ensure the swipe-test results meet the following limits:

(1) Below 0.4 Becquerels (Bq) per square centimeter for beta, gamma, and low-toxicity alpha emitters.

(2) Below 0.04 Becquerels per square centimeter for all other alpha emitters.

b. Place item in a clean, strong plastic bag and tape the bag shut.

c. Place the bagged item in another clean, strong plastic bag and tape the bag shut.

d. Place the double-bagged item in a strong, tight container. A strong, tight container may be one of the following:

(1) A strong corrugated cardboard box with seams taped shut.

(2) A wooden crate that is banded on all sides with the seams caulked shut.

(3) A hard plastic carton or drum with a sealed lid.

(4) A metal drum with sealed lid.

(5) A MILVAN or Sea/Land container.

45. PROTECTION
Items will be placed in a strong, tight container in such a way that they will not shift. The container will be sealed shut.

46. INFORMATION
Inside the container, the following information will be provided:

a. Shipper’s and receiver’s names.

Table 21 Package Multiple-Item Limits (note)				
Nuclide	**Item**	**Activity**	**Activity**	**Total Number of Items**
Tritium		8 TBq	200 Ci.	Shipped in one package
	M1 Collimator	370 GBq	10 Ci.	20
	Muzzle Reference Sensor	370 GBq	10 Ci.	20
	AP Light, M58	330 GBq	9 Ci.	20
	AP Light, M59	330 GBq	9 Ci.	20
	Telescope, Mounted	190 GBq	5 Ci.	40
	HF Mechanism	120 GBq	3.2 Ci.	60
	M140 Boresight Device	110 GBq	3.0 Ci.	60
	Telescope, Elbow	59 GBq	1.6 Ci,	100
	Compass, Lensatic	7GBq	0.2 Ci	1,000
Am-241		400 GBq	10 Ci.	
	M43A1	9.3 MBq	250 µCi.	40,000
Ni-63		40 TBq	1,000 Ci.	
	CAM	370 MBq	10 mCi.	100,000
NOTE: GBq = gigabecquerel, MBq = megabecquerel, TBq = terabecquerel, Ci = curie				

b. Shipper's and receiver's addresses.

c. Shipper's and receiver's telephone numbers.

47. STATEMENTS

a. If the item is an instrument or article, include the following statement on the shipping paper (this statement will also be placed inside each container holding radioactive materials):

"This package conforms to the conditions and limits specified in 49 CFR 173.424 for RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS OR ARTICLES, UN 2911."

b. If the items are wipe-test gloves and barrier or kraft paper that may have been contaminated during wipe testing, transport with the following statement:

"This package conforms to the conditions and limits specified in 49 CFR 173.421 for RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, UN 2910."

c. On the manifest, the line for the description for the container will include the following:

(1) For instruments or articles: "2911 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS OR ARTICLES, 7, *ADR* (or *RID*)."

(2) For contaminated items except as otherwise identified by the intended receiver: "UN 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, *ADR* (or *RID*)."

48. ITEM MANAGER RESPONSIBILITIES
Item managers will--

a. Notify the carrier and the loading activity, as appropriate, about the U.N. number, PSN, class, item number, and paragraph of the HAZMAT table (table 15), and whether a routing is required according to applicable host-country regulations (for example, in Germany, the *GGVSE*).

b. Prepare and present the proper shipping documents that include the PSN, the hazard class, the item number, and the paragraph in the HAZMAT table (table 15), as appropriate.

c. Ensure the carrier receives written instructions concerning the handling and movement of the goods transported (such as AE Form 55-4AA; the AIS; international instructions for the driver in the driver's language, the language of the originating country, the languages of each country transited, and the language of the destination country; and other forms as appropriate).

49. LOADER RESPONSIBILITIES
Loaders will--

a. Brief the driver concerning the nature of the goods, including the PSN, hazard class, item number, and paragraph of the HAZMAT table (table 15) and whether a routing is required according to applicable host-country regulations (for example, for Germany, the *GGVSE*).

b. Release only goods that are authorized for road movement under the provisions outlined in this publication and as approved by the appropriate military competent authority (USAMC-E for the U.S. Army). If the material is not listed in this publication, permission for the movement may be requested through host-country movement control cells. In Germany, permission must be requested from the *Streitkräfteamt* of the German *Bundeswehr* through the appropriate HMCT.

c. Before releasing packaged radioactive goods, inspect to see if spillage or damages occurred. If spillage or damage is found, not release these goods until the deficiency is fixed. This also applies to empty packages.

d. Release or move repacked or resealed items only if the seal of the package meets DOD packaging standards applicable to the safe movement of these goods. Training Circular 38-3/Air Force Pamphlet 24-205 and Air Force Instruction 24-202 apply in this case.

e. Release radioactive items in containers only if the carriage is according to DOD instructions and instructions in this publication. Vehicle specifications in this publication must be met.

f. Ensure AISs and written instructions applicable to the safe movement of radioactive material are given to the driver. Ensure that the driver understands these instructions by obtaining the driver's signature on receipt of the briefing on the transport document. The AIS must be in the language of the driver, the originating country, countries transited, and the destination country.

g. Load items and packagings that react to moisture onto closed or sheeted vehicles.

h. Clean vehicles and containers before loading.

i. Consult the DGA if packages or loads are mixed with other hazardous commodities or other radioactive materials or instruments.

j. Mount the proper placards on the outside of containers and vehicles.

50. RECEIVER AND CONSIGNEE RESPONSIBILITIES
The receiver or consignee will--

a. Remove or cover the transport unit orange warning plates when the transport asset is empty.

b. Instruct the driver concerning the route on the installation and any safety rules applicable to the transport and handling of the radioactive material on the military installation.

c. Ensure the vehicle and packages are decontaminated after use, if required.

51. PRODUCER OF PACKAGING MATERIAL
Units producing packaging material or overpacks for radioactive material will follow applicable DOD packaging instructions. DOD packaging instructions comply with U.N. recommendations. Marking and labeling of this packaging material will also conform to DOD regulations. Personnel producing this packaging material must be properly trained.

52. THE DRIVER AND CONSIGNEE

a. If on a vehicle or container loaded with radioactive material after unloading some contents are found to have escaped, the vehicle will be decontaminated as soon as possible and in any case before re-loading. Limits are as follows:

(1) For beta, gamma, and low-toxicity alpha emitters:

(a) 0.4 Bq/cm² ($10^{-5\mu}$Ci/cm²) for consignments that also include excepted packages or nonradioactive goods.

(b) 4.0Bq/cm² (10^{-4}µCi/cm²) for all other consignments.

(2) For all other alpha emitters:

(a) 0.04 Bq/cm² (10^{-6} µCi/cm²) for consignments that also include excepted packages and nonradioactive goods.

(b) 0.4 Bq/cm² (10^{-5}µCi/cm²) for all other consignments.

(3) Vehicles, equipment, or parts of these items that have become contaminated above the limits in (1) and (2) above, or that show a surface radiation level in excess of 5 µSv/h (0.5 millirem/hour), will be decontaminated as soon as possible and before reuse to a radiation level--

(a) Not exceeding the limits in (1) and (2) above.

(b) Of under 5 µSv/h (0.5 millirem/hour) at the surface due to fixed contamination.

b. On arrival at the unloading site, the vehicle and its driver will comply with regulatory provisions concerning safety, cleanliness, and safe operational procedures of vehicles and equipment used in offloading. The routing instructions of the consignee will be followed.

c. A vehicle or container will not be offloaded if an examination of the documents or a visual inspection of the vehicle shows that the documents or vehicles are not in compliance with regulatory provisions and might affect the safety of the offloading. The unit radiation safety officer will be consulted for further instructions if the radiation contamination is measured beyond the allowable limits.

53. OWNER OF PACKAGINGS RESPONSIBILITIES

Owners of packagings will ensure that--

a. Uncleaned packagings are carried in leakproof packagings.

b. Uncleaned empty packages that contained water-wetted substances are not accepted for transportation unless the residues are so packed that the contents of water or other phlegmatizers added to the substances to render them inert cannot diminish.

c. If empty uncleaned packagings are bags, the bags are placed in boxes or waterproof bags to prevent the substance from leaking.

d. Other empty, uncleaned packagings are closed in the same way and present the same degree of leakproofing as if they were full.

e. Empty, uncleaned packagings bear the same inscriptions and danger labels as if they were full.

54. PARKING

Vehicles must be supervised according to the special provisions of table 15. In any other case, parking is only allowed in parking lots identified by installation commanders and routing authorities (for example, HMCTs).

55. PROCEDURES FOR RECEIVING AND OPENING PACKAGES

a. Each licensee who expects to receive a package containing quantities of radioactive material in excess of a type A quantity as defined in table 22 will make arrangements to receive one of the following:

Table 22 A1 and A2 Values for Radionuclides (note)	
A1	0.2 TBq
A1	5 Ci
A2	0.02 TBq
A2	0.5 Ci
NOTE: These figures will be used when only beta- or gamma-emitting nuclides are known to be present.	

(1) The package when the carrier offers it for delivery.

(2) Notification of the arrival of the package at the carrier's terminal so that the licensee can take possession of the package expeditiously.

b. Each licensee will--

(1) Monitor the external surfaces of a labeled (3a) package for radioactive contamination unless the package contains only radioactive material in the form of a gas or in special form.

(2) Monitor the external surfaces of a labeled 3a package for radiation levels unless the package contains quantities of radioactive material that are less than or equal to the type A quantity as defined in table 22.

(3) Monitor all packages known to contain radioactive material for radioactive contamination and radiation levels if there is evidence of degradation of package integrity, such as packages that are crushed, wet, or otherwise damaged.

(4) The licensee will perform the monitoring required by (2) above as soon as practical after receiving the package, but not later than 3 hours--

(a) After the package is received at the licensee's facility if it is received during the licensee's normal workhours.

(b) From the beginning of the next workday if the package is received after the licensee's normal workhours.

c. The licensee will immediately notify the final delivery carrier and the Operations Center, United States Nuclear Regulatory Commission, by telephone (301-816-5100) if removable radioactive surface contamination exceeds the limits--

(1) For beta and gamma emitters and low-toxicity alpha emitters: 0.4 Bq/cm^2, 10^{-5} uCi/cm^2, or 22 decompositions per minute (dpm)/cm^2.

(2) For all other alpha-emitting radionuclides: 0.04 Bq/cm^2, 10^{-6} uCi/cm^2, or 2.2 dpm/cm^2.

d. For external radiation levels exceeding the limits of paragraph 43, each licensee will--

(a) Establish, maintain, and retain written procedures for safely opening packages in which radioactive material is received.

(b) Ensure that procedures in (a) above are followed and that due consideration is given to special instructions for the type of package being opened.

NOTE: Licensees transferring special form sources in licensee-owned or -operated vehicles to and from a worksite are exempt from the contamination monitoring requirements of subparagraph b(2) above but are not exempt from the requirement to measure radiation levels required to ensure that the source is still properly lodged in its shield.

56. DETERMINING A1 AND A2 VALUES

a. Table 22 provides A1 and A2 values for individual radionuclides, which are the bases for many activity limits in this publication. The Ci values specified are obtained by converting from the TBq figure. Ci values are expressed to three significant figures to ensure that the difference in TBq and Ci quantities is 1/10 of 1 percent or less. Where values of A1 or A2 are unlimited, it is for radiation-control purposes only. For nuclear safety, some materials are subject to controls placed on fissile material.

b. For individual radionuclides with known identities, but not listed in table 22, the determination of A1 and A2 values requires approval from the United States Nuclear Regulatory Commission. The A1 and A2 values in table 23 may be used without obtaining approval from the United States Nuclear Regulatory Commission.

c. To calculate the A1 and A2 values for a radionuclide not in table 22, a single radioactive decay chain in which radionuclides are present in naturally occurring proportions, and in which no daughter nuclide has a half-life either longer than 10 days or longer than that of the parent nuclide, will be considered as a single radionuclide The activity to be taken into account and the A1 or A2 value to be applied will be those corresponding to the parent nuclide of that chain. In the case of radioactive decay chains in which any daughter nuclide has a half-life of either longer than 10 days or greater than that of the parent nuclide, the parent and daughter nuclides will be considered as mixtures of different nuclides.

d. For mixtures of radionuclides with identities and respective activities that are known, the following conditions apply:

(1) For special form radioactive material, the maximum quantity transported in a type A package where B(i) is the activity of radionuclide I and A1(i) and A2(i) is the A1 and A2 values for radionuclide I, respectively.

(2) An A1 value for mixtures of special form material may also be determined where f(i) is the fraction of activity of nuclide I in the mixture and A1(i) is the appropriate A1 value for nuclide I.

(3) An A2 value for mixtures of normal form material may be determined where f(i) is the fraction of activity of nuclide I in the mixture and A2(i) is the appropriate A2 value for nuclide I.

e. If the identity of each radionuclide is known, but the individual activities of some of the radionuclides are not known, the radionuclides may be grouped and the lowest A1 or A2 value, as appropriate, for the radionuclides in each group may be used in applying the formulas in subparagraph d above. Groups may be based on the total alpha activity and the total beta and gamma activity when these are known using the lowest A1 or A2 values for alpha emitters and beta the gamma activity.

NOTE: 10 mCi MRS and M1A1 collimators exceed the A1 limit but are in gaseous form and therefore exempted in subparagraph d(1) above. Calibrators may exceed these limits.

Table 23
General Values for A1 and A2 (note)

A1	0.10 TBq
A1	2.70 Ci
A2	2x10-5 TBq
A2	5.41x10-4 Ci

NOTE: These figures will be used when alpha-emitting nuclides are known to be present or when no relevant data is available.

Section VII
DANGEROUS GOODS ADVISER

57. GENERAL
Each organization moving, handling, storing, or disposing of HAZMAT must have a program to safely move dangerous goods. This program is required to avoid accidents, injury, and damage to the environment. The DGA will monitor the transportation aspects of this program.

58. RESPONSIBILITIES

a. For the purpose of this publication as implementing the requirements under European Union Dangerous Goods Adviser Directive, the *ADR*, and the *RID*, the Commander, USEUCOM, is designated as the "entrepreneur" on behalf of the U.S. Forces in Europe.

b. For the purpose of this section, "commanders" means commanders at all levels below the Commander, USEUCOM. Section I provides responsibilities for specific command levels. Commanders--

(1) Have overall responsibility for operations under their control. The commander will define missions and functions and delegate to subordinate sections managed by responsible individuals the responsibility for the preparation of dangerous goods for storage, disposal, transportation, loading, and unloading.

(2) Will correct deficiencies through responsible individuals during the movement of HAZMAT. Commanders will rely on DGAs and responsible individuals to ensure that deficiencies are identified and, if possible, corrected on the spot.

(3) Will provide responsible individuals and DGAs access to required training and all publications they need to perform their assigned functions.

(4) Will appoint DGAs in writing and explain the scope of DGA duties and responsibilities in a DGA program charter. The commander remains ultimately responsible for the proper conduct of the DGA program.

(5) Will review annual DGA reports and submit reports to the appropriate office at the next-higher USAREUR command or USAFE MAJCOM by 15 January each year. Commanders will keep reports on file for at least 5 years.

(6) Will provide enough funds for initial and recurring training requirements.

(7) Will provide the basic laws, regulations, informational material, and training aids to DGAs to allow them to perform their duties.

c. The DGA is responsible for the duties in subparagraph h below. DGAs should have at least 2 years retainability in their position after it is chartered. DGAs may be appointed for several different functions or for a specific function. Figure 6 provides information that must be included in the appointment orders. DGAs may be trained in some or all aspects of the movement of dangerous goods (sea, air, road, rail, inland waterways, disposal) as determined by the commander.

(1) DGA functions will be integrated into existing HAZMAT responsibilities. The addition of DGAs is an "expert" functional enhancement to European transportation, not a new administrative position requirement. It is possible to split DGA responsibilities between individuals as long as their individual charters clearly indicate the division of responsibility and their cooperative effort.

(2) For USAREUR organizations, the term "DGA" in this publication covers two responsibilities. Down to brigade and ASG level, the DGA is a specific functional responsibility, requiring DGA certification. Below brigade level, the term refers to individuals trained as certifiers under the *ADR* and *RID*, and *ADN* when necessary.

(3)The DGA appointment supplements but does not replace the separate USAREUR unit-movement dangerous-goods-certifier requirement, which requires two individuals per unit. These individuals appointed as certifiers in Europe will, as a minimum, also be trained to certify according to this publication.

(4) Organizations with appointed DGAs and certifiers will maintain ready access to current editions of dangerous-goods-transportation directives. These include AFMAN 24-204/TM 38-250, the IMDG Code, the *ADR*, the *RID*, and (if necessary for mission requirements) the *ADN*, and the *ADNR*. Appendix F provides commercial sources for these documents.

d. Responsible individuals--

(1) Are officers and management personnel designated as responsible to the commander for day-to-day operations involving dangerous goods. In conjunction with the responsibilities described in section I for unit commanders, this includes preparing dangerous goods for shipment, storage, disposal, loading, transport, and unloading operations.

1. The appointment will be by the commander of the serviced organization.

2. Appointment orders will specify the following:

a. The identification of the appointed individual and their organization.

b. The identification of responsible individuals with which the DGA must work, report findings, and recommendations.

c. The identification of the higher-headquarters DGA.

3. Appointment orders will identify any limits in duties, such as modes of transportation, or duties specifically not assigned. Unless the duties are assigned to an appointed DGA, the commander assumes responsibility for the function.

4. Appointment orders will specify the following duties unless modified under the provisions of paragraph 3:

a. Monitoring compliance with the rules governing the transport of dangerous goods.

b. Reporting to responsible individuals all deficiencies affecting the safety of the transport of dangerous goods. If the responsible individual fails to act in a timely manner, the DGA will immediately report in writing to the commander. In matters affecting safety with higher-level interest, the DGA will notify the next-higher-command DGA at the same time.

c. Advising the commander, responsible individuals, and others in the organization on the transport of dangerous goods.

d. Preparing an annual report for the commander, responsible individuals, and higher-headquarters DGA on their activities, including the following:

(1) Matrix of mass (metric tons) of dangerous goods transported by class and transportation mode, divided into the following categories: UP TO 5 TONS; MORE THAN 5 TONS - UP TO 50 TONS; MORE THAN 50 TONS - UP TO 1,000 TONS; MORE THAN 1,000 TONS.

(2) Number and type of accidents involving dangerous goods that required an accident report under DGA requirements.

(3) Other details that are important for the commander’s assessment of transportation-system risks.

NOTE: This report will be kept for at least 5 years.

e. Monitor the following procedures and practices:

(1) Procedures for compliance with regulations governing the identification of dangerous goods being transported.

(2) Procedures used in relaying special requirements to contract carriers and other activities supporting the mission.

(3) Procedures used for checking the equipment used to load, transport, and unload dangerous goods.

(4) The proper training of the appropriate personnel and the maintenance of training records.

(5) Implementation of proper emergency procedures in case of an accident during the loading, transport, and unloading of dangerous goods.

(6) Investigating and, where appropriate, preparing reports on serious accidents, incidents, or serious infringements recorded during the loading, transport, and unloading of dangerous goods. Figure 7 provides a suggested format for accident reports.

(7) Implementation of appropriate measures to avoid the recurrence of accidents, incidents, and serious infringements.

(8) Verification that personnel involved in the loading, unloading, and transport of dangerous goods have detailed operational procedures and instructions.

(9) The introduction of measures to increase awareness of risks inherent in the loading, transport, and unloading of dangerous goods.

(10) Implementation of verification procedures to ensure the presence of all required documents and protective equipment that must accompany the transport and the compliance of that documentation and equipment with regulations.

(11) Implementation of verification procedures to ensure compliance with the rules governing loading and unloading.

5. The appointment will identify any special-emphasis tasks or high-risk operations that require more frequent attention.

6. If the DGA responsibility is an additional duty, the appointment orders will identify the basic duties or functions that the DGA must perform during the term of the appointment.

Figure 6. DGA Appointment Orders

ACCIDENT REPORT CHECKLIST

1. Date of the accident.

2. Time.

3. Specific location.

4. Dangerous goods involved, including the PSN, U.N. number, quantity, and type of U.N. or performance-oriented packaging (POP) packages.

5. If bulk, the type and model of the vehicle and tank involved.

6. A determination if the packaging contributed to the accident.

7. Type of transport unit.

8. Description of the accident and recommendations: what happened, what caused it to happen, how did the HAZMAT contribute to the severity, what measures need to be taken to prevent the accident or reduce the severity, what other noncontributing issues were found that were important for operations.

9. Quantity of dangerous goods released in kilograms. If class 7, the activity and chemical symbol of the radionuclide.

10. Was there a fire, explosion, or fire following an explosion (if not specified in para 8)?

11. Extent of injury to individuals, animals, property, or the environment.

12. Other details not otherwise listed.

13. Report date and signature.

NOTE: This report may be in a different format (such as a 15-6 investigation report or an existing safety or fire investigation report) as long as the information in paragraphs 1 through 13 is included in the report. The DGA will maintain a copy of the report.

Figure 7. Accident Report Checklist

(2) Will initiate training and issue operating procedures for other responsible individuals under their control. A commander may have more than one responsible individual if the functions are split.

(3) May be in the logistics, medical, bioenvironmental, or operations area. The duty may be associated with the personnel executing unit movement duties.

(4) Will be trained to the same standard as DGAs for the transportation modes they supervise. Responsible individuals do not require certification.

e. Other responsible individuals include all other individuals responsible for tasks concerning the preparation of dangerous goods for shipment (such as packaging or container loading), vehicle loading, transport (such as driving), storage, disposal, and unloading. These individuals will be trained to the degree necessary to understand the risks involved, their part in minimizing transportation risks, and the proper procedures to be followed for performing their function.

f. DGAs will--

(1) Monitor the compliance with HAZMAT regulations throughout the organization through other responsible individuals (appointed by unit commanders) and through otherwise responsible personnel (for example, certifiers, drivers).

(2) Maintain documentation on their monitoring duties, including the date of the inspection, name of the inspected person or unit, and type of processes inspected (for example, certification, packaging, loading).

(3) Maintain the list of personnel appointed as other responsible individuals or appointed by job description (for example, certifiers, packers). Maintain the training status of these appointed personnel and keep official records of each training session for 5 years for all personnel receiving dangerous-goods training. Records will include dates of training, the duration and contents of the training, and the individual and organization performing the training. Records will be transferred if the individual changes organizations.

(4) Initiate and monitor reports on deficiencies, incidents, and accidents concerning the safe movement of HAZMAT.

(5) Compile report data and compose the annual report for the period 1 October through 30 September. The report must include the type and amount of HAZMAT moved, mode of movement, type of pack used, type of vehicles used, number of personnel involved, facilities used for loading and transshipping, completed training (date, and name of trainees), and special events (for example, mishaps).

(6) Maintain all records and documents on file for at least 5 years.

(7) Assist responsible individuals in training appointed unit personnel in the safe handling of HAZMAT.

(8) Develop and monitor duties of other responsible individuals.

(9) Consult with the installation commander and responsible individuals as necessary.

(10) Coordinate measures to correctly implement and execute laws, policy, regulations, and operating instructions.

(11) Inform command DGAs immediately of program deficiencies found during the inspection of the program at unit level.

(12) Coordinate all unit requests for waivers to regulations for the safe movement of dangerous goods, and ensure waiver requests are correct and complete.

g. In conjunction with the responsibilities described in section I, the USAREUR DGA, Safety Division, Office of the G1, will--

(1) On behalf of the Commander, USEUCOM, coordinate the management of the DGA programs of subordinate commands based on this and other applicable publications and on command and host-country policy and agreements.

(2) Cooperate with command functions to determine functional objectives and policy for the DGA Program.

(3) Establish, plan, and design the general contracting statement of work for common training courses required for the safe movement of HAZMAT by road and rail.

(4) Monitor training sources for compliance with the general statement of work.

(5) Cooperate in processing waivers to host-country requirements.

(6) Support and consult with other command DGAs on their duties.

(7) Complete the annual report for the U.S. Forces stationed in Europe on the movement of HAZMAT. This report is due on 31 March each year.

(8) Conduct workshops as necessary.

(9) Help analyze accidents and incidents. If required, make recommendations to prevent the basic causes of accidents and incidents.

(10) Monitor corrective actions if regulatory changes must be made.

(11) Support the JHMSC.

h. DGAs at USAREUR major subordinate and tenant commands and at USAFE MAJCOMs will--

(1) On behalf of the CG, USAREUR/7A, and the CG, USAFE, coordinate the management of the dangerous goods program of subordinate commands and organizations based on this and other applicable regulations and on USEUCOM and host-country policy and agreements.

(2) Determine and implement goals and objectives to meet regulatory requirements and policy for the Dangerous Goods Program.

(3) Monitor the training program of subordinate organizations.

(4) Monitor training sources for compliance with the general statement of work.

(5) Coordinate waivers to host-country requirements.

(6) Support and consult with other subordinate DGAs in their duties.

(7) Complete the annual report for the command area of responsibility on the movement of HAZMAT. This report is due on 31 January each year.

(8) Conduct workshops as necessary.

(9) Help analyze accidents and incidents. If required, make recommendations to prevent the basic causes of accidents and incidents.

(10) Monitor corrective actions if regulatory changes have to be made.

i. Each installation commander moving HAZMAT will appoint (in writing) a responsible individual for the organization's HAZMAT movement program. The DGA will work directly with the responsible individual to accomplish the functions of the HAZMAT program. The written appointment must clearly define the responsibilities and duties of these individuals. Installations and units that move HAZMAT less than 10 times each year or less than 50 tons each year may use a DGA or responsible individual from another organization. The sharing installation or unit commanders must cosign the appointment orders. Responsible individuals are appointed based on their mission. Responsible individuals--

(1) Are authorized to execute the dangerous goods program on behalf of the commander and will ensure compliance with the rules for the safe movement of dangerous goods applicable to the mode of the movement.

(2) Will report any deficiencies they cannot correct to the installation commander.

(3) Will ensure other responsible individuals are trained and qualified in their specific duties.

j. Other responsible individuals will--

(1) Execute the orders of the responsible individual and, based on their mission or order, be responsible for the correct and safe movement of dangerous goods.

(2) Have basic knowledge of the following topics as applicable to their job:

(a) Classification of dangerous goods, including the procedures to determine mixtures and solutions, and the inherent dangers posed by each class.

(b) General U.N. packaging requirements and how packaging is determined for substances and articles.

(c) Package danger markings and labels, and how they are determined.

(d) Vehicle or transport unit marking and placarding, and how it is determined.

(e) References and required statements and declarations in transport documents, and how they are determined.

(f) Restrictions on methods of dispatch, including containers, tanks, rail wagons, and vessels.

(g) Restrictions on crew personnel and passengers.

(h) Restrictions and prohibitions against mixed loading and how they are determined.

(i) Segregation of substances and how it is determined.

(j) European and international definitions of limited and exempted quantities, the limits of allowances, and how they are determined.

(k) Cargo handling and securing, including quantity limits and tank-filling limits.

(l) Cleaning before loading and after unloading.

(m) Crew training and certification requirements.

(n) Papers to be carried and how to determine the requirement, including (as applicable according to the mode) the transport document, safety instructions, vehicle-approval certificate, training certification, waivers, and others documents as required.

(o) Personal- and vehicle-protection equipment.

(p) Parking surveillance requirements.

(q) Traffic and navigation restrictions, including routing.

(r) Operational and accidental discharge of pollutants.

59. DGA AND RESPONSIBLE INDIVIDUAL TRAINING

a. DGAs may only be appointed for a transportation mode when they have completed official training and testing, and have received certification for that mode. A European military certificate of training is valid for 5 years after the date of certification. The certificate may be extended for another 5 years on successful completion of a refresher course and examination. Annual update training is required to review fundamentals and modal regulation changes. National commercial certifications are valid according to the issuing country’s national regulations. The original certification-issuing organization is responsible for extensions.

b. Responsible individuals must have detailed knowledge in their area of responsibility on the safe movement of hazardous goods. This knowledge must be updated by recurrent refresher training. The appointment as a responsible individual must not take place until the individual is trained to the same or higher program of instruction as a DGA in the applicable modes. Training may be done by the DGA. Refresher training should be done at least every 2 years.

c. Other responsible-individual training is job-specific and the responsibility of the local commander. Responsible individuals must have--

(1) Detailed knowledge on regulations involved in the safe movement of HAZMAT and about the dangers and possible injuries that can result from accidents and incidents during the movement of dangerous goods. This knowledge must be obtained by recurring training provided by the DGA. Refresher training should be done at least every 2 years.

(2) Completed the official DOD and USEUCOM training courses for the safe movement of dangerous goods by air, sea, rail, road, and inland waterways, as applicable.

APPENDIX A
REFERENCES

SECTION I
PUBLICATIONS

International Air Transport Association Dangerous Goods Regulations

International Maritime Dangerous Goods Code

Accord Européen relatif au Transport International des Marchandises dangereuses par Route (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

Règlement International concernant le Transport des Marchandises dangereuses (*RID*) (European Regulation Concerning the International Carriage of Dangerous Goods by Rail)

Gefahrgutverordnung Straße und Eisenbahn (German Ordinance on Transport of Dangerous Goods by Road and Railroad)

DOD 4500.9-R, part I, Defense Transportation Regulation (Passenger Movement)

DOD 4500.9-R, part II, Defense Transportation Regulation (Cargo Movement)

DOD 4500.9-R-1, Management and Control of the DOD Intermodal Container System

DOD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives

DOD 4500.54-G, Department of Defense Foreign Clearance Guide

Military Standard (MIL-STD) 129P, Standard Practice for Military Marking

MIL-STD 1386 series

AR 11-9, The Army Radiation Safety Program

AR 25-400-2, The Army Records Information Management System (ARIMS)

AR 190-11, Physical Security of Arms, Ammunition, and Explosives

AR 190-14, Carrying of Firearms and Use of Force for Law Enforcement and Security Duties

AR 385-64, U.S. Army Explosives Safety Program

Training Circular 38-3/Air Force Pamphlet 24-205, Guide for Basic Military Preservation and Packing

Military Handbook 138, Container Inspection Handbook for Commercial and Military Intermodal Containers

Air Force Instruction 24-202, Preservation and Packing

Air Force Instruction 91-207, The US Air Force Traffic Safety Program

Air Force Manual 24-204/Technical Manual 38-250, Preparing Hazardous Materials for Military Air Shipments

Air Force Manual 91-201, Explosives Safety Standards

Air Force Technical Order 11A1-46, Firefighting Guidance, Transportation, and Storage Management Data

Air Force Technical Order 11A1-61 series, Load Securing Guidance

USEUCOM Directive 64-1, Transportation Policy and Management

AE Regulation 55-355/USNAVEUR Instruction 4600.7G/USAFE Instruction 24-204, Joint Transportation and Traffic Management

AE Regulation 385-7, Respiratory Protection Program

USAREUR Regulation 55-1, United States Army Motor Vehicle Operations on Public Roads

USAREUR Regulation 190-13, The USAREUR Physical Security Program

USAREUR Regulation 190-62, Police and Investigation Services: Employment and Authority of Military Police, Unit Police, and Courtesy Patrols

USAREUR Regulation 200-1, USAREUR Environmental Quality Program

USAREUR Regulation 350-1, Training in USAREUR

USAREUR Regulation 385-10, Implementation of Hazard Communication Standard

United States Army Materiel Command Drawing 19-48-75-5

SECTION II
FORMS

DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials)

DD Form 1348-1A, Issue Release/Receipt Document

DD Form 1384-2, Transportation Control and Movement Document

DD Form 1387, Military Shipping Label

DD Form 1387-2, Special Handling Data/Certification

DD Form 1907, Signature and Tally Record

DD Form 1911, Materiel Courier Receipt

DA Form 581, Request for Issue and Turn-in of Ammunition

DA Form 2028, Recommended Changes to Publications and Blank Forms

DA Form 3151-R, Ammunition Stores Slip

Unit-Level Logistics System Form 5988E, Equipment Inspection Maintenance Worksheet

Air Force Form 1800, Operator's Inspection Guide and Trouble Report (General Purpose Vehicles)

AE Form 55-4AA, European Dangerous Goods Surface Transport Document (Road/Rail/Inland Waterway)

AE Form 55-355A, Freight Warrant Rail

AE Form 55-355D, Railcar Manifest

AE Form 55-355M, Import/Export Customs Declaration (Numbered)

APPENDIX B
TRAINING

B-1. GENERAL
Personnel who have not successfully completed the training prescribed by this publication will not undertake and will not be directed to undertake duties related to transportation of dangerous goods. Commanders will use trained and knowledgeable individuals to perform functions in the commander's name to ensure the minimum risk, compliance with regulations, and compliance with the law. These individuals will be held accountable for their actions.

B-2. GENERAL REQUIREMENTS

a. All individuals with duties that are part of the dangerous goods transportation process will be trained to a degree appropriate to their responsibility and duties. This training will include the following two areas as a minimum:

(1) Initial Training. All individuals dealing with dangerous goods will receive training using the basic hazardous communication (HAZCOM) training modules (USAREUR Reg 385-10).

(2) Function-Specific Training. Personnel will receive function-specific training according to their duties and responsibilities. This training will include the degree of risk associated with the goods they handle and risk-management requirements.

b. Personnel assigned to package dangerous goods must be trained in the proper package and packaging methods for the material. They will also be trained in marking and labeling if this is part of the packaging responsibility.

c. Personnel directing the loading of vehicles must be trained in load-compatibility and -restraint techniques.

d. Personnel who prepare transport documents or sign dangerous goods declarations on a shipping document or container-packing certificates must be trained and certified according to HAZ 12 (Hazardous Materials (-2) Certification Course) or the associated European surface-transportation training criteria for the mode of transportation involved.

e. Personnel who inspect and certify containers to CSC requirements must be trained and certified.

B-3. TRAINING COURSES AND REQUIREMENTS

a. HAZCOM training is provided by area support groups and is normally part of inprocessing training.

b. Function-specific training for duties other than the dangerous goods adviser (DGA), responsible individual, certifier, and driver is the responsibility of the organization. Training may be obtained from performance standards and regulations, other trained individuals, or the DGA.

c. Drivers are trained and certified by taking HAZ 11 (Hazardous Materials Driver Training Course) or through a commercial source and host-country certification process. The *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road) certificate (orange card) is the only legal proof of successful training. U.S. Forces courses authorized through the German Federal Ministry of Defense are available. Contractors cannot be certified through U.S. Forces schools. Certification is for all classes as packaged goods and in tanks except class 1 in tanks, and class 7. Drivers who must operate vehicles placarded for class 7 must receive special commercial *ADR* certification for class 7. Paragraph B-4 provides information on *ADR* certificates.

d. Certifiers, responsible individuals, and DGAs are trained using a combination of methods. HAZ 12 is the training and certification course for sea and air. HAZ 15 and HAZ 16, when in place, will train and certify for European road and rail certification. Inland waterway certification is provided under contract by exception. A very limited number of key personnel are certified for inland waterway movement.

e. DGAs and responsible individuals will be trained according to section VII. DGAs will be certified and appointed. Only persons with a USAREUR or European Community training certificate that is valid for the mode or modes of transport involved may be considered for certification as DGAs. Only DGA certificates issued by a U.S. Forces-certified program, the *Bundeswehr* (German Army), the German Ministry of Industry and Commerce, or the certifying authority of other host countries are valid. Certificates issued by the U.S. Forces are subject to limits imposed by countries outside Germany and are not valid for use outside the U.S. Forces. The certificate signifies completion of the necessary training and successful completion of certification tests.

f. The minimum DGA and responsible individual training requirement is the basic dangerous goods course, road transport (*ADR*), and rail transport (*RID*), which certifies individuals for road and rail movement. Certification is only required for additional transportation modes for which the appointing commander is responsible.

g. Responsible individuals may be graduates of HAZ 12 or a similar course who have knowledge of European ground transport regulations. The responsible individual must be able to present proof of training. Refresher training will be held routinely and may be performed by the DGA or other knowledgeable individual. Training records must be kept and will include the date, duration, and contents of the training.

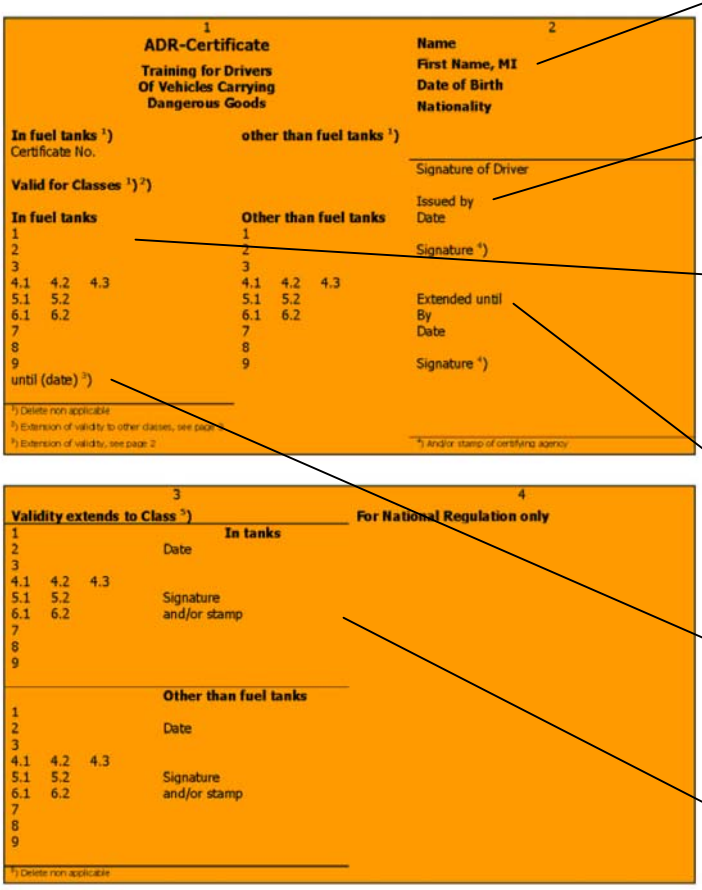
h. Persons signing transportation documents with certification statements, container-packing certificates, or dangerous goods declarations will be trained, certified, and appointed to that duty. Individuals signing these documents are personally responsible for ensuring that the shipment meets transportation standards. These individuals must know and understand the rules and must be able to confirm that all actions were correctly performed before closing the vehicle or container.

i. Personnel in positions or with duties that require access to DOD regulations and standards or international regulations must have access to current versions of these documents to verify correct application. This does not mean that all individuals and activities will have all documents on-hand. The documents required depend on the specific activities involved. Reference and working documents are the responsibility of the activity.

j. Container inspectors and certifiers are trained through the Container Certification Course (formerly HAZ 14) provided by the Seventh Army Combined Arms Training Center.

B-4. SAMPLE DRIVERS *ADR* CERTIFICATE

ADR certificates are issued by a national authority. Shippers who transfer dangerous goods to a driver for transport will verify that the individual assigned driver responsibilities, and the codriver (for class 1), have valid *ADR* certificates as required by this publication. The color of the certificate is usually orange but may vary with each country. The certificate should have the items shown in figure B-1. The shipper must verify these items. This requirement applies to U.S. Forces vehicle crews as well as commercial drivers.



The name and date of birth must be the same as that on the individual's drivers license and identification card.

The *ADR* certificate must have been issued by a national authority or a U.S. Forces-certified school or authority.

The *ADR* certificate is valid for the classes of goods indicated (packages on the left and tank vehicles on the right). Classes that are crossed out with an "X" are not authorized.

The *ADR* certificate may be extended past its original expiration date by a national authority. This section is not valid for U.S. Forces-issued certificates.

The original expiration date may not be more than 3 years after the date of issue for U.S. Forces-issued certificates.

The back of *ADR* certificate is used for additional class or tank authorizations. This part is not valid for U.S. Forces-issued certificates.

Figure B-1. *ADR* Certificate

APPENDIX C
EUROPEAN COMPLIANCE INSPECTION PROGRAM

C-1. PURPOSE AND BACKGROUND

This appendix provides procedures and standards for maintenance services, repairs, and inspections as required by host-country law.

a. The *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road) requires vehicles to be certified to carry certain types of hazardous material (HAZMAT).

b. In Germany, the European Compliance Inspection Program (ECIP) issues a hazardous material vehicle certification permit (HVCP) to indicate compliance with the vehicle-construction requirements of the *ADR*. This program is required in Germany, but will be used throughout the European theater to meet annual certification requirements until further notice.

C-2. GENERAL

a. The European Compliance Inspection Program (ECIP) certification process is a compilation of existing inspections and maintenance requirements with an accountable, controlled logistical stamp, and a certificate issued with appropriate signatures. Therefore, commanders, supervisors, and managers are required to implement the provisions of this appendix to standardize the certification process throughout the Army in Europe. These inspections allow a certificate to be issued that meets the vehicle periodic-inspection requirements of the *ADR* and host country.

b. The G4, USAREUR, will--

(1) Serve as the USAREUR primary agent on certification stamps issued between units and higher headquarters.

(2) Provide guidance for each command on ECIP inspection requirements and procedures.

(3) Provide guidance for ECIP inspection and documentation procedures for the central trailer fleet.

(4) Provide guidance for the issue and accountability of ECIP certification stamps.

c. USAREUR major subordinate and tenant commands (AE Reg 10-5, app A); area support groups of the United States Army Installation Management Agency, Europe Region; and USAFE major commands will--

(1) Appoint a command ECIP POC or responsible office.

(2) Ensure ECIP stamps are controlled, and accounted for as sensitive items, to not be reproduced.

(3) Provide guidance to and training for subordinate unit ECIP POCs on HVCP inspection requirements and procedures.

(4) Ensure ECIP procedures are part of all unit-maintenance standing operating procedures.

d. Unit commanders will--

(1) Appoint unit ECIP verifying officials in the rank of E4 or above in military occupational specialty (MOS) of 63B or 63S, or a DOD civilian or local national equivalent.

(2) Appoint a unit ECIP-certificate-issuing official in the rank of E7 or above in MOS of 63B/S/Z, a warrant officer in career management field 915, or a DOD civilian equivalent.

(3) Ensure a valid HVCP is maintained in all equipment logbook packets for wheeled vehicles. If the vehicle is a prime mover pulling a trailer, the trailer must be certified separately and the documentation maintained with that trailer so that the driver has access to it in case of a roadside spotcheck.

(4) Ensure a valid ECIP certificate is issued for demountable tanks and transportable tankpods.

e. Drivers will--

(1) Ensure a valid HVCP certificate is in their equipment logbook packet.

(2) Report any vehicle with a missing or expired ECIP certificate as nonmission-capable for HAZMAT missions.

C-3. APPLICABILITY

a. This requirement applies to all U.S. Forces stationed in or transiting through Europe in support of or under the command and control of USAREUR and USEUCOM. Vehicles and trailers under the command of or attached to USAREUR with the potential to transport HAZMAT will comply with this publication.

b. U.S. Army units will use Unit-Level Logistics System (ULLS) Form 5988E. U.S. Air Force units will use Air Force Form 1800.

C-4. PROCEDURES

a. The annual services inclusive of technical manual 10- and 20-series maintenance standard.

b. Annotation of the current brake test and when the next brake test is required.

c. Printed payroll signature of a verifying official in the rank of E4 or above with an MOS of 63B/S/Z, and the signature of the verifying official directly below the printed name.

d. The unit's certifying official, in the rank of E7 or above with an MOS of 63S/Z or 915E, will affix the certification stamp on the form directly under the signature of the verifying official, then print the payroll name and rank, date it, and give a complete signature under the stamp.

e. Civilian equivalents of 915E or E7 or above will contact the Transportation Operations Office, Plans and Operations Division, Office of the G4, HQ USAREUR/7A, at DSN 370-6950.

f. The unit's official controlled European certification stamp may be ordered through the Transportation Operations Office (DSN 370-6950).

g. When completed, the form then becomes the vehicle's HVCP and will be carried in the vehicle at all times when transporting HAZMAT.

h. Vehicle inspection and certification must be performed yearly. Trailers will be certified apart from their prime movers.

i. Mounted tanks, demountable tanks and tank pods will be inspected and certified every 5 years and a tank certificate issued. The vehicle HVCP will not be valid on expiration of a mounted tank.

j. Certifying officials will keep a file copy of each HVCP for 5 years. For vehicles equipped with product tanks, tank pods, or demountable tanks, the tank certificate will also be carried and annotated with the date of certification and the date of next inspection due.

APPENDIX D
ROAD EXEMPTIONS FOR SMALL QUANTITIES OF MATERIAL

Certain quantities of compatible packaged goods may be transported under less-stringent carrier requirements using the small quantity exemption (also known as the *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road) table of exemption).

D-1. RESTRICTIONS
The small quantity exemption will not applied to the following:

a. Rail transport.

b. Anything in a tank vehicle.

c. Class 1 ammunition and explosives other than hazard and division class 1.4S (sec IV).

NOTE: The *ADR* small quantity exemption is not the same as limited quantities in U.S. Title 49 or other international regulations. Use of *ADR*- or *RID*-defined limited quantities is not authorized except under the direction of a dangerous goods adviser.

D-2. GENERAL
This policy applies to whole transport units as opposed to a vehicle (glossary).

a. If a transport unit under the small quantity exemption is loaded on a railcar, the railcar must be placarded.

b. The load on the whole transport unit (as opposed to a vehicle) must meet the compatibility requirements in table 3.

c. If a load meets the exemption-calculation procedure defined in this appendix, the requirements in (1) through (6) below are all that must be met to transport the load. All other requirements involving documentation, driver training, and the vehicle type are waived.

(1) Gases with code V7 in table 15, column F, must be transported in a ventilated load compartment.

(2) Items must be properly packaged (including marking and labeling).

(3) Items must be compatible, properly loaded and properly secured in the transport unit.

(4) The transport unit must carry fire extinguishers.

(5) Each crewmember must have a flashlight. The flashlight must be explosion-proof when class 2 flammable gases or class 3 materials are carried, or when a supplementary red-flame label is on an item.

(6) A dangerous goods transport document must accompany the load. The document must include the following statement for the exemption to be used:

Load not exceeding the exemption limits prescribed in 1.1.3.6. Calculated value = _____.

d. For empty packaging, the following requirements apply:

(1) Unclean empty packaging from class 1, hazard classification codes 1.1A, 1.1L, 1.2L, 1.3L, 1.4L, and UN 0190 are transport category (TC) 0, which means they must always be transported as if they were full. No exemption is authorized.

(2) Unclean empty packaging that contained items or substances in TC 0, and those that do not have a TC number listed in table 15, must always be transported as if they were full. No exemption is authorized.

(3) Unclean empty packaging other than in (1) and (2) above is in TC 4.

(4) In all cases, empty packaging will be closed as if it were full.

e. TC numbers for different items are found in table 15, column J. If no TC number is listed in the column, no exemption is possible.

f. The TC quantity measurement depends on the following:

(1) For articles such as acid-filled vehicle batteries (class 8), the TC quantity measurement is the gross mass in kilograms.

(2) For solids in packages (for example, super tropical bleach (STB) (class 5.1)), class 2 gases liquefied under pressure (for example carbon dioxide, propane), and gases dissolved under pressure (such as acetylene), the TC quantity measurement is the net mass of the contents in kilograms.

(3) For liquids in packages (for example, a 5-gallon jerrican of JP8 (class 3)), the TC quantity measurement is the volume of the container in liters (not the volume of the liquid in the container).

(4) For compressed gases (for example, oxygen (class 2)), the TC quantity measurement is the liters of water required to fill the cylinder (not the cubic feet of gas in the cylinder).

D-3. LOADS WITH THE SAME TC NUMBER

a. Before loading a transport unit with items having the same TC number, it must be determined if the items are compatible (table 3). If the items are not compatible, the load cannot be transported. Noncompatible items must be removed from the load.

b. For single packages, or multiple compatible packages with the same TC number, the maximum quantity allowed on the transport unit is the amount shown in table D-1. Other dangerous goods will not be transported on the same transport unit. If the TC maximum quantity is exceeded, the exemption does not apply.

NOTE: Because they do not count against the total, items from TC 4 may be included.

Table D-1
Transportation Categories

TC Number	TC Maximum Quantity
TC 0	NONE (exemption not possible)
TC 1 (high danger)	20
TC 2	333
TC 3	1,000
TC 4 (low danger)	Unlimited

D-4. LOADS WITH MORE THAN ONE TC NUMBER

a. Before loading a transport unit with items having different TC numbers, it must be determined if the items are compatible (table 3). If the items are not compatible, the load cannot be transported.

b. The maximum combined quantity of packages with different TC numbers allowed on a transport unit is based on the actual quantity of goods represented by each TC number, multiplied by the multiplication factor for that TC number. The multiplication factor provides an equal, “apples-to-apples” comparison between different TC types. To determine the maximum combined quantity:

(1) Set up a table as follows:

TC Number	Actual Quantity	Maximum TC Quantity	GO/NO GO With Maximum Quantity	Multiplication Factor	TC Result
TC 0	None permitted	0		Not applicable	None permitted
TC 1		20		50	
TC 2		333		3	
TC 3		1,000		1	

TC 4		Unlimited	GO	Not applicable	Unlimited allowed without addition to the total
			Total of TC Result entries		
			GO total 1,000 or less NO GO total more than 1,000		

(2) On paper, separate the actual quantities to be loaded by TC number. Add the quantities to obtain a total for each TC number; then enter the totals in the actual quantity column.

(3) Compare the actual quantity for each TC number with the corresponding maximum TC quantity. If an actual quantity exceeds its maximum TC quantity, the exemption does not apply.

(4) Multiply each actual quantity by its multiplication factor to obtain its TC result. Add the numbers in the TC result column and enter the total in the bottom right block. If the total exceeds 1,000, the load cannot be transported under the exemption. In this case, the load may be split between transport units so that each transport unit load calculation is equal to or less than 1,000, or more than one trip may be made with the same transport unit.

c. Figure D-1 provides examples for determining if loads may be transported under the small quantity exemption.

EXAMPLE 1: May the small quantity exemption be used when shipping one pallet of STB with a total product weight of 240 kilograms with 60 propane cylinders, each with 20 pounds of propane net weight?

SOLUTION:

• STB is class 5.1 and TC 3. Propane is class 2.1 and TC 2. Since more than one good will be loaded, table 1 must be checked to see if the items can be loaded together. In this case, the items are compatible.

• The maximum combined quantity must be calculated to determine if the load meets exemption requirements. The STB, TC 3, weights 240 kilograms, which is under the TC maximum quantity limit of 1,000 kilograms. The propane is a gas liquefied under pressure, so it is measured by net weight in kilograms. Each cylinder contains 20 pounds of propane, which is 9.1 kilograms. The 60 cylinders of propane weigh 546 kilograms. The limit for TC 2 is 333 kilograms. Therefore, the propane may not be shipped in a single transport unit under the small quantity exemption. Therefore, the planned load cannot be made under the exemption.

EXAMPLE 2: May the items in example 1 be shipped in two transport units under the small quantity exemption?

SOLUTION:

• The goal is to split the load so that both transport units meet exemption requirements. Because the STB is on a pallet, it should be kept together and the propane should be split. The propane could be split with 240 kilograms in transport unit 1 and 296 kilograms in transport unit 2 as follows:

TC Number	Actual Quantity	Maximum TC Quantity	GO/NO GO With Maximum Quantity	Multiplication Factor	TC Result
TC 0	None permitted	0	GO	Not applicable	**None permitted**
TC 1	0	20	GO	50	0 x 50 = 0
TC 2	250	333	GO	3	250 x 3 = 750
TC 3	240	1,000	GO	1	240 x 1 = 240
TC 4	0	Unlimited	GO	Not applicable	Unlimited allowed without addition to the total
			Total of TC Result entries		750 + 240 = **990**
			GO total 1,000 or less NO GO total more than 1,000		**GO**

• The TC result for transport unit 1 (990) is below 1,000. Therefore, transport unit 1 may use the small quantity exemption. The amount “990” will be entered in the statement on the transport document.

TC Number	Actual Quantity	Maximum TC Quantity	GO/NO GO With Maximum Quantity	Multiplication Factor	TC Result
TC 0	None permitted	0	GO	Not applicable	None permitted
TC 1	0	20	GO	50	0 x 50 = 0
TC 2	296	333	GO	3	296 x 3 = 888
TC 3	0	1,000	GO	1	0 x 1 = 0
TC 4	0	Unlimited	GO	Not applicable	Unlimited allowed without addition to the total
			Total of TC result entries		**888**
			GO total 1,000 or less NO GO total more than 1,000		**GO**

• The transport unit 2 total TC result (880) is below 1,000. Therefore, transport unit 2 may use the small quantity exemption. The amount “880” will be entered in the statement on the transport document.

EXAMPLE 3: May the following materials be shipped in one transport unit under the small quantity exemption?

Adhesives, class 3, TC 3, 50 liters
Argon, compressed, class 2, TC 3, 20-liter cylinder volume
Batteries, wet, filled with acid, class 8, TC 3, 330 kilograms gross weight
Cleaning compound, class 6.1, TC 2, 30 kilograms
Empty jerricans, MOGAS, class 3, TC 2, 150 liters total container volume
Methanol, class 3, TC 2, 20 liters

SOLUTION:

• The compatibility chart (table 3) must be checked to determine if all the items may be loaded together. They are, so the process can proceed.

• Establish the table:

TC Number	Actual Quantity	Maximum TC Quantity	GO/NO GO With Maximum Quantity	Multiplication Factor	TC Result
TC 0	None permitted	0	GO	Not applicable	None permitted
TC 1	0	20	GO	50	0 x 50 = 0
TC 2	200	333	GO	3	200 x 3 = 600
TC 3	400	1,000	GO	1	400 x 1 = 400
TC 4	0	Unlimited	GO	Not applicable	Unlimited allowed without addition to the total
			Total of TC result entries		**1,000**
			GO total 1,000 or less NO GO total more than 1,000		**GO**

• Each TC actual quantity is less than its respective maximum TC quantity, so the first check is complete. Proceed by multiplying each actual quantity by its multiplication factor to get the TC result.

• The sum of the TC results is exactly 1,000, which meets the exemption requirement. This load may be loaded on one transport unit under the small quantity exemption. The amount “1,000” will be entered in the statement on the transport document.

Figure D-1. Determining if Loads May be Transported Under the Small Quantity Exemption

APPENDIX E
HAZMAT TRANSPORTATION CHECKLISTS

The checklists in figures E-1 and E-2 are designed to ensure that the transportation of hazardous material (HAZMAT) is according to this publication and that the HAZMAT will be accepted by the receiving organization.

E-1. Units responsible for transporting HAZMAT may modify the checklist in figure E-1. A "U" (unsatisfactory) in any block of this checklist requires that the problem area be corrected before release of the transport unit.

E-2. The checklist in figure E-2 is optional for personnel who receive HAZMAT.

TRANSPORTATION OF HAZARDOUS MATERIAL CHECKLIST FOR THE SHIPPER					
CONSIGNOR:	CONSIGNEE:				
CARRIER:	LOCATION OF INSPECTION:				
TRACTOR IDENTIFICATION:	PRIMARY OPERATOR'S NAME:				
TRAILER IDENTIFICATION:	PRIMARY OPERATOR'S LICENSE NUMBER:				
DATE:	TIME:				
EXPORT LICENSE NUMBER (COMMERCIAL):			KW/KG (COMMERCIAL):		
TRANSPORT UNIT DOCUMENTATION					
HVCP OR CIVILIAN VEHICLES B3 CERTIFICATE TRUCK/TRACTOR:					
HVCP OR B3 CERTIFICATE TRAILER:					
VEHICLE DISPATCH, REGISTRATION, OR VALID LEASE:					
ROUTE MAP OR MARCH CREDIT:					
VEHICLE EQUIPMENT					
TWO FIRE EXTINGUISHERS	S	U	AT LEAST ONE CHOCK BLOCK PER VEHICLE AND TRAILER	S	U
VEHICLE PLACARDS	S	U	SHOVEL, BROOM	S	U
TRANSPORT UNIT ORANGE PLATES	S	U	SEWER COVERS	S	U
TWO REFLECTIVE WARNING TRIANGLES, TWO CONES, OR TWO ORANGE FLASHING LAMPS WITH BATTERIES	S	U	ABSORBENT MATERIAL	S	U
PERSONAL EQUIPMENT CHECK FOR EACH OCCUPANT OR VEHICLE					
ONE FLASHLIGHT	S	U	BOOTS, RUBBER	S	U
ONE REFLECTIVE WARNING VEST OR SUIT	S	U	APRON OR COVERALLS	S	U
EYE PROTECTION	S	U	EYE RINSE BOTTLE WITH FRESH WATER	S	U
GLOVES, LEATHER	S	U	PROTECTIVE MASK OR GAS MASK WITH TYPE B FILTER	S	U
VEHICLE TECHNICAL INSPECTION (DD FORM 626)					
VEHICLE INSPECTED BEFORE LOADING	S	U		S	U
TRANSPORT UNIT INSPECTED BEFORE RELEASE					
PACKAGES/PALLETS UNDAMAGED	S	U	PACKAGES/PALLETS MARKED AND LABELED	S	U
COMPATIBILITY SEGREGATION MAINTAINED	S	U	LOAD PROPERLY SECURED	S	U
TRUCK/TRAILER SEALED	S	U	FREIGHT CONTAINERS PLACARDED AND SEALED	S	U
ORANGE WARNING PLATES DISPLAYED	S	U	ORANGE WARNING PLATES DISPLAYED	S	U
DOCUMENTATION FOR THE DRIVER (AS APPLICABLE)					
HVCP	S	U	TRANSPORT DOCUMENT AE FORM 55-4AA	S	U
DD FORM 626 FOR FUEL TANKER & AMMO PICK UP ONLY	S	U	TANK CERTIFICATE		
DD FORM 1384-2	S	U	DD FORM 1348-1A OR ALTERNATE ACCOUNTABLE FORM	S	U
AE FORM 55-355M	S	U	COMPETENT AUTHORITY APPROVAL OF EXEMPTION	S	U
ACCIDENT INFORMATION SHEETS WITH TELEPHONE NUMBERS	S	U	SUPPLEMENTAL ACCIDENT INFORMATION SHEETS OR HAZARD WARNING SHEETS	S	U
IATA DANGEROUS GOODS DECLARATION	S	U	IMO CONTAINER PACKING CERTIFICATE	S	U

Figure E-1. Shipper's Checklist

TRANSPORTATION OF HAZARDOUS MATERIAL CHECKLIST FOR THE RECEIVER					
DRIVER INFORMED OF SPECIFIC TRAFFIC, PARKING, AND SAFETY RULES ON THE INSTALLATION				S	U
DRIVER PROVIDED WITH A STRIPMAP OR ESCORT AS APPLICABLE				S	U
TECHNICAL INSPECTION OF VEHICLES					
LIGHTS AND REFLECTORS	S	U	LANDING GEAR	S	U
ELECTRICAL EQUIPMENT	S	U	TIRES, WHEELS, AND RIMS	S	U
BRAKE SYSTEM	S	U	FUEL SYSTEM (LEAKS)	S	U
SUSPENSION	S	U	COUPLING DEVICES	S	U
INSPECTION OF LOAD					
DAMAGED PACKAGES/PALLETS	S	U	DAMAGED TO RESTRAINTS	S	U
LEAKS OR SPILLAGE	S	U	DAMAGED RELEASE VALVES	S	U
BROKEN OR TAMPERED SEALS	S	U			
INSPECTION AFTER DOWNLOADING/EMPTYING					
ALL VALVES ARE CLOSED AND SECURED	S	U	CARGO AREA IS CLEAN, DUNNAGE AND NAILS REMOVED	S	U
TARPS ARE CLOSED AND SECURED	S	U	DOORS, SIDEWALLS, AND TAILGATES ARE CLOSED AND SECURED	S	U
ORANGE WARNING PLATES AND PLACARDS COVERED OR REMOVED WHEN PURGED	S	U	DRIVER RECEIVES SHIPPING PAPER OF UNCLEANED PACKAGES OR TANKS	S	U

Figure E-2. Receiver's Checklist

APPENDIX F
SOURCES OF ACCIDENT INFORMATION SHEETS, SPILL-CONTROL EQUIPMENT, AND INTERNATIONAL REGULATIONS

F-1. ACCIDENT INFORMATION SHEETS ON CD-ROM
Only the accident information sheets (AISs) at *http://www.per.hqusareur.army.mil* (choose Safety, Services, Dangerous Goods Transportation Safety, then NATO Class 1 AIS) and their translations may be used by the U.S. Forces when transporting class 1.

F-2. HAZARDOUS MATERIAL SPILL-CONTROL EQUIPMENT
The spill-control equipment by national stock number (NSN) in table F-1 may be procured through supply channels.

Table F-1
Spill-Control Equipment

Spill Kits	NSN
Spill-response kit in 25-gallon drum, including seven 18 x 18 x 3-inch pads, one 4-inch x 8-foot sock, two 4-inch x 4-foot socks, one ¾-cubic-foot bag of absorbent, two Tyvek suits, two pair of nitrile gloves, one pair of safety goggles, and three waste-disposal bags. Absorbs 22 to 31 gallons.	4235-01-432-7909
Spill-response kit in 55-gallon drum, including fifteen 18 x 18 x 3-inch pads, two 4-inch x 8-foot socks, two 4-inch x 4-foot socks, three ¾-cubic-foot bags of absorbent, three Tyvek suits, three pairs of nitrile gloves, three pairs of safety goggles, and five waste-disposal bags. Absorbs 45 to 55 gallons.	4235-01-423-7214
Spill-response kit especially equipped for spills in or around water in 55-gallon drum, including ten 18 x 18 x 3-inch pads, five 2-inch x 10-foot socks, five ¾-cubic-foot bags of absorbent, two Tyvek suits, two pairs of nitrile gloves, two pairs of safety goggles, and one shovel. One 3½-gallon bucket, one 2-quart emulsifier, and five waste-disposal bags. Absorbs 45 to 55 gallons.	4235-01-432-7221
Spill-response kit in water-resistant nylon tote bag, including four 18 x 18 x 3-inch pads, two 2-inch x 5-foot socks, one ¾-cubic-foot bag of absorbent, and two waste-disposal bags. Absorbs up to 15 gallons.	4235-01-432-7221
Absorbent Materials	**NSN**
Loose absorbent, 1-cubic-foot bag (four bags per case; each bag absorbs up to 8 gallons).	4235-01-423-7909
Loose absorbent, 2-cubic-foot bag (three bags per case; each bag absorbs up to 16 gallons).	4235-01-423-0711
Pad, 18 x 18 x 3-inch (30 pads per case; each pad absorbs 2 gallons).	4235-01-423-1463
Sock, 2-inch x 10-foot (20 socks per case; each sock absorbs 3 gallons).	4235-01-423-1467
Sock, 4-inch x 8-foot (10 socks per case; each sock absorbs up to 4 gallons).	4235-01-423-1465
Boom (for water surface), 10-inch x 10-foot (3 booms per case; each boom absorbs 13 gallons).	4235-01-423-2787

F-3. SOURCES OF INTERNATIONAL REGULATIONS
This list provides sources for ordering copies of international regulations. They are also available from resellers. Personnel who order these publications must specify the language required and ensure that they are receiving the current document.

a. *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road): Order through the United Nations Bookshop at *http://www.unece.org/trans/danger/publi/order.htm*; specify the English edition.

b. *Accord Européen relatif au Transport International des Marchandises dangereuses par Voies de navigation intérieures* (*ADN*) (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways): Order through the United Nations Bookshop at *http://www.unece.org/trans/danger/publi/order.htm.*

c. *Règlement International concernant le Transport des Marchandises dangereuses* (*RID*) (European Regulation Concerning the International Carriage of Dangerous Goods by Rail): Order the English version of this document from The Stationery Office, England, at *http://www.clicktso.com*. Use the quick search, and enter "regulations concerning the international carriage of dangerous goods by rail (RID)").

d. The International Maritime Dangerous Goods (IMDG) Code: Available through the International Maritime Organization bookshop at *http://www.imo.org/home_noflash.html*. (Click on Publications, Purchasing IMO Publications, and IMDG.)

APPENDIX G
DANGER LABELS, PLACARDS, AND ORANGE RECTANGULAR WARNING PLATES

G-1. DANGER LABELS AND PLACARDS

The *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road), part 5.2.2.2.2 (Specimen Labels) (*http://www.unece.org/trans/danger/publi/adr/adr2001/English/Part5.pdf*), provides sample pictures of package danger labels. These pictures also represent the road, rail, and container placards. Table G-1 explains what the labels mean. Figure G-1 provides sample rectangular rail labels 13 and 15.

G-2. ORANGE RECTANGULAR WARNING PLATES

The *ADR* requires all transport units carrying goods to display two rectangular, reflectorized, orange plates: one on the front and one on the rear of the transport unit. Examples of these plates and requirements for their use are in the *ADR*, part 5.3.2.2.2 (*http://www.unece.org/trans/danger/publi/adr/adr2001/English/Part5.pdf*).

Table G-1
Label/Placard Explanations

LABEL	CLASS	(Background Color)/Meaning
Package label	All	• Package labels, except 11, are all 100mm by 100mm minimum, applied diamond-on-point. Explanatory text is permitted in the lower half of the label in addition to what is shown in the picture.
Placard	All	• Placards are all 250mm by 250mm minimum, applied diamond-on-point. Explanatory text is permitted in the lower half of the placard in addition to what is shown in the picture.
Label 11	All	• Package label 11, also used on handling devices, is 148mm x 210mm minimum. This is larger than the air transport label.
Placards 13 and 15	All	• Placards 13 and 15 are 105mm by 74mm minimum.
Orange rectangular plate	All	• The plate is 300mm x 400mm minimum, with a black 15mm-wide boarder. Numbers are 100mm high. Plates will not be shop-made unless they can meet the special fire-resistant requirements prescribed by the *ADR*, part 5.3.2.2.2.
1	1.1, 1.2, and 1.3	(orange) explosive 1.2, 1.2, or 1.3 • Must enter the class and division in place of the top two asterisks, and compatibility group in place of the lower asterisk, according to the rules in section IV.
1.4	1.4	(orange) explosive 1.4 • Must enter the compatibility group in place of the asterisk according to the rules in section IV.
1.5	1.5	(orange) explosive 1.5 • Must enter the compatibility group in place of the asterisk according to the rules in section IV.
1.6	1.6	(orange) explosive 1.6 • Must enter the compatibility group in place of the asterisk according to the rules in section IV.
2.1	2	(red) compressed gas • Denotes class 2 substance with a flammable subsidiary risk. White or black print may be used.
2.2	2	(green) compressed gas • Denotes class 2 substance without flammable or toxic subsidiary risk. White or black print may be used.
2.3	2	(white) compressed gas • Denotes class 2 substance with a toxic subsidiary risk.
3	3	(red) flammable liquid • White or black print may be used.
4.1	4.1	(red and white stripes) flammable solid
4.2	4.2	(white over red) liable to spontaneous combustion

Table G-1 Label/Placard Explanations		
LABEL	**CLASS**	**(Background Color)/Meaning**
4.3	4.3	(blue) emits flammable gas on contact with water • White or black print may be used.
5.1	5.1	(yellow) oxidizing substance
5.2	5.2	(yellow) organic peroxide
6.1	6.1	(white) toxic
6.2	6.2	(white) infectious substance
7A	7 Category I	(white) radioactive • No transport authorized under this publication without specific authorization.
7B	7 Category II	(yellow over white) radioactive • No transport authorized under this publication without specific authorization.
7C	7 Category III	(yellow over white) radioactive • No transport authorized under this publication without specific authorization.
7D	7	(yellow over white) radioactive • No transport authorized under this publication without specific authorization.
8	8	(white over black) corrosive • Substances and articles which are corrosive, including acids and bases
9	9	(black and white stripes over white) • Substances and articles representing hazards within class 9.
11	Not class specific	(white) • Liquid contained in an inner package - this direction up.
13	Not class specific	(red) shunt (hump) with care • Rail wagon application only; shock-sensitive cargo.
15	Not class specific	(red) do not shunt (hump) or bump with other wagons • Rail wagon application only; very sensitive cargo.
10, 12, 14	Not applicable	• Reserved for future use.

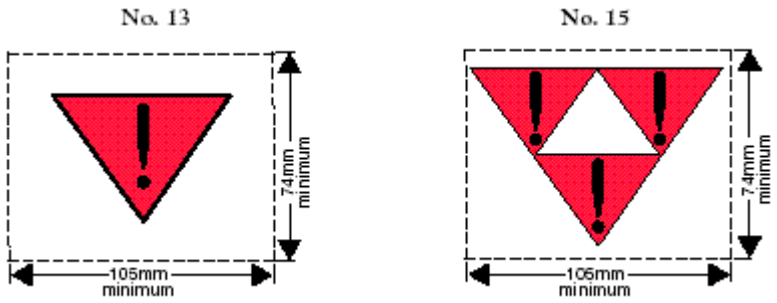


Figure G-1. Rail Labels 13 and 15

APPENDIX H
USING THE AMMUNITION AND EXPLOSIVES MATRIX
This appendix provides instructions for using the Ammunition and Explosives Matrix (fig H-1).

H-1. STEP 1. Identify the Department of Defense identification code (DODIC) or national stock number (NSN) of the item to be transported.

H-2. STEP 2. Select the matching DODIC (column 1) or NSN (column 2) entry in the table. Extract the following information:

a. U.N. number (column 4).

b. Proper shipping name (PSN) (column 5).

c. Hazard class and division (column 6). This code also provides the title of the primary accident information sheet.

d. Compatibility group (CG) (column 7).

e. Net explosive weight in kilograms for each item (column 8).

f. Security risk code (SRC) (column 10).

g. Placard & Label (column 11).

h. Additional Placard & Label (column 12).

i. Supplemental AIS (SUPPL AIS) (column 13). The code in column 13 should be cross-referenced with the current supplemental AIS title in table H-1.

Table H-1
Accident Information Sheet

Table Code	Supplemental AIS
H	FM
J	TH
K	WP
L	CP
M	HC
N or P	DU
Q	CN/CS

NOTE: This table should be cross-referenced with figure H-1, column 13.

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
2W04	1340-01-227-1989	MOTOR CLUSTER, ROCKET	0186	ROCKET MOTORS	1.3	C	61.379662	135.31900	7	1				4442.4	2019.27	19
2W05	1340-01-227-1990	MOTOR CLUSTER, ROCKET	0186	ROCKET MOTORS	1.3	C	22.613560	49.854401	7	1				191.8	87.18	7
3W78	1410-01-248-4995	DECOY, TACT RF	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000005	0.000010	4	1.4				1300.726	591.24	500
3W79	1410-01-248-4996	DECOY, TACTCHAFF	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000005	0.000010	4	1.4				1263.247	574.20	500
A001	1305-01-018-1549	CARTRIDGE, 12 GAGE SHOTGUN SKEET LOAD PLASTIC CASE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.010705	0.023600	P	1.4				57.32	26.05	500
A010	1305-00-028-5035	CARTRIDGE, 10 GAGE BLANK	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.012374	0.027280	7	1.4				100	45.45	
A011	1305-00-028-6642	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				48	21.82	480
A011	1305-00-096-3155	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				116.845	53.11	480
A011	1305-00-096-3156	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				97.003	44.09	500
A011	1305-00-096-3158	CARTRIDGE, 12 GAGE SHOTGUN M19 NO OO	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				108.026	49.10	675
A011	1305-00-096-3159	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				77.162	35.07	500
A011	1305-00-096-3160	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				97.003	44.09	675
A011	1305-00-301-1700	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				108.026	49.10	675
A011	1305-00-301-1703	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				77.162	35.07	500
A011	1305-00-540-9213	CARTRIDGE, 12 GAGE SHOTGUN 00 BUCKSHOT	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				77.162	35.07	500
A011	1305-00-892-4254	CARTRIDGE, 12 GAGE SHOTGUN M162 NO OO	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001724	0.003800	4	1.4				39	17.73	240
A011	1305-01-043-8343	CARTRIDGE, 12 GAGE SHOTGUN PLASTIC CASE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				66.139	30.06	500
A011	1305-01-232-8338	CARTRIDGE, 12 GAUGE 00	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001710	0.003770	4	1.4				52.911	24.05	640
A014	1305-00-147-5568	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001284	0.002830	4	1.4				39.68	18.04	240
A014	1305-00-301-1706	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001252	0.002760	4	1.4				79.5	36.14	500

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A014	1305-00-929-8842	CARTRIDGE, 12 GAGE SHOTGUN PLASTIC CASE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001270	0.002800	4	1.4				79.5	36.14	500
A014	1305-01-232-8339	CARTRIDGE, 12 GAGE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001270	0.002800	4	1.4				79.5	36.14	500
A014	1305-01-386-5605	CARTRIDGE, 12 GAUGE SHOTGUN 7 1/2 SHOT TRAP LOAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001284	0.002830	4	1.4				37.5	17.05	240
A017	1305-00-096-3164	CARTRIDGE, 12 GAGE SHOTGUN NO 9 CHILLE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.010705	0.023600	P	1.4				79.5	36.14	500
A017	1305-00-146-1187	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001220	0.002690	P	1.4				36.7	16.68	240
A017	1305-00-928-4485	CARTRIDGE, 12 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001220	0.002690	P	1.4				63	28.64	500
A017	1305-01-232-7415	CARTRIDGE, 12 GAGE SHOTGUN NO 9	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001220	0.002690	P	1.4				51	23.18	500
A017	1305-01-386-2028	CARTRIDGE, 12 GAUGE SHOTGUN NO 9 SHOT TRAP LOAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001220	0.002690	4	1.4				37.5	17.05	240
A017	1305-01-386-2464	CARTRIDGE, 12 GAUGE SHOTGUN M162	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001724	0.003800	4	1.4				59.52	27.05	240
A023	1305-01-282-1256	CARTRIDGE, 12 GAUGE SHOTGUN PLASTIC CASE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002495	0.005500	4	1.4				24.25	11.02	250
A023	1305-01-386-5604	CARTRIDGE, 12 GAUGE SHOTGUN 1 OZ SLUG LOADED	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002495	0.005500	4	1.4				37.5	17.05	240
A046	1305-01-018-1556	CARTRIDGE, 20 GAGE SHOTGUN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.009707	0.021400	4	1.4				30.86	14.03	500
A055	1305-00-028-6644	CARTRIDGE, 410 GAGE SHOTGUN M35 NO 6	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000499	0.001100	4	1.4				30.86	14.03	500
A055	1305-00-096-3168	CARTRIDGE, 410 GAGE SHOTGUN M35 NO 6	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000499	0.001100	4	1.4				39.7	18.05	500
A055	1305-00-204-0848	CARTRIDGE, 410 GAGE SHOTGUN NO 6	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000499	0.001100	4	1.4				32	14.55	500
A058	1305-01-155-5455	CARTRIDGE, 5.56MM BALL M855 20/CARTON 41C/BX	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001719	0.003790	4	1.4				66.4	30.18	1680
A058	1305-01-155-5458	CARTRIDGE, 5.56MM BALL M855	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001615	0.003560	4	1.4				66.4	30.18	1680
A059	1305-01-155-5459	CARTRIDGE, 5.56MM BALL M855 10 PER CLIP	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001719	0.003790	4	1.4				77.16	35.07	1680

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A059	1305-01-155-5462	CARTRIDGE, 5.56MM BALL M855	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001615	0.003560	4	1.4				66.139	30.06	1680
A062	1305-01-155-5461	CARTRIDGE, 5.56MM BALL M855 200 LINKED WITH M27	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001719	0.003790	4	1.4				66.34	30.15	1600
A062	1305-01-174-9277	CARTRIDGE, 5.56MM BALL M855 200 LINKED M2A1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001719	0.003790	4	1.4				47	21.36	800
A062	1305-01-258-8692	CARTRIDGE, 5.56MM BALL M855 200 LINKED PA108	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001719	0.003790	4	1.4				71.5	32.50	1600
A063	1305-01-155-5457	CARTRIDGE, 5.56MM TRACER M856	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001615	0.003560	4	1.4				66.139	30.06	1640
A064	1305-01-131-5246	CARTRIDGE, 5.56MM M855/M856 BALL/TRACER (4 TO 1)	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003856	0.008500	4	1.4				46.3	21.05	800
A064	1305-01-156-7584	CARTRIDGE, 5.56MM M855/M856 BALL/TRACER 4 TO 1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001996	0.004400	4	1.4				46.3	21.05	800
A064	1305-01-252-0153	CARTRIDGE, 5.56MM M855/M856 BALL/TRACER 4 TO 1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001996	0.004400	4	1.4				71.5	32.50	1600
A065	1305-01-116-4959	CARTRIDGE, 5.56MM BALL PLASTIC PRACTICE M86Z	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000567	0.001250	4	1.4				75	34.09	1600
A065	1305-01-287-9659	CARTRIDGE, 5.56MM M862 SHORT RANGE TRAINING	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000608	0.001340	4	1.4				45	20.45	2400
A066	1305-00-064-6549	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001674	0.003690	4	1.4				30.86	14.03	1000
A066	1305-00-069-0869	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001674	0.003690	4	1.4				50.7	23.05	1440
A066	1305-00-773-1257	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001674	0.003690	4	1.4				50.7	23.05	1120
A066	1305-00-926-3970	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				70	31.82	1640
A066	1305-00-965-0775	CARTRIDGE, 5.56MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				30	13.64	1000
A066	1305-00-968-5892	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				63.93	29.06	1640
A068	1305-00-009-5568	CARTRIDGE, 5.56MM TRACER M196	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001932	0.004260	4	1.4				50.7	23.05	1440

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A068	1305-00-914-4719	CARTRIDGE, 5.56MM TRACER M196	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				63.9	29.05	1640
A068	1305-00-965-0832	CARTRIDGE, 5.56MM TRACER M196	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				50.7	23.05	1440
A070	1305-00-935-6148	CARTRIDGE, 5.56MM HPT	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001084	0.002390	4	1.4				60.9	27.68	1640
A071	1305-00-005-8006	CARTRIDGE, 5.56MM BALL M193 10	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				68.3	31.05	1680
A071	1305-00-926-3930	CARTRIDGE, 5.56MM BALL M193	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				68.3	31.05	1680
A071	1305-01-255-6276	CARTRIDGE, 5.56MM	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001860	0.004100	4	1.4				57.32	26.05	1680
A072	1305-00-926-3929	CARTRIDGE, 5.56MM TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002095	0.004619	4	1.4				69	31.36	1680
A072	1305-01-258-8693	CARTRIDGE, 5.56MM TRACER M196	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002095	0.004619	4	1.4				77	35.00	1680
A075	1305-01-155-5463	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000472	0.001040	7	1.4				72	32.73	1600
A075	1305-01-155-5464	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000472	0.001040	7	1.4				37.5	17.05	800
A075	1305-01-174-9278	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000472	0.001040	7	1.4				37.479	17.04	800
A075	1305-01-258-8694	CARTRIDGE, 5.56MM M200	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000454	0.001000	U	1.4				57.32	26.05	1600
A075	1305-01-354-0739	CARTRIDGE, 5.56MM BLANK M200 WITH M27 LINKS	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.000481	0.001060	7	1.4				54	24.55	2400
A080	1305-00-005-8005	CARTRIDGE, 5.56MM BLANK M200 P	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000739	0.001630	7	1.4				55.11	25.05	2080
A080	1305-00-182-3217	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000499	0.001100	7	1.4				55.11	25.05	2080
A080	1305-00-764-8436	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000499	0.001100	7	1.4				55.11	25.05	2082
A080	1305-00-926-9302	CARTRIDGE, 5.56MM BLANK M200	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000499	0.001100	7	1.4				50.7	23.05	1880
A085	1305-01-137-1677	CARTRIDGE, .22 BLNKSHORT	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000095	0.000210	P	1.4				52.9	24.05	2000

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A086	1305-00-028-6137	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				81.6	37.09	10000
A086	1305-00-305-0890	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				37.48	17.04	5000
A086	1305-00-305-0902	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000136	0.000300	P	1.4				99.21	45.10	10200
A086	1305-00-322-6389	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000163	0.000360	P	1.4				81.57	37.08	10000
A086	1305-00-818-3795	CARTRIDGE, .22 CAL BALL 40 GRAIN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				40	18.18	5000
A086	1305-00-819-6017	CARTRIDGE, .22 CAL BALL 40 GRAIN	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000136	0.000300	P	1.4				81.6	37.09	10200
A086	1305-00-892-5005	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				85.9	39.05	10000
A090	1305-01-120-4105	CARTRIDGE, .22 CAL TRACER PRACTICE XM861	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000117	0.000257	P	1.4				48.5	22.05	5000
A090	1305-01-197-5038	CARTRIDGE, .22 LR M861	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000163	0.000360	P	1.4				38.7	17.59	2000
A091	1305-00-810-8249	CARTRIDGE, .22 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				99.21	45.10	10200
A091	1305-01-255-9109	CARTRIDGE, .22 CAL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000109	0.000240	P	1.4				35.27	16.03	5000
A102	1305-00-182-3096	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003084	0.006800	4	1.4				57.2	26.00	1000
A106	1305-01-257-2559	CARTRIDGE, .22 CAL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000091	0.000200	P	1.4				50.71	23.05	5000
A110	1305-00-752-8088	CARTRIDGE, 7.62MM BLANK	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.001270	0.002800	U	1.4				72.75	33.07	840
A111	1305-00-166-6371	CARTRIDGE, 7.62MM BLANK M82/XM82 LIN	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001134	0.002500	7	1.4				59.52	27.05	800
A111	1305-00-341-5129	CARTRIDGE, 7.62MM BLANK	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001134	0.002500	7	1.4				59.52	27.05	600
A111	1305-00-752-8087	CARTRIDGE, 7.62MM BLANK M82	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000998	0.002200	7	1.4				59.2	26.91	800
A111	1305-01-181-1750	CARTRIDGE, 7.62MM BLANK M82	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001122	0.002474	7	1.4				50	22.73	800

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A111	1305-01-353-3274	CARTRIDGE, 7.62MM BLANK M82 WITH M13 LINKS	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.001120	0.002470	7	1.4				76	34.55	1600
A112	1305-00-008-8894	CARTRIDGE, 7.62MM BLANK M82 PKG 20 R	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.001270	0.002800	7	1.4				59.25	26.93	1200
A112	1305-00-882-5677	CARTRIDGE, 7.62MM BLANK NATO M82	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.001270	0.002800	7	1.4				72.75	33.07	900
A112	1305-00-990-5594	CARTRIDGE, 7.62MM BLANK	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.001270	0.002800	7	1.4				59.52	27.05	1200
A122	1305-00-305-0909	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002980	0.006570	4	1.4				77.16	35.07	960
A122	1305-00-892-4152	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003021	0.006660	4	1.4				68.34	31.06	920
A122	1305-00-892-6155	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003016	0.006650	4	1.4				69	31.36	920
A122	1305-00-914-4676	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003016	0.006650	4	1.4				73.5	33.41	920
A124	1305-00-301-1679	CARTRIDGE, 7.62MM TRACER M62/T	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002994	0.006600	4	1.4				77.16	35.07	960
A124	1305-00-882-5678	CARTRIDGE, 7.62MM TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002994	0.006600	4	1.4				72.75	33.07	920
A127	1305-00-529-0591	CARTRIDGE, 7.62MM BALL AND TRACER LINKED	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003543	0.007810	4	1.4				81.3	36.95	880
A127	1305-00-542-1196	CARTRIDGE, 7.62MM BALL AND TRACER LINKED M80	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				77.16	35.07	800
A128	1305-00-542-1967	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003021	0.006660	4	1.4				77.8	35.36	800
A128	1305-00-542-1968	CARTRIDGE, 7.62MM BALL M80	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				77.8	35.36	800
A130	1305-00-147-2989	CARTRIDGE, 7.62MM BALL M80 PKG	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002980	0.006570	4	1.4				72.75	33.07	840
A130	1305-00-231-4630	CARTRIDGE, 7.62MM BALL M80 GRA	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002980	0.006570	4	1.4				72.75	33.07	840
A130	1305-00-542-1219	CARTRIDGE, 7.62MM BALL M80 PKG	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002980	0.006570	4	1.4				72.75	33.07	840
A130	1305-00-752-8837	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				72.75	33.07	840
A130	1305-00-914-4675	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002980	0.006570	4	1.4				72.75	33.07	840

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A131	1305-00-005-8007	CARTRIDGE, 7.62MM LINKED 4 BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003175	0.007000	4	1.4				77.16	35.07	800
A131	1305-00-143-7163	CARTRIDGE, 7.62MM LINKED	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003597	0.007930	4	1.4				59.52	27.05	600
A131	1305-00-159-8593	CARTRIDGE, 7.62MM LINKED 4 BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003175	0.007000	4	1.4				77.16	35.07	800
A131	1305-00-449-8055	CARTRIDGE, 7.62MM BALL AND TRACER LINKED	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003570	0.007870	4	1.4				60.2	27.36	600
A131	1305-00-892-2150	CARTRIDGE, 7.62MM BALL M80 TRACER M62	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				77.16	35.07	800
A136	1305-00-064-2896	CARTRIDGE, 7.62MM MATCH M118	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002885	0.006360	4	1.4				72.75	33.07	920
A140	1305-00-828-8907	CARTRIDGE, 7.62MM TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003570	0.007870	4	1.4				67	30.45	920
A140	1305-00-926-4017	CARTRIDGE, 7.62MM TRACER M62	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002994	0.006600	4	1.4				69	31.36	920
A143	1305-00-257-1089	CARTRIDGE, 7.62MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003021	0.006660	4	1.4				60.2	27.36	680
A143	1305-00-892-2330	CARTRIDGE, 7.62MM BALL M80	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				77.7	35.32	800
A143	1305-01-098-9652	CARTRIDGE, 7.62MM M80	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003221	0.007100	4	1.4				59.52	27.05	600
A146	1305-00-892-2335	CARTRIDGE, 7.62MM TRACER LINKED	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003007	0.006630	4	1.4				77.8	35.36	800
A151	1305-00-889-2169	CARTRIDGE, 7.62MM BALL M80 TRACER M62	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				77.4	35.18	800
A164	1305-00-935-9247	CARTRIDGE, 7.62MM BALL M80	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				124.5	56.59	1500
A165	1305-00-926-3942	CARTRIDGE, 7.62MM BALL M80 & TRACER LINKED M62	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				130.07	59.12	1500
A168	1305-00-152-3292	CARTRIDGE, 7.62MM BALL M80 & TRACER M62	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003039	0.006700	4	1.4				130.07	59.12	1500
A171	1305-01-120-0970	CARTRIDGE, 7.62MM MATCH M852	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.002903	0.006400	4	1.4				73.4	33.36	920
A181	1305-00-028-6143	CARTRIDGE, .30 CAL CARBINE BALL M1 PACK	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001733	0.003820	4	1.4				112	50.91	3450

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DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A181	1305-00-028-6144	CARTRIDGE, .30 CAL CARBINE BALL M1 GRAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001733	0.003820	4	1.4				98	44.55	3000
A181	1305-00-028-6146	CARTRIDGE, .30 CAL CARBINE BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				78	35.45	2400
A181	1305-00-028-6150	CARTRIDGE, .30 CAL CARBINE BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001733	0.003820	4	1.4				104	47.27	3150
A181	1305-00-028-6152	CARTRIDGE, .30 CAL CARBINE BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				59	26.82	1600
A181	1305-00-028-6507	CARTRIDGE, .30 CAL BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				67.5	30.68	1800
A181	1305-00-540-9132	CARTRIDGE, .30 CAL BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				150	68.18	4800
A181	1305-00-554-1333	CARTRIDGE, .30 CAL CARBINE BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.001733	0.003820	4	1.4				66	30.00	1800
A181	1305-00-555-7011	CARTRIDGE, .30 CAL CARBINE BALL M1 GRAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000871	0.001920	4	1.4				100	45.45	3000
A181	1305-00-926-3963	CARTRIDGE, .30 CAL CARBINE BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				98	44.55	2700
A182	1305-00-028-6508	CARTRIDGE, .30 CAL CARBINE BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000864	0.001904	4	1.4				49	22.27	1080
A182	1305-00-028-6509	CARTRIDGE, .30 CAL BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000953	0.002100	4	1.4				51	23.18	1200
A182	1305-00-102-7902	CARTRIDGE, .30 CAL CARBINE BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000866	0.001910	4	1.4				98.6	44.82	2520
A182	1305-00-301-1662	CARTRIDGE, .30 CAL BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000866	0.001910	4	1.4				86.9	39.50	2160
A182	1305-00-554-1335	CARTRIDGE, .30 CAL CARBINE BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000866	0.001910	4	1.4				51	23.18	1600
A202	1305-00-028-6161	CARTRIDGE, .30 CAL AP	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003602	0.007940	4	1.4				112.44	51.11	1500
A202	1305-00-585-4401	CARTRIDGE, .30 CAL AP	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003602	0.007940	4	1.4				88	40.00	1800
A216	1305-00-028-6206	CARTRIDGE, .30 CAL BALL M2 GRAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003279	0.007230	4	1.4				101.4	46.09	1200
A216	1305-00-028-6207	CARTRIDGE, .30 CAL BALL M2	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				108.03	49.10	1344
A216	1305-00-028-6208	CARTRIDGE, .30 CAL BALL M2	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				44.1	20.05	480
A216	1305-00-028-6215	CARTRIDGE, .30 CAL BALL M2	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				68.3	31.05	768

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A216	1305-00-028-6529	CARTRIDGE, .30 CAL BALL M2	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003279	0.007230	4	1.4				39.7	18.05	384
A216	1305-00-257-1088	CARTRIDGE, .30 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				115	52.27	1120
A216	1305-00-301-1665	CARTRIDGE, .30 CAL BALL M2	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				70.55	32.07	768
A216	1305-00-555-6780	CARTRIDGE, .30 CAL BALL M2 GRAD	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003279	0.007230	4	1.4				74	33.64	768
A216	1305-00-892-1562	CARTRIDGE, .30 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				81	36.82	960
A218	1305-00-028-6542	CARTRIDGE, .30 CAL BALL & TRACER M25	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003357	0.007400	4	1.4				85.98	39.08	1000
A219	1305-00-028-6192	CARTRIDGE, .30 CAL BALL & TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003488	0.007690	4	1.4				77.16	35.07	1000
A219	1305-00-028-6219	CARTRIDGE, .30 CAL BELTED 4 BAL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003488	0.007690	4	1.4				97	44.09	1250
A219	1305-00-540-9472	CARTRIDGE, .30 CAL BELTED 4 BAL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003488	0.007690	4	1.4				152.12	69.15	2000
A219	1305-00-846-3759	CARTRIDGE, .30 CAL BELTED 4 BAL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003488	0.007690	4	1.4				116.85	53.11	1500
A224	1305-00-028-6561	CARTRIDGE, .30 CAL BLANK M1909 PKG 8/CLIP 6	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000816	0.001800	7	1.4				63.9	29.05	1152
A224	1305-00-301-1670	CARTRIDGE, .30 CAL BLANK M1909	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000816	0.001800	7	1.4				59.5	27.05	960
A224	1305-00-540-7204	CARTRIDGE, .30 CAL BLANK M1909 PKG 8/CLIP 6	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000816	0.001800	7	1.4				117	53.18	1440
A224	1305-00-542-0420	CARTRIDGE, .30 CAL BLANK M1909 PKG 8/	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.000816	0.001800	7	1.4				25.52	11.60	960
A260	1305-01-333-3929	CARTRIDGE, 9MM SUBSONIC 147 GRAIN JHP PROJECTILE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000318	0.000700	4	1.4				81.57	37.08	2000
A260	1305-01-357-8488	CARTRIDGE, 9MM SUBSONIC 147 GRAIN JHP PROJECTILE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000318	0.000700	4	1.4				81.57	37.08	2000
A350	1305-00-028-6622	CARTRIDGE, .32 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000136	0.000300	4	1.4				93	42.27	5000

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A358	1305-01-214-8684	CARTRIDGE, 9MM PRACTICE M939 FOR AT4 TRAINER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.000415	0.000914	4	1.4				110.23	50.10	3000
A358	1305-01-307-5536	CARTRIDGE, 9MM PRACTICE TRACER M939	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.000544	0.001200	4	1.4				66.14	30.06	2000
A360	1305-00-308-5810	CARTRIDGE, 9MM BALL M1	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000408	0.000900	4	1.4				85.98	39.08	3840
A360	1305-00-308-5811	CARTRIDGE, 9MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000408	0.000900	4	1.4				92.59	42.09	3000
A360	1305-00-855-5991	CARTRIDGE, 9MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000408	0.000900	4	1.4				94.8	43.09	2880
A360	1305-00-935-6164	CARTRIDGE, 9MM BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000408	0.000900	4	1.4				97	44.09	3072
A362	1305-01-157-2462	CARTRIDGE, 9MM MK 144-0	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000290	0.000640	4	1.4				97	44.09	3072
A362	1305-01-370-9432	CARTRIDGE, 9MM SUBSONIC 147 GRAIN METAL JACKET	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000318	0.000700	4	1.4				81.57	37.08	2000
A363	1305-01-172-9558	CARTRIDGE, 9MM BALL NATO XM882	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000413	0.000911	4	1.4				79.36	36.07	2000
A364	1305-01-173-2397	CARTRIDGE, 9MM TEST HIGH PRESSURE XM905	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000511	0.001127	U	1.4				79.7	36.23	2000
A365	1305-00-451-8203	CARTRIDGE, 14.5MM TRAINER M181	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.013658	0.030110	U	1.4				101.4	46.09	560
A365	1305-00-915-8573	CARTRIDGE, 14.5MM TRAINER M181	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.013658	0.030110	U	1.4				88	40.00	500
A366	1305-00-451-2894	CARTRIDGE, 14.5MM TRAINER M182	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.013658	0.030110	U	1.4				101.4	46.09	560
A366	1305-00-915-8588	CARTRIDGE, 14.5MM TRAINER M182	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.013658	0.030110	U	1.4				78	35.45	500
A367	1305-00-451-2895	CARTRIDGE, 14.5MM TRAINER M183	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000971	0.002140	U	1.4				101.4	46.09	560
A367	1305-00-915-8593	CARTRIDGE, 14.5MM TRAINER M183	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.011975	0.026400	U	1.4				88	40.00	500
A397	1305-00-553-4779	CARTRIDGE, .38 CAL SP PGU 12/B BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000363	0.000800	4	1.4				62	28.18	2000
A400	1305-00-007-5557	CARTRIDGE, .38 CAL SPECIAL BALL M41 130	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000331	0.000730	4	1.4				94.8	43.09	2400
A400	1305-00-028-6629	CARTRIDGE, .38 CAL BALL M41	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				50	22.73	1200

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A400	1305-00-322-6391	CARTRIDGE, .38 CAL SPECIAL BALL M41	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				92	41.82	2400
A400	1305-00-776-4640	CARTRIDGE, .38 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				38.5	17.50	1200
A403	1305-00-000-0018	CARTRIDGE, .38 CAL BLANK	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000331	0.000730	4	1.4				44.1	20.05	2000
A403	1305-00-301-1689	CARTRIDGE, .38 CAL BLANK	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000331	0.000730	4	1.4				33	15.00	2000
A403	1305-00-810-8250	CARTRIDGE, .38 CAL BLANK SPECIAL	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000272	0.000600	4	1.4				63.92	29.05	2000
A404	1305-00-123-0548	CARTRIDGE, .38 CAL WADCUTTER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				94	42.73	2400
A404	1305-00-301-1691	CARTRIDGE, .38 CAL WADCUTTER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000181	0.000400	4	1.4				71	32.27	2000
A404	1305-00-348-8650	CARTRIDGE, .38 CAL SPECIAL BALL REVOLVE	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000191	0.000420	4	1.4				94.79	43.09	2400
A406	1305-00-301-1692	CARTRIDGE, .38 CAL BALL/TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				70.55	32.07	1500
A406	1305-01-289-1949	CARTRIDGE, .38 CAL SP STLTR	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000272	0.000600	4	1.4				39.68	18.04	1200
A475	1305-00-028-6613	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				68.34	31.06	1200
A475	1305-00-028-6616	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				68.34	31.06	1200
A475	1305-00-028-6617	CARTRIDGE, .45 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000363	0.000800	4	1.4				68	30.91	1200
A475	1305-00-028-6619	CARTRIDGE, .45 CAL BALL	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				68.34	31.06	1200
A475	1305-00-147-5904	CARTRIDGE, .45 CAL BALL M1911 P	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				101.4	46.09	2000
A475	1305-00-301-1683	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				110.2	50.09	2000
A475	1305-00-301-1685	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000363	0.000800	4	1.4				108.03	49.10	2000
A475	1305-00-540-9227	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				112.44	51.11	2000
A475	1305-00-555-1225	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				112.44	51.11	2000
A475	1305-00-555-7077	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				68.34	31.06	1200

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A475	1305-00-776-4639	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000363	0.000800	4	1.4				48.2	21.91	1000
A479	1305-00-028-6631	CARTRIDGE, .45 CAL TRACER M26	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000712	0.001570	4	1.4				81.57	37.08	1620
A479	1305-00-905-6788	CARTRIDGE, .45 CAL TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000712	0.001570	4	1.4				112.44	51.11	2000
A483	1305-00-052-7459	CARTRIDGE, .45 CAL BALL M1911 M	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000354	0.000780	4	1.4				112.436	51.11	2000
A483	1305-00-892-2526	CARTRIDGE, .45 CAL BALL M1911	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000363	0.000800	4	1.4				108.03	49.10	2000
A520	1305-00-764-8386	CARTRIDGE, .50 CAL BALL AND TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016964	0.037400	4	1.4				70	31.82	170
A526	1305-00-028-6295	CARTRIDGE, .50 CAL AP	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				44	20.00	120
A526	1305-00-028-6298	CARTRIDGE, .50 CAL AP	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				112	50.91	35
A526	1305-00-585-4380	CARTRIDGE, .50 CAL AP	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				0.3	0.14	1
A530	1305-00-028-6562	CARTRIDGE, .50 CAL APT	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015554	0.034290	4	1.4				77	35.00	200
A531	1305-00-028-6447	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016211	0.035740	4	1.4				42	19.09	120
A531	1305-00-028-6449	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016211	0.035740	4	1.4				79	35.91	200
A531	1305-00-028-6457	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016211	0.035740	4	1.4				108.03	49.10	350
A531	1305-00-093-3030	CARTRIDGE, .50 CAL API M8	0300	AMMUNITION, INCENDIARY	1.4	G	0.016211	0.035740	4	1.4				130.07	59.12	360
A531	1305-00-555-7053	CARTRIDGE, .50 CAL API M8	0300	AMMUNITION, INCENDIARY	1.4	G	0.016211	0.035740	4	1.4				127.87	58.12	350
A540	1305-00-028-6470	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.017014	0.037510	4	1.4				75	34.09	210
A540	1305-00-028-6471	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.017014	0.037510	4	1.4				83.78	38.08	210
A540	1305-00-028-6473	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.017014	0.037510	4	1.4				89.9	40.86	210
A540	1305-00-935-2017	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.017014	0.037510	4	1.4				75	34.09	200
A541	1305-00-028-6492	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.016824	0.037090	4	1.4				108.03	49.10	350
A541	1305-00-028-6494	CARTRIDGE, .50 CAL API-T M20	0300	AMMUNITION, INCENDIARY	1.4	G	0.016824	0.037090	4	1.4				130.07	59.12	360

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A541	1305-00-555-7075	CARTRIDGE, .50 CAL API-T M20	0300	AMMUNITION, INCENDIARY	1.4	G	0.016824	0.037090	4	1.4				0.3	0.14	1
A541	1305-00-585-5193	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.033607	0.074090	4	1.4				126	57.27	390
A541	1305-00-585-5194	CARTRIDGE, .50 CAL API & T	0300	AMMUNITION, INCENDIARY	1.4	G	0.016783	0.037000	4	1.4				79.36	36.07	240
A545	1305-00-555-4055	CARTRIDGE, .50 CAL API M8	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				76	34.55	210
A545	1305-00-555-4057	CARTRIDGE, .50 CAL API M8	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				77.1	35.05	200
A545	1305-00-555-4059	CARTRIDGE, .50 CAL API M8	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				83	37.73	220
A546	1305-00-555-4272	CARTRIDGE, .50 CAL BALL M2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				77	35.00	200
A546	1305-00-585-5368	CARTRIDGE, .50 CAL BALL M2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015377	0.033900	4	1.4				77	35.00	200
A552	1305-00-028-6333	CARTRIDGE, .50 CAL BALL M2 GRAD	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015368	0.033880	4	1.4				112.44	51.11	350
A552	1305-00-028-6337	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015368	0.033880	4	1.4				44.1	20.05	120
A552	1305-00-093-3036	CARTRIDGE, .50 CAL BALL M2 GRAD	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015368	0.033880	4	1.4				130.07	59.12	360
A552	1305-00-555-6783	CARTRIDGE, .50 CAL BALL M2 GRAD	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015368	0.033880	4	1.4				115	52.27	320
A552	1305-00-585-5191	CARTRIDGE, .50 CAL M33 BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				79.4	36.09	240
A553	1305-00-028-6335	CARTRIDGE, .50 CAL BALL M2 GRAD	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015368	0.033880	4	1.4				112.44	51.11	350
A553	1305-00-028-6336	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015331	0.033800	4	1.4				78.9	35.86	240
A553	1305-00-542-0612	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				82	37.27	240
A553	1305-00-585-4389	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015409	0.033970	4	1.4				0.3	0.14	1
A554	1305-00-028-6355	CARTRIDGE, .50 CAL BALL M2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015377	0.033900	4	1.4				83.77	38.08	210
A554	1305-00-028-6373	CARTRIDGE, .50 CAL BALL M2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015377	0.033900	4	1.4				99	45.00	265
A554	1305-00-028-6374	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015377	0.033900	4	1.4				91.6	41.64	240
A555	1305-00-028-6574	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015513	0.034200	4	1.4				77.16	35.07	200

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A555	1305-00-542-0614	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.015513	0.034200	4	1.4				75	34.09	200
A557	1305-00-028-6347	CARTRIDGE, .50 CAL LINKED 4 BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016583	0.036560	4	1.4				83.77	38.08	210
A557	1305-00-028-6583	CARTRIDGE, .50 CAL M33 BALL & M17 TRACER (4/1) M9 LINK	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016379	0.036110	4	1.4				77.1	35.05	200
A557	1305-00-540-1056	CARTRIDGE, .50 CAL BALL AND TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016964	0.037400	4	1.4				77.1	35.05	200
A557	1305-00-817-9661	CARTRIDGE, .50 CAL LINKED 3 BAL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016583	0.036560	4	1.4				149.9	68.14	426
A557	1305-01-370-2594	CARTRIDGE, .50 CAL M33 BALL & M17 TRACER (4/1) M9 LINKED	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.016379	0.036110	4	1.4				77	35.00	200
A558	1305-00-028-6377	CARTRIDGE, .50 CAL BLANK	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003121	0.006880	7	1.4				81	36.82	450
A558	1305-00-093-3048	CARTRIDGE, .50 CAL BLANK M1 PKG 10/CTN 4	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003121	0.006880	7	1.4				81.57	37.08	450
A559	1305-00-028-6378	CARTRIDGE, .50 CAL BLANK	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003121	0.006880	7	1.4				37.48	17.04	150
A559	1305-00-028-6379	CARTRIDGE, .50 CAL BLANK	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003121	0.006880	7	1.4				94.79	43.09	450
A559	1305-00-028-6380	CARTRIDGE, .50 CAL BLANK M1	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003130	0.006900	7	1.4				52	23.64	200
A570	1305-00-028-6394	CARTRIDGE, .50 CAL TRACER M1 GR	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				110.23	50.10	350
A570	1305-00-028-6427	CARTRIDGE, .50 CAL TRACER M17 G	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014578	0.032140	4	1.4				110.23	50.10	350
A570	1305-00-028-6430	CARTRIDGE, .50 CAL TRACER M17 G	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014578	0.032140	4	1.4				44.09	20.04	120
A570	1305-00-028-6437	CARTRIDGE, .50 CAL TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				108.03	49.10	350
A570	1305-00-555-7051	CARTRIDGE, .50 CAL TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014578	0.032140	4	1.4				130.07	59.12	360
A570	1305-00-555-7064	CARTRIDGE, .50 CAL TRACER HEADL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.021718	0.047880	4	1.4				129.5	58.86	350

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A570	1305-00-555-7073	CARTRIDGE, .50 CAL TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				129.5	58.86	350
A570	1305-00-555-7076	CARTRIDGE, .50 CAL TRACER M10 G	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				130.07	59.12	350
A571	1305-00-028-6395	CARTRIDGE, .50 CAL TRACER M1 GR	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				110.23	50.10	350
A571	1305-00-028-6607	CARTRIDGE, .50 CAL TRACER M17 P	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020226	0.044590	4	1.4				83	37.73	240
A571	1305-00-585-4385	CARTRIDGE, .50 CAL TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014742	0.032500	4	1.4				72	32.73	180
A571	1305-00-585-5187	CARTRIDGE, .50 CAL TRACER M17	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014742	0.032500	4	1.4				79	35.91	240
A571	1305-00-585-5188	CARTRIDGE, .50 CAL TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014742	0.032500	4	1.4				79	35.91	240
A572	1305-00-028-6609	CARTRIDGE, .50 CAL TRACER M17	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.014742	0.032500	4	1.4				77.1	35.05	200
A574	1305-00-028-6611	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.007126	0.015710	4	1.4				77.16	35.07	208
A574	1305-00-153-0269	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.007126	0.015710	4	1.4				70.55	32.07	208
A574	1305-00-164-5343	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.007126	0.015710	4	1.4				77.16	35.07	220
A574	1305-00-542-0408	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.010278	0.022660	4	1.4				55.11	25.05	180
A574	1305-00-554-6745	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.007126	0.015710	4	1.4				77.162	35.07	220
A574	1305-00-935-6067	CARTRIDGE, .50 CAL SPOTTER TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.010278	0.022660	4	1.4				76.6	34.82	220
A576	1305-00-003-8803	CARTRIDGE, .50 CAL LINKED 4 API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016334	0.036010	4	1.4				77.16	35.07	200
A576	1305-00-028-6466	CARTRIDGE, .50 CAL API M8 API-T M20	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				74.96	34.07	210
A576	1305-00-028-6485	CARTRIDGE, .50 CAL LINKED 3 API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016334	0.036010	4	1.4				44.09	20.04	110
A576	1305-00-028-6490	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				79	35.91	210
A576	1305-00-028-6491	CARTRIDGE, .50 CAL API M8 & API-T M20	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				100	45.45	265
A576	1305-00-028-6603	CARTRIDGE, .50 CAL API M8 & API-T M20	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				77	35.00	200
A576	1305-00-028-6606	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.015241	0.033600	4	1.4				74.96	34.07	200

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A577	1305-00-028-6604	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.016334	0.036010	4	1.4				77.1	35.05	200
A577	1305-00-028-6605	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.016375	0.036100	4	1.4				100	45.45	224
A577	1305-00-540-9645	CARTRIDGE, .50 CAL LINKED 3 API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016334	0.036010	4	1.4				44.09	20.04	110
A579	1305-00-965-0553	CARTRIDGE, .50 CAL PRACTICE	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.009897	0.021820	4	1.4				77.16	35.07	220
A585	1305-00-618-2400	CARTRIDGE, .50 CAL API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.015794	0.034820	4	1.4				77.16	35.07	200
A587	1305-00-585-1667	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.017354	0.038260	4	1.4				77.16	35.07	200
A587	1305-00-752-7638	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.017354	0.038260	4	1.4				83	37.73	210
A587	1305-00-752-8040	CARTRIDGE, .50 CAL API	0300	AMMUNITION, INCENDIARY	1.4	G	0.016375	0.036100	4	1.4				83	37.73	220
A589	1305-00-689-4709	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.047319	0.104320	4	1.4				63.34	28.79	170
A589	1305-00-752-7891	CARTRIDGE, .50 CAL API & API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.047319	0.104320	4	1.4				72.75	33.07	180
A590	1305-00-689-4738	CARTRIDGE, .50 CAL API-T	0300	AMMUNITION, INCENDIARY	1.4	G	0.015114	0.033320	4	1.4				63.343	28.79	170
A593	1305-00-689-4752	CARTRIDGE, .50 CAL AP & TRACER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.020398	0.044970	4	1.4				70	31.82	170
A598	1305-01-078-4879	CARTRIDGE, .50 CAL BLANK M1A1	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003130	0.006900	7	1.4				77.1	35.05	200
A599	1305-01-085-5118	CARTRIDGE, .50 CAL BLANK M1A1	0338	CARTRIDGES, SMALL ARMS, BLANK	1.4	C	0.003130	0.006900	7	1.4				68.5	31.14	170
A602	1305-01-126-6201	CARTRIDGE, .50 CAL BALL AND TRACER	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.003098	0.006830	4	1.4				70.55	32.07	200
A605	1305-00-935-2109	CARTRIDGE, .50 CAL BALL	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.017690	0.039000	4	1.4				68.34	31.06	240
A606	1305-01-250-8162	CARTRIDGE, .50 CAL MK 211 MOD 0	0300	AMMUNITION, INCENDIARY	1.4	G	0.017872	0.039400	4	1.4				79.36	36.07	240
A651	1305-00-785-2829	CARTRIDGE, 20MM TPT M220	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				145.5	66.14	200
A651	1305-01-118-9930	CARTRIDGE, 20MM M220	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.041567	0.091640	4	1.4				174.16	79.16	250

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A652	1305-00-157-4886	CARTRIDGE, 20MM TP-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.041504	0.091500	4	1.4				92	41.82	100
A652	1305-00-522-3701	CARTRIDGE, 20MM TP-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.042833	0.094430	4	1.4				92	41.82	100
A652	1305-00-785-2848	CARTRIDGE, 20MM TP-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.042833	0.094430	4	1.4				92	41.82	100
A653	1305-00-143-7034	CARTRIDGE, 20MM HEI AND TP-T M56A3/M220 (4/1)	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.051669	0.113910	3	1			04	92	41.82	100
A653	1305-00-935-6188	CARTRIDGE, 20MM HEI AND TP-T M56A3/M220 (4/1)	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.051669	0.113910	3	1			04	92	41.82	100
A653	1305-01-135-2582	CARTRIDGE, 20MM LINKED 4-M56A1 TO 1-M220	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.051668	0.113910	3	1			04	105	47.73	100
A656	1305-00-926-4059	CARTRIDGE, 20MM TP M55A2 TPT M220	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.041504	0.091500	4	1.4				95	43.18	100
A659	1305-00-935-6171	CARTRIDGE, 20MM M242	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.050231	0.110740	3	1			04	145.5	66.14	200
A659	1305-01-118-9929	CARTRIDGE, 20MM HEIT M242A1	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.011385	0.025100	3	1			04	165.35	75.16	250
A677	1305-01-213-9658	CARTRIDGE, 20MM	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.047491	0.104700	3	1			04	165.35	75.16	250
A678	1305-01-213-9656	CARTRIDGE, 20MM PGU-27	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.037362	0.082370	4	1.4				165.35	75.16	250
A679	1305-01-213-9657	CARTRIDGE, 20MM TP-T	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.038750	0.085430	4	1.4				165.35	75.16	250
A680	1305-00-334-5920	CARTRIDGE, 22MM SUB CAL PRACTICE M744	0015	AMMUNITION, SMOKE	1.2	G	0.009575	0.021110	4	1	8		04	120	54.55	100
A681	1305-00-334-5922	CARTRIDGE, 22MM SUB CAL PRACTICE M745	0015	AMMUNITION, SMOKE	1.2	G	0.009775	0.021550	4	1	8		04	120	54.55	100
A682	1305-00-334-5934	CARTRIDGE, 22MM SUB CAL PRACTICE M746	0015	AMMUNITION, SMOKE	1.2	G	0.010179	0.022440	4	1	8		04	120	54.55	100
A683	1305-00-334-5935	CARTRIDGE, 22MM SUB CAL PRACTICE M747	0015	AMMUNITION, SMOKE	1.2	G	0.010877	0.023980	4	1	8		04	120	54.55	100
A684	1305-01-178-5282	CARTRIDGE, 22MM SUB CAL PRACTICE M890	0015	AMMUNITION, SMOKE	1.2	G	0.010478	0.023100	4	1	8		04	120	54.55	100

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A686	1305-01-175-5296	CARTRIDGE, 22MM SUB CAL PRACTICE M892	0015	AMMUNITION, SMOKE	1.2	G	0.010750	0.023700	4	1	8		04	120	54.55	100
A687	1305-01-175-5297	CARTRIDGE, 22MM SUB CAL PRACTICE M893	0015	AMMUNITION, SMOKE	1.2	G	0.010886	0.024000	4	1	8		04	120	54.55	100
A688	1305-01-175-5298	CARTRIDGE, 22MM SUB CAL PRACTICE M894	0015	AMMUNITION, SMOKE	1.2	G	0.011022	0.024300	4	1	8		04	120	54.55	100
A689	1305-01-178-5283	CARTRIDGE, 22MM SUB CAL PRACTICE M895	0015	AMMUNITION, SMOKE	1.2	G	0.011204	0.024700	4	1	8		04	120	54.55	100
A690	1305-01-178-5874	CARTRIDGE, 22MM SUB CAL PRACTICE M896	0015	AMMUNITION, SMOKE	1.2	G	0.011385	0.025100	4	1	8		04	120	54.55	100
A691	1305-01-175-7771	CARTRIDGE, 22MM SUB CAL PRACTICE M897	0015	AMMUNITION, SMOKE	1.2	G	0.011567	0.025500	4	1	8		04	120	54.55	100
A701	1305-01-011-6324	CARTRIDGE, 20MM M56A3 HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.051256	0.113000	3	1			04	87	39.55	100
A701	1305-01-116-3935	CARTRIDGE, 20MM HEI M56A4	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.052140	0.114950	3	1			04	87	39.55	100
A701	1305-01-209-4292	CARTRIDGE, 20MM HEI M56A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	87	39.55	100
A792	1305-00-152-3659	CARTRIDGE, 20MM HEI-T	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.011022	0.024300	3	1			04	92	41.82	100
A792	1305-00-401-1536	CARTRIDGE, 20MM HEI-T	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.011022	0.024300	3	1			04	93	42.27	100
A792	1305-00-926-9279	CARTRIDGE, 20MM HEI-T	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.011022	0.024300	3	1			04	97.6	44.36	100
A890	1305-00-262-4181	CARTRIDGE, 20MM HEI M56A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	92.5	42.05	200
A890	1305-00-542-0406	CARTRIDGE, 20MM HEI M56A1	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.053978	0.119000	3	1			04	78	35.45	100
A890	1305-00-935-9104	CARTRIDGE, 20MM HEI M56A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	112.44	51.11	200
A890	1305-01-116-3931	CARTRIDGE, 20MM HEI M56A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	165.35	75.16	250
A890	1305-01-117-5316	CARTRIDGE, 20MM	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.049582	0.109310	3	1			04	110.23	50.10	196
A890	1305-01-118-9928	CARTRIDGE, 20MM HEI M56A4 BULK-PACKED	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.051668	0.113910	3	1			04	165.35	75.16	250
A890	1305-01-211-6248	CARTRIDGE, 20MM HEI M56A1	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	165.35	75.16	250
A891	1305-00-132-3283	CARTRIDGE, 20MM TP	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				144	65.45	200
A891	1305-00-542-0405	CARTRIDGE, 20MM TP M55A2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				102.5	46.59	100

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A891	1305-00-752-8114	CARTRIDGE, 20MM TP M55A2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				145.5	66.14	200
A891	1305-01-116-4560	CARTRIDGE, 20MM M55A2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.038877	0.085710	4	1.4				169.76	77.16	250
A891	1305-01-119-8548	CARTRIDGE, 20MM	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.038877	0.085710	4	1.4				143.3	65.14	196
A896	1305-00-169-1784	CARTRIDGE, 20MM TP AND TP-T	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.040206	0.088640	4	1.4				83.78	38.08	100
A896	1305-00-926-9421	CARTRIDGE, 20MM TP AND TP-T	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.040206	0.088640	4	1.4				92.1	41.86	100
A919	1305-00-182-3081	CARTRIDGE, 20MM HEI M56A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	92	41.82	100
A919	1305-00-542-1120	CARTRIDGE, 20MM HEI M56A1E1	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	59	26.82	52
A919	1305-00-850-3676	CARTRIDGE, 20MM HEI M56A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	92	41.82	100
A919	1305-00-892-4321	CARTRIDGE, 20MM HEI M56A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.012927	0.028500	3	1			04	92	41.82	100
A919	1305-00-965-0560	CARTRIDGE, 20MM HEI M56A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.052140	0.114950	3	1			04	85.98	39.08	100
A919	1305-01-119-6068	CARTRIDGE, 20MM HEI M56A4	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.052140	0.114950	3	1			04	87	39.55	100
A926	1305-00-180-9268	CARTRIDGE, 20MM TP M55A2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				74.96	34.07	100
A926	1305-00-965-0559	CARTRIDGE, 20MM TP M55A2	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.039054	0.086100	4	1.4				77.16	35.07	100
A940	1305-01-286-5185	CARTRIDGE, 25MM TPDS-T M910 IN M61 PLASTIC CONTAINER	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.101741	0.224300	4	1			08	32.5	14.77	30
A940	1305-01-298-6414	CARTRIDGE, 25MM TPDS-T M910 IN WOODEN CONTAINER	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.101741	0.224300	4	1			08	125	56.82	50
A940	1305-01-350-5265	CARTRIDGE, 25MM TPDS-T M910 P/N 12556695 IN PA125	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.102421	0.225800	4	1			06	55	25.00	30
A965	1305-01-082-8986	CARTRIDGE, 25.4MM DECOY M839	0454	IGNITERS	1.4	S	0.000354	0.000780	7	1.4				66.14	30.06	100
A974	1305-01-092-0428	CARTRIDGE, 25MM M791 APDS-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.101015	0.222700	4	1.4				50	22.73	30

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A974	1305-01-095-6014	CARTRIDGE, 25MM APDS-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.100013	0.220490	4	1.4				99.21	45.10	50
A974	1305-01-209-5915	CARTRIDGE, 25MM APDS-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.098017	0.216090	4	1.4				99.21	45.10	55
A974	1305-01-356-9838	CARTRIDGE, 25MM APDS-T M791 IN PA125 METAL CONTAINER	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.101097	0.222880	4	1			05	68.34	31.06	30
A975	1305-01-094-1035	CARTRIDGE, 25MM M792 HEI-T	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.128004	0.282200	3	1			04	50.71	23.05	30
A975	1305-01-094-7016	CARTRIDGE, 25MM M792	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.126017	0.277820	3	1			04	99.21	45.10	50
A975	1305-01-190-8507	CARTRIDGE, 25MM M792	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.113121	0.249390	3	1			04	99.21	45.10	50
A975	1305-01-190-8508	CARTRIDGE, 25MM M792	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.113121	0.249390	3	1			04	99.21	45.10	50
A975	1305-01-211-8360	CARTRIDGE, 25MM HEI-T	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.126017	0.277820	3	1			04	99.21	45.10	55
A975	1305-01-356-0188	CARTRIDGE, 25MM HEI-T M792 WITH FUZE PDSD M758	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.123318	0.271870	3	1			12	68.34	31.06	30
A976	1305-01-092-0429	CARTRIDGE, 25MM M793 TP-T	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.095980	0.211600	4	1.4				50	22.73	30
A976	1305-01-095-0248	CARTRIDGE, 25MM M793	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.100013	0.220490	4	1.4				99.21	45.10	50
A976	1305-01-212-5066	CARTRIDGE, 25MM TP-T M793	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.100013	0.220490	3	1.4				99.21	45.10	55
A976	1305-01-356-0189	CARTRIDGE, 25MM TP-T M793 IN PA125 METAL CONTAINER	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.092815	0.204622	4	1			03	68.34	31.06	30
A976	1305-01-380-5862	CARTRIDGE, 25MM TP-T M793	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.100013	0.220490	4	1.4				101.41	46.10	100
A979	1305-01-136-3623	CARTRIDGE, 25MM PGU-20U	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.095014	0.209470	4	1.4				154	70.00	100
A979	1305-01-251-2582	CARTRIDGE, 25MM API	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.098017	0.216090	4	1.4				127.89	58.13	80

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
A986	1305-01-304-9977	CARTRIDGE, 25MM APFSDS-T M919 M621 CONTAINER DOT-E 9649	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.105415	0.232400	4	1			04	50	22.73	30
A986	1305-01-348-0192	CARTRIDGE, 25MM APFSDS-T M919 IN METAL CONTAINER PA125	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.097114	0.214100	4	1			04	53	24.09	30
A990	1305-01-352-5649	CARTRIDGE, 25MM SAPHEI-T PGU-32/U	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.108218	0.238580	3	1			06	138.89	63.13	100
B103	1305-01-056-4626	CARTRIDGE, 30MM PGU-14A/B PGU-13/B (5/1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	116.9	53.14	1176
B103	1305-01-056-4907	CARTRIDGE, 30MM PGU-14A/B PGU-13/B (5-1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1		M	04	116.9	53.14	1176
B103	1305-01-083-5998	CARTRIDGE, 30MM PGU-14B/B PGU-13/B (5-1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	2482	1128.18	1176
B103	1305-01-093-3340	CARTRIDGE, 30MM PGU-14B/B PGU-13/B (5-1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1		M	04	1163	528.64	575
B103	1305-01-095-1062	CARTRIDGE, 30MM PGU-14B/B PGU-13/B (5-1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	1200	545.45	575
B103	1305-01-113-2462	CARTRIDGE, 30MM PGU-14A/B PGU-13A/B (5/1 RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1		M	04	1163	528.64	575
B103	1305-01-146-1530	CARTRIDGE, 30MM PGU-13A/B PGU-14B/B (5API-1)	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	1200	545.45	575
B103	1305-01-157-2627	CARTRIDGE, 30MM PGU-13A/B PGU-14B/B 5:1 RATIO	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	2369.3	1076.95	1150
B103	1305-01-161-0622	CARTRIDGE, 30MM PGU-13A/B PGU-14B/B 5:1 RATIO	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1		M	04	2369.3	1076.95	1150
B103	1305-01-225-8202	CARTRIDGE, 30MM PGU-14B/B PGU-13A/B (5/1RATIO)C	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1		M	04	1090	495.45	575

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B103	1305-01-232-6180	CARTRIDGE, 30MM PGU-14B/B API & PGU-13A/B HEI 5 1 RATIO	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1		M	04	2229	1013.18	1150
B104	1305-00-416-5814	CARTRIDGE, 30MM HEI PGU-13/B	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1			04	56.9	25.86	36
B104	1305-01-023-1908	CARTRIDGE, 30MM HEI PGU-13/B	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	56.9	25.86	36
B104	1305-01-057-5335	CARTRIDGE, 30MM PGU-13B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1			04	2368	1076.36	1176
B104	1305-01-063-2168	CARTRIDGE, 30MM PGU-13/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	2368	1076.36	1176
B104	1305-01-093-3339	CARTRIDGE, 30MM PGU-13/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	2229	1013.18	1150
B104	1305-01-095-9650	CARTRIDGE, 30MM PGU-13/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1			04	1115	506.82	575
B104	1305-01-109-6985	CARTRIDGE, 30MM PGU-13A/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	1115	506.82	575
B104	1305-01-144-9301	CARTRIDGE, 30MM HEI PGU-13A/B	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1			04	1115	506.82	575
B104	1305-01-161-0621	CARTRIDGE, 30MM PGU-13A/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	1115	506.82	575
B104	1305-01-161-0623	CARTRIDGE, 30MM PGU-13A/B HEI	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.196632	0.433500	3	1			04	1115	506.82	575
B104	1305-01-225-8203	CARTRIDGE, 30MM PGU-13A/B HEI (HONEYWELL)	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.199944	0.440800	3	1			04	1115	506.82	575
B116	1305-00-416-5813	CARTRIDGE, 30MM TP PGU-15/B	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150048	0.330800	4	1.4				86	39.09	36
B116	1305-01-023-1907	CARTRIDGE, 30MM TP PGU-15/B	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150139	0.331000	4	1.4				86	39.09	36
B116	1305-01-057-7914	CARTRIDGE, 30MM PGU-15/B TP	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150048	0.330800	4	1.4				1169	531.36	588
B116	1305-01-059-2594	CARTRIDGE, 30MM PGU-15/B TP	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150139	0.331000	4	1.4				1169	531.36	588
B116	1305-01-093-3338	CARTRIDGE, 30MM PGU-15/B TP	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150139	0.331000	4	1.4				1115	506.82	575

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B116	1305-01-093-9568	CARTRIDGE, 30MM PGU-15/B TP	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150048	0.330800	4	1.4				1115	506.82	575
B116	1305-01-140-8530	CARTRIDGE, 30MM TP PGU-15/B	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150139	0.331000	4	1.4				1115	506.82	575
B116	1305-01-141-6054	CARTRIDGE, 30MM TP PGU-15/B	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150048	0.330800	4	1.4				1115	506.82	575
B116	1305-01-225-8204	CARTRIDGE, 30MM PGU-15/B TP (HONEYWELL)	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.150139	0.331000	4	1.4				1090	495.45	575
B117	1305-01-057-7912	CARTRIDGE, 30MM PGU-14A/B API	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.153722	0.338900	4	1.4				79.5	36.14	36
B117	1305-01-057-7913	CARTRIDGE, 30MM PGU-14A/B API	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.155083	0.341900	4	1.4				90	40.91	36
B118	1305-01-079-5386	CARTRIDGE, 30MM MT88 TP LINKED LT HAND PACKED	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.050349	0.111000	4	1.4				126	57.27	121
B118	1305-01-268-7274	CARTRIDGE, 30MM TP M788, BULK PACK IN M592 CTR	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.050485	0.111300	4	1.4				120	54.55	110
B120	1305-01-078-5505	CARTRIDGE, 30MM M788 TP LINKED RT HAND PACKED	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.050349	0.111000	4	1.4				125.66	57.12	72
B128	1305-00-416-5809	CARTRIDGE, 30MM APIT PGU-14/B	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.155083	0.341900	4	1.4				90	40.91	36
B128	1305-01-023-1909	CARTRIDGE, 30MM APIT PGU-14/B	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.153722	0.338900	4	1.4				79.5	36.14	36
B470	1310-00-143-8863	CARTRIDGE, 40MM M384 HE	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.053025	0.116900	3	1	13		12	52.91	24.05	50
B480	1310-00-180-9359	CARTRIDGE, 40MM PRACTICE M385	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.004717	0.010400	4	1.4				52.91	24.05	50
B504	1310-00-541-6148	CARTRIDGE, 40MM GREEN STAR	0312	CARTRIDGES, SIGNAL	1.4	G	0.085194	0.187820	4	1.4				46.3	21.05	44
B505	1310-00-541-6149	CARTRIDGE, 40MM RED STAR M662	0312	CARTRIDGES, SIGNAL	1.4	G	0.001120	0.002470	4	1.4				46.3	21.05	44
B506	1310-00-541-6150	CARTRIDGE, 40MM RED SMOKE M713	0197	SIGNALS, SMOKE	1.4	G	0.078086	0.172150	4	1.4				46.3	21.05	44
B508	1310-00-541-6152	CARTRIDGE, 40MM GREEN SMOKE M715	0197	SIGNALS, SMOKE	1.4	G	0.078086	0.172150	4	1.4				46.3	21.05	44

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DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B509	1310-00-541-6153	CARTRIDGE, 40MM YELLOW SMOKE M716	0197	SIGNALS, SMOKE	1.4	G	0.078086	0.172150	4	1.4				46.3	21.05	44
B519	1310-01-050-7967	CARTRIDGE, 40MM PRACTICE M781 75 RDS/WD BOX	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.000373	0.000823	4	1.4				52.91	24.05	75
B519	1310-01-107-5404	CARTRIDGE, 40MM PRACTICE M781 44 RDS/WD BOX	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.000373	0.000823	4	1.4				46.3	21.05	44
B519	1310-01-148-8881	CARTRIDGE, 40MM PRACTICE M781 100 RDS/WD BOX	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.000373	0.000823	P	1.4				61.73	28.06	100
B519	1310-01-211-8073	CARTRIDGE, 40MM PRACTICE M781 100 RDS/WBD BOX	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.000373	0.000823	4	1.4				61.73	28.06	100
B534	1310-00-963-4061	CARTRIDGE, 40MM M576 ANTI-PERSONNEL	0012	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	S	0.001724	0.003800	3	1.4				52.91	24.05	72
B535	1310-00-159-3198	CARTRIDGE, 40MM WHITE STAR PARACHUTE M583	0312	CARTRIDGES, SIGNAL	1.4	G	0.093848	0.206900	4	1.4				46.3	21.05	44
B535	1310-00-922-9780	CARTRIDGE, 40MM WHITE STAR PARACHUTE M583 ILL	0312	CARTRIDGES, SIGNAL	1.4	G	0.094347	0.208000	4	1.4				46.3	21.05	44
B536	1310-00-159-3199	CARTRIDGE, 40MM WHITE STAR CLUSTER M585	0312	CARTRIDGES, SIGNAL	1.4	G	0.086636	0.191000	4	1.4				49.9	22.68	44
B536	1310-00-922-9784	CARTRIDGE, 40MM WHITE STAR PARACHUTE M585 ILL	0312	CARTRIDGES, SIGNAL	1.4	G	0.086636	0.191000	4	1.4				46.3	21.05	44
B537	1310-00-935-9229	CARTRIDGE, 40MM CHEMICAL AGENT CS M674	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.103691	0.228600	4	1.4/6.	8	Q		44.09	20.04	32
B537	1310-00-999-3455	CARTRIDGE, 40MM CHEMICAL AGENT CS M674	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.095708	0.211000	4	1.4/6.	8	Q		39.68	18.04	40
B538	1310-00-935-9230	CARTRIDGE, 40MM RED SMOKE M675	0303	AMMUNITION, SMOKE	1.4	G	0.098339	0.216800	4	1.4				52	23.64	32
B542	1310-00-867-6609	CARTRIDGE, 40MM HEDP M430	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.038011	0.083800	3	1	13		04	69	31.36	50
B542	1310-01-159-8043	CARTRIDGE, 40MM M430	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.042724	0.094190	3	1	13		04	59.52	27.05	48

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B542	1310-01-319-1541	CARTRIDGE, 40MM HEDP M430 IN PA120 METAL CONTNR	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.042683	0.094100	3	1	13			45	20.45	32
B542	1310-01-350-0247	CARTRIDGE, 40MM HEDP M430A1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.039698	0.087520	3	1	13			57.6	26.18	48
B542	1310-01-354-8745	CARTRIDGE, 40MM HEDP M430A1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.039698	0.087520	3	1	13			42	19.09	32
B542	1310-01-362-5295	CARTRIDGE, 40MM HEDP M430A1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.039698	0.087520	3	1	13			42	19.09	32
B542	1310-01-362-5296	CARTRIDGE, 40MM HEDP M430	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.042701	0.094140	3	1	13			42	19.09	32
B542	1310-01-419-8203	CARTRIDGE, 40MM, HEDP, M430A1, WITH FUZE, M549A1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.039626	0.087360	3	1	13			42	19.09	32
B542	1310-01-419-9285	CARTRIDGE, 40MM, HEDP, M430A1, WITH FUZE, M549A1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.039626	0.087360	3	1	13			42	19.09	32
B546	1310-00-992-0451	CARTRIDGE, 40MM HEDP M433 PACKED IN FIBER BOX	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.046153	0.101750	3	1	13		04	52.91	24.05	72
B551	1310-00-039-1119	CARTRIDGE, 40MM M81A1 AP	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.326587	0.720000	4	1			08	114.64	52.11	16
B552	1310-00-039-1123	CARTRIDGE, 40MM M81A1 AP-T	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.303907	0.670000	4	1			08	108.03	49.10	16
B552	1310-00-309-4930	CARTRIDGE, 40MM AP-T M81	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.305268	0.673000	4	1			08	115	52.27	16
B552	1310-00-309-4931	CARTRIDGE, 40MM AP-T M81	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.303907	0.670000	4	1			08	46.3	21.05	6
B552	1310-00-309-4932	CARTRIDGE, 40MM AP-T M81	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.305268	0.673000	4	1			08	159	72.27	24
B552	1310-00-309-4933	CARTRIDGE, 40MM AP-T M81	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.305268	0.673000	4	1			08	48	21.82	6
B552	1310-00-309-4934	CARTRIDGE, 40MM AP-T M81	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.305268	0.673000	4	1			08	115	52.27	16

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B552	1310-00-554-0092	CARTRIDGE, 40MM M81A1 AP-T	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.303907	0.670000	4	1			08	115	52.27	16
B567	1310-00-849-2083	CARTRIDGE, 40MM CS M651E1	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.056699	0.125000	3	1.4/6.	8	Q		26.45	12.02	24
B568	1310-00-724-8081	CARTRIDGE, 40MM HE M406	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.035380	0.078000	3	1			04	53	24.09	72
B568	1310-00-841-9288	CARTRIDGE, 40MM HE M406 WITH FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.031615	0.069700	3	1			04	52.91	24.05	72
B569	1310-00-979-3563	CARTRIDGE, 40MM HE ICM M397	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.059285	0.130700	3	1	13			53.5	24.32	72
B571	1310-00-976-0907	CARTRIDGE, 40MM HE M383E1	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.063789	0.140630	3	1	13		12	52.91	24.05	50
B571	1310-01-196-2654	CARTRIDGE, 40MM M383	0006	CARTRIDGES FOR WEAPONS	1.1	E	0.059049	0.130180	3	1	13		12	59.52	27.05	48
B576	1310-00-994-7441	CARTRIDGE, 40MM PRACTICE M385A1	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.004717	0.010400	4	1.4				52.91	24.05	50
B576	1310-01-159-3184	CARTRIDGE, 40MM PRACTICE M385A1	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.004717	0.010400	4	1.4				59.5	27.05	48
B576	1310-01-316-9973	CARTRIDGE, 40MM TP M385A1 IN PA120 CONTAINER	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.004717	0.010400	4	1.4				45	20.45	32
B576	1310-01-361-9039	CARTRIDGE, 40MM PRACTICE M385A1 IN PA120 FOR USMC	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.004863	0.010720	4	1.4				45	20.45	32
B577	1310-00-724-8082	CARTRIDGE, 40MM PRACTICE M407	0015	AMMUNITION, SMOKE	1.2	G	0.004291	0.009460	4	1	8		04	53	24.09	72
B577	1310-00-965-0738	CARTRIDGE, 40MM PRACTICE M407A1	0015	AMMUNITION, SMOKE	1.2	G	0.000363	0.000800	4	1	8		04	52.91	24.05	50
B584	1310-01-218-7069	CARTRIDGE, 40MM TP M918	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.005793	0.012770	4	1.4				59.5	27.05	48
B584	1310-01-317-5948	CARTRIDGE, 40MM TP M918 IN PA120 CONTAINER	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.005792	0.012770	4	1.4				45	20.45	32
B584	1310-01-362-5294	CARTRIDGE, 40MM TP M918 IN PA120 CONT FOR USMC	0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.4	C	0.005947	0.013110	4	1.4				45	20.45	32

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B591	1310-01-280-5090	CARTRIDGE, 35MM TP-T M968 IN METAL CONTAINER	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.144696	0.319000	3	1.4				99	45.00	16
B592	1310-01-283-8652	CARTRIDGE, 40MM TP M918 PACKAGED IN WOODEN BOX	0339	CARTRIDGES, SMALL ARMS	1.4	C	0.005792	0.012770	4	1.4				65.6	29.82	60
B610	1310-00-999-3456	LAUNCHER AND CARTRIDGE, E8	0018	AMMUNITION, TEAR-PRODUCING	1.2	G	3.199995	7.054780	4	6.1	8	Q	04	61.73	28.06	1
B621	1310-00-096-3073	CARTRIDGE, IGNITION M4 FOR 60MM MORTAR	0325	IGNITERS	1.4	G	0.002585	0.005700	7	1.4				41.89	19.04	1000
B621	1310-00-096-3074	CARTRIDGE, IGNITION M4 FOR 60MM MORTAR	0325	IGNITERS	1.4	G	0.002585	0.005700	7	1.4				44.09	20.04	1000
B621	1310-00-096-3075	CARTRIDGE, IGNITION M4 FOR 60MM MORTAR	0325	IGNITERS	1.4	G	0.002585	0.005700	7	1.4				105.8	48.09	500
B627	1310-00-028-4937	CARTRIDGE, 60MM ILLUMINATING M83A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.263084	0.580000	4	1			08	61.73	28.06	9
B627	1310-00-113-5911	CARTRIDGE, 60MM ILLUMINATING M83A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.263084	0.580000	4	1			08	108.03	49.10	16
B627	1310-00-143-7056	CARTRIDGE, 60MM ILLUMINATING M83A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.263084	0.580000	4	1			08	57	25.91	9
B627	1310-00-301-1730	CARTRIDGE, 60MM ILLUMINATING M83A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.263084	0.580000	4	1			08	49	22.27	8
B627	1310-00-782-5518	CARTRIDGE, 60MM ILLUMINATING M83A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.056803	0.125230	4	1			08	62	28.18	9
B630	1310-00-140-1536	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.392630	0.865600	3	1	13	K	12	101.4	46.09	16
B630	1310-00-224-6305	CARTRIDGE, 60MM SMOKE WP	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.403969	0.890600	3	1	13	K	12	57.32	26.05	9
B630	1310-00-782-5517	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.030377	0.066970	3	1	13	K	12	53	24.09	8
B630	1310-00-926-3951	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.392630	0.865600	3	1	13	K	12	56.6	25.73	9
B630	1310-00-926-3976	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.392630	0.865600	3	1	13	K	12	79.36	36.07	12
B630	1310-00-935-6189	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.392630	0.865600	3	1	13	K	12	56.6	25.73	9

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B630	1310-00-935-9129	CARTRIDGE, 60MM SMOKE WP M302	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.392630	0.865600	3	1	13	K	12	56.6	25.73	9
B630	1310-01-240-9252	CARTRIDGE, 60MM M302A2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.532404	1.173750	3	1	13	K	12	57.32	26.05	9
B630	1310-01-240-9253	CARTRIDGE, 60MM M302A2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.393718	0.868000	3	1	13	K	12	108.3	49.23	16
B632	1310-00-015-8809	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	49	22.27	10
B632	1310-00-028-4944	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	49	22.27	10
B632	1310-00-134-8359	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	86	39.09	16
B632	1310-00-143-6898	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	39.68	18.04	8
B632	1310-00-143-7021	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	49	22.27	10
B632	1310-00-180-9974	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	57.32	26.05	9
B632	1310-00-332-3594	CARTRIDGE, 60MM HE M49A4/M49	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.260435	0.574160	3	1			08	46.3	21.05	10
B632	1310-00-542-0383	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	48.5	22.05	10
B632	1310-00-782-5516	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	48.5	22.05	10
B632	1310-00-926-3919	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	52.91	24.05	11
B632	1310-00-926-9308	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	49	22.27	10
B632	1310-00-926-9428	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	50.71	23.05	10
B632	1310-00-935-9130	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	55.5	25.23	12
B632	1310-00-935-9132	CARTRIDGE, 60MM HE M49A2	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.380564	0.839000	3	1			08	66.14	30.06	12
B632	1310-01-240-9254	CARTRIDGE, 60MM M49A4	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.299371	0.660000	3	1			08	77.16	35.07	12
B632	1310-01-240-9255	CARTRIDGE, 60MM M49A4	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.193230	0.426000	3	1			08	85.98	39.08	16

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
B642	1310-01-022-7680	CARTRIDGE, 60MM HE M720 WITH FUZE MULTI-OPTION M734	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.402291	0.886900	3	1			08	112.44	51.11	16
B646	1310-01-236-1354	CARTRIDGE, 60MM SMOKE WP MARKING XM722	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.048035	0.105900	3	1	13	K		112.44	51.11	16
B647	1310-01-258-8689	CARTRIDGE, 60MM ILLUM M721	0171	AMMUNITION, ILLUMINATING	1.2	G	0.308443	0.680000	4	1			08	110.23	50.10	16
C021	1315-00-370-3548	CHARGE, PROPELLING, INCREMENT A PART OF M90A	0279	CHARGES, PROPELLING, FOR CANNON	1.1	C	0.011925	0.026290	7	1	13			26.45	12.02	600
C022	1315-00-378-9841	CHARGE, PROPELLING, INCREMENT B PART OF M90A	0279	CHARGES, PROPELLING, FOR CANNON	1.1	C	0.010886	0.024000	7	1	13			30.86	14.03	800
C025	1315-00-096-3087	CARTRIDGE, 75MM BLANK M337	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.458128	1.010000	7	1	13			79.36	36.07	15
C025	1315-00-096-3088	CARTRIDGE, 75MM BLANK M337	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.458128	1.010000	7	1	13			99.21	45.10	20
C025	1315-00-892-4951	CARTRIDGE, 75MM BLANK M337A1E1	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.453593	1.000000	7	1	13			79.36	36.07	15
C025	1315-01-307-3944	CARTRIDGE, 75MM BLANK M337A2	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.453593	1.000000	7	1	13			81.57	37.08	15
C226	1315-00-028-4964	CARTRIDGE, 81MM ILLUMINATING M301A2	0171	AMMUNITION, ILLUMINATING	1.2	G	0.725748	1.600000	4	1			08	55.11	25.05	3
C226	1315-00-143-7048	CARTRIDGE, 81MM ILLUMINATING M301A2	0171	AMMUNITION, ILLUMINATING	1.2	G	0.771107	1.700000	4	1		J	08	53.6.24.36	#VALUE!	
C226	1315-00-143-7122	CARTRIDGE, 81MM ILLUMINATING M301A2	0171	AMMUNITION, ILLUMINATING	1.2	G	0.725748	1.600000	4	1		J	08	52.91	24.05	3
C226	1315-00-164-5290	CARTRIDGE, 81MM ILLUMINATING M301A1	0171	AMMUNITION, ILLUMINATING	1.2	G	0.809341	1.784290	4	1		J	08	52.91	24.05	3
C226	1315-00-164-5339	CARTRIDGE, 81MM ILLUMINATING M301A3	0171	AMMUNITION, ILLUMINATING	1.2	G	0.809341	1.784290	4	1		J	08	52.91	24.05	3
C226	1315-01-277-5554	CARTRIDGE, 81MM ILLUMINATING M301A1	0171	AMMUNITION, ILLUMINATING	1.2	G	0.738911	1.629020	4	1		J	08	52.91	24.05	3
C236	1315-00-143-7184	CARTRIDGE, 81MM HE M374A2 WITH FUSE	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.982608	2.166280	3	1			08	52	23.64	3
C236	1315-00-935-6007	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.983066	2.167290	3	1			08	44.09	20.04	3
C236	1315-00-935-6013	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.983066	2.167290	3	1			08	52.91	24.05	3
C236	1315-00-935-6033	CARTRIDGE, 81MM HE M374 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.983066	2.167290	3	1			08	51	23.18	3

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C236	1315-00-965-0597	CARTRIDGE, 81MM HE M374 WITHOUT	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.100415	2.426000	3	1			08	48.5	22.05	4
C243	1315-00-028-4954	CARTRIDGE, IGNITION M3 FOR MORTAR	0325	IGNITERS	1.4	G	0.007756	0.017100	U	1.4				44.09	20.04	500
C243	1315-00-555-4274	CARTRIDGE, IGNITION M3 FOR MORTAR	0325	IGNITERS	1.4	G	0.007756	0.017100	U	1.4				44.09	20.04	500
C243	1315-01-007-9170	CARTRIDGE, IGNITION M3 FOR USE WITH D	0325	IGNITERS	1.4	G	0.007711	0.017000	4	1.4				37.48	17.04	200
C256	1315-00-134-8984	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.009157	2.224810	3	1			08	50.71	23.05	3
C256	1315-00-143-6960	CARTRIDGE, 81MM HE M374 WITH FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	46.3	21.05	3
C256	1315-00-164-5342	CARTRIDGE, 81MM HE M374 COMP	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	50.71	23.05	3
C256	1315-00-464-7272	CARTRIDGE, 81MM HE COMP B M3	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	50.71	23.05	3
C256	1315-00-498-6407	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	50.71	23.05	3
C256	1315-00-563-7067	CARTRIDGE, 81MM HE M374A3	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.014968	2.237620	3	1			08	46.3	21.05	3
C256	1315-00-782-5544	CARTRIDGE, 81MM HE M374 WITH FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.085519	2.393160	3	1			08	49.1	22.32	4
C256	1315-00-782-5547	CARTRIDGE, 81MM HE M374 WITH FU	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	48.5	22.05	4
C256	1315-00-935-1931	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.019876	2.248440	3	1			08	50.71	23.05	3
C256	1315-00-935-6002	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	48.5	22.05	3
C256	1315-00-935-6008	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.952544	2.100000	3	1			08	48.5	22.05	3
C256	1315-00-935-6010	CARTRIDGE, 81MM HE M374 COMP	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	50.71	23.05	3
C256	1315-00-935-6011	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.085519	2.393160	3	1			08	48.5	22.05	3
C256	1315-00-935-6029	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.085519	2.393160	3	1			08	50.71	23.05	3
C256	1315-00-935-6030	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.085519	2.393160	3	1			08	50.71	23.05	3
C256	1315-00-935-6031	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.019876	2.248440	3	1			08	50.71	23.05	3
C256	1315-00-935-6032	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.019876	2.248440	3	1			08	50.71	23.05	3

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C256	1315-01-127-7481	CARTRIDGE, 81MM HE M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.101323	2.428000	3	1			08	50.71	23.05	3
C256	1315-01-147-6307	CARTRIDGE, 81MM M374	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.010781	2.228390	3	1			08	50.71	23.05	3
C276	1315-00-241-9275	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.156716	0.345500	3	1	13	K	12	48.5	22.05	3
C276	1315-00-444-0132	CARTRIDGE, 81MM SMOKE WP	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	59.52	27.05	3
C276	1315-00-498-6406	CARTRIDGE, 81MM SMOKE WP M375A2 DOT-E 10489	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.154739	0.341140	3	1	13	K		50.71	23.05	3
C276	1315-00-574-7680	CARTRIDGE, 81MM SMOKE WP M375A3 DOT-E 10489	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.157778	0.347840	3	1	13	K		46.3	21.05	3
C276	1315-00-782-5514	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	48.5	22.05	3
C276	1315-00-782-5543	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	48.5	22.05	4
C276	1315-00-782-5838	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	48.5	22.05	4
C276	1315-00-935-1926	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	51	23.18	3
C276	1315-00-935-6003	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.907185	2.000000	3	1	13	K	12	50.71	23.05	3
C276	1315-00-935-6068	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	50.71	23.05	3
C276	1315-00-935-6075	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	50.71	23.05	3
C276	1315-00-935-6076	CARTRIDGE, 81MM SMOKE WP M375	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.059139	2.335000	3	1	13	K	12	50.71	23.05	3

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C380	1315-01-316-1211	CARTRIDGE, 120MM APFSDS-T M829A1	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.654545	19.080000	U	1		M	08	74.96	34.07	1
C440	1315-00-028-5033	CARTRIDGE, 105MM BLANK M395	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.776369	1.711600	7	1	13			97.00	44.09	10
C440	1315-00-028-5036	CARTRIDGE, 105MM BLANK M395	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.776369	1.711600	7	1	13			97.00	44.09	10
C440	1315-00-353-7034	CARTRIDGE, 105MM BLANK M395 B	0327	CARTRIDGES FOR WEAPONS, BLANK	1.3	C	0.775643	1.710000	7	1	13			97.00	44.09	10
C445	1315-00-028-4809	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-028-4830	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-028-4857	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-028-4859	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-028-4860	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-028-4861	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C445	1315-00-145-7554	CARTRIDGE, 105MM HE TNT M1 M1	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-146-6853	CARTRIDGE, 105MM HE M1 BRASS	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-215-8884	CARTRIDGE, 105MM HE TNT M1 M1	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-215-8885	CARTRIDGE, 105MM COMP B HE M1	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-215-8886	CARTRIDGE, 105MM COMP B HE M1	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-231-4629	CARTRIDGE, 105MM COMP B HE M1	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.379264	7.450000	7	1			12	119.05	54.11	2
C445	1315-00-926-4081	CARTRIDGE, 105MM HE M1 WITHOUT FUZE	0321	CARTRIDGES FOR WEAPONS	1.2	E	3.525775	7.773000	7	1			12	119.05	54.11	2
C448	1315-00-028-4806	CARTRIDGE, 105MM HEP-T M327	0006	CARTRIDGES FOR WEAPONS	1.1	E	7.059713	15.564000	7	1	13			119.05	54.11	2
C448	1315-00-028-4835	CARTRIDGE, 105MM HEP-T M327	0006	CARTRIDGES FOR WEAPONS	1.1	E	7.059713	15.564000	7	1	13			105.822	48.10	2
C448	1315-00-186-0073	CARTRIDGE, 105MM HEP-T COMP A	0006	CARTRIDGES FOR WEAPONS	1.1	E	5.270745	11.620000	7	1	13			119.05	54.11	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C448	1315-00-186-0076	CARTRIDGE, 105MM HEP-T COMP A	0006	CARTRIDGES FOR WEAPONS	1.1	E	5.270745	11.620000	7	1	13			119.05	54.11	2
C448	1315-00-262-3031	CARTRIDGE, 105MM HEP-T COMP 4	0006	CARTRIDGES FOR WEAPONS	1.1	E	5.270745	11.620000	7	1	13			119.05	54.11	2
C449	1315-00-028-4794	CARTRIDGE, 105MM ILLUMINATING M314	0171	AMMUNITION, ILLUMINATING	1.2	G	2.154564	4.750000	7	1			08	119.05	54.11	2
C449	1315-00-028-4823	CARTRIDGE, 105MM ILLUMINATING M314	0171	AMMUNITION, ILLUMINATING	1.2	G	2.154564	4.750000	7	1			08	119.05	54.11	2
C449	1315-00-148-1129	CARTRIDGE, 105MM ILLUMINATING M314A3	0171	AMMUNITION, ILLUMINATING	1.2	G	2.154564	4.750000	U	1			08	119.05	54.11	2
C449	1315-00-782-5531	CARTRIDGE, 105MM ILLUMINATING M314	0171	AMMUNITION, ILLUMINATING	1.2	G	2.154564	4.750000	7	1			08	119.05	54.11	2
C449	1315-00-926-9299	CARTRIDGE, 105MM ILLUMINATING M314	0171	AMMUNITION, ILLUMINATING	1.2	G	2.154564	4.750000	7	1			08	119.05	54.11	2
C452	1315-00-143-6986	CARTRIDGE, 105MM SMOKE HC M84	0015	AMMUNITION, SMOKE	1.2	G	4.735506	10.440000	7	1	8	M	12	119.05	54.11	2
C452	1315-00-182-3156	CARTRIDGE, 105MM SMOKE HC M84	0015	AMMUNITION, SMOKE	1.2	G	4.735506	10.440000	7	1	8	M	12	119.05	54.11	2
C452	1315-01-031-0713	CARTRIDGE, 105MM M84A1	0015	AMMUNITION, SMOKE	1.2	G	6.862854	15.130000	7	1	8	M	12	119.05	54.11	2
C454	1315-00-028-4812	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.700065	3.748000	U	1	13	J	12	70.55	32.07	1
C454	1315-00-028-4831	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	121.25	55.11	2
C454	1315-00-113-5741	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.700065	3.748000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-143-7616	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-145-7536	CARTRIDGE, 105MM SMOKE WP M60A1	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-439-6121	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-439-6122	CARTRIDGE, 105MM SMOKE WP M60A1	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	3.220507	7.100000	7	1	13	J	12	119.05	54.11	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C454	1315-00-470-5368	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-892-4895	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	3.213249	7.084000		1	13	J	12	119.05	54.11	2
C454	1315-00-892-4999	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.998246	6.610000	7	1	13	J	12	119.05	54.11	2
C454	1315-00-965-0573	CARTRIDGE, 105MM SMOKE WP M60	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.700065	3.748000	7	1	13	J	12	70.55	32.07	1
C462	1315-00-461-3323	CARTRIDGE, 105MM APERS HE ICM	0321	CARTRIDGES FOR WEAPONS	1.2	E	4.594892	10.130000	7	1			12	119.05	54.11	2
C462	1315-00-797-7199	CARTRIDGE, 105MM HE M413 AND M444	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.742975	3.842600	7	1			18	119.05	54.11	2
C462	1315-00-965-0739	CARTRIDGE, 105MM HE M413 AND M444	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.742975	3.842600	7	1			18	119.05	54.11	2
C479	1315-01-268-0384	CARTRIDGE, 105MM HC SMOKE, M84A1 WITHOUT FUZE	0015	AMMUNITION, SMOKE	1.2	G	1.371274	3.023140	U	1	8	M	12	119.05	54.11	2
C508	1315-00-926-3989	CARTRIDGE, 105MM HEAT COMP B M456	0321	CARTRIDGES FOR WEAPONS	1.2	E	6.413798	14.140000	7	1			12	136.69	62.13	2
C508	1315-01-023-7122	CARTRIDGE, 105MM HEAT COMP B M456	0321	CARTRIDGES FOR WEAPONS	1.2	E	6.413798	14.140000		1			12	132.277	60.13	2
C511	1315-00-965-0713	CARTRIDGE, 105MM TP-T M490	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	1.247379	2.750000	7	1			08	136.69	62.13	2
C511	1315-01-090-0168	CARTRIDGE, 105MM M490	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	1.247379	2.750000	7	1			08	136.69	62.13	2
C511	1315-01-107-2513	CARTRIDGE, 105MM TP-T M490	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	5.273467	11.626000	7	1			08	136.69	62.13	2
C513	1315-00-143-7121	CARTRIDGE, 105MM APERS M546	0321	CARTRIDGES FOR WEAPONS	1.2	E	2.998246	6.610000		1			12	122	55.45	2
C513	1315-00-143-7768	CARTRIDGE, 105MM APERS M546	0321	CARTRIDGES FOR WEAPONS	1.2	E	2.998246	6.610000	7	1			12	121.254	55.12	2
C513	1315-00-935-1977	CARTRIDGE, 105MM APERS M546	0321	CARTRIDGES FOR WEAPONS	1.2	E	1.406137	3.100000	7	1			12	121.254	55.12	2
C513	1315-00-935-1978	CARTRIDGE, 105MM APERS M546	0321	CARTRIDGES FOR WEAPONS	1.2	E	2.998246	6.610000	7	1			12	121.254	55.12	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C513	1315-00-935-1980	CARTRIDGE, 105MM APERS M546	0321	CARTRIDGES FOR WEAPONS	1.2	E	2.998246	6.610000		1			12	122	55.45	2
C650	1315-00-141-0232	CARTRIDGE, 106MM HEAT COMP B	0321	CARTRIDGES FOR WEAPONS	1.2	E	4.939622	10.890000	7	1			12	119.049	54.11	2
C650	1315-00-343-3612	CARTRIDGE, 106MM HEAT M344	0321	CARTRIDGES FOR WEAPONS	1.2	E	4.939622	10.890000	7	1			12	119.049	54.11	2
C650	1315-00-965-0564	CARTRIDGE, 106MM HEAT M344	0321	CARTRIDGES FOR WEAPONS	1.2	E	4.939622	10.890000	7	1			12	119.049	54.11	2
C697	1315-01-211-8411	CARTRIDGE, 4.2 INCH HE M329A2 WITH SCRUBBER OBTURATOR	0006	CARTRIDGES FOR WEAPONS	1.1	E	3.004538	6.623870	7	1	13			70	31.82	2
C706	1315-00-028-5015	CARTRIDGE, 4.2 INCH ILLUMINATING M335	0171	AMMUNITION, ILLUMINATING	1.2	G	1.883461	4.152320	7	1		J	08	76	34.55	2
C706	1315-00-482-8452	CARTRIDGE, 4.2 INCH 107MM ILLUMINATING M335A1	0171	AMMUNITION, ILLUMINATING	1.2	G	1.883461	4.152320		1		J	08	76	34.55	2
C706	1315-00-761-2073	CARTRIDGE, 4.2 INCH M335	0171	AMMUNITION, ILLUMINATING	1.2	G	1.886214	4.158390		1		J	08	76	34.55	2
C706	1315-00-935-9212	CARTRIDGE, 4.2 INCH ILLUMINATING M335	0171	AMMUNITION, ILLUMINATING	1.2	G	0.353671	0.779710		1		J	08	76	34.55	2
C706	1315-00-965-0788	CARTRIDGE, 4.2 INCH ILLUMINATING M335	0171	AMMUNITION, ILLUMINATING	1.2	G	1.883461	4.152320		1		J	08	76	34.55	2
C706	1315-01-129-9337	CARTRIDGE, 4.2 INCH ILLUMINATING M335A2 WITH FUZE M577	0171	AMMUNITION, ILLUMINATING	1.2	G	0.386642	0.852400		1		J	08	82	37.27	2
C708	1315-00-008-7787	CARTRIDGE, 4.2 INCH 107MM SMOKE WP M328	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-028-5006	CARTRIDGE, 4.2 INCH 107MM SMOKE WP M2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-028-5014	CARTRIDGE, 4.2 INCH SMOKE WP OR PWP M2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-028-5020	CARTRIDGE, 4.2 INCH SMOKE WP OR PWP M2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-485-6032	CARTRIDGE, 4.2 INCH 107MM SMOKE WP M328	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C708	1315-00-926-1935	CARTRIDGE, 4.2 INCH SMOKE WP OR PWP M2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-935-9131	CARTRIDGE, 4.2 INCH 107MM SMOKE WP	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274157	9.422900	7	1	13	K	12	76	34.55	2
C708	1315-00-935-9214	CARTRIDGE, 4.2 INCH SMOKE WP OR PWP M2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	3.843743	8.474000	7	1	13	K	12	76	34.55	2
C708	1315-00-965-0846	CARTRIDGE, 4.2 INCH 107MM SMOKE WP	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	4.274248	9.423100	7	1	13	K	12	76	34.55	2
C751	1315-00-403-5603	BURSTER, PROJECTILE XM53	0043	BURSTERS	1.1	D	0.095254	0.210000	3	1	13	K		66.139	30.06	100
C751	1315-00-459-7295	BURSTER, PROJECTILE XM53	0043	BURSTERS	1.1	D	0.095254	0.210000	3	1	13	K		66.139	30.06	100
C784	1315-01-165-6487	CARTRIDGE, 120MM TP-T M831 IN WOODEN BOX	0417	CARTRIDGES, SMALL ARMS	1.3	C	5.490175	12.103800	7	1				88.185	40.08	1
C784	1315-01-250-8636	CARTRIDGE, 120MM TP-T M831 IN PA-116 30/ARMY	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	6.318997	13.931000	7	1			08	74.957	34.07	1
C784	1315-01-292-7754	CARTRIDGE, 120MM TP-T M831 IN PA116 25/USMC	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	6.318997	13.931000	7	1			08	74.957	34.07	1
C784	1315-01-369-6612	CARTRIDGE, 120MM TP-T M831A1 IN MTL 30 FOR ARMY	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	6.335000	13.966280	7	1			08	74.957	34.07	1
C785	1315-01-165-6488	CARTRIDGE, 120MM TPCSDS-T M865 IN WOODEN BOX	0417	CARTRIDGES, SMALL ARMS	1.3	C	7.325769	16.150600	7	1				77.162	35.07	1
C785	1315-01-242-4796	CARTRIDGE, 120MM TPCSDS-T M865 IN PA116 30/AR	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.874537	19.565001	7	1			08	63.934	29.06	1
C785	1315-01-288-5545	CARTRIDGE, 120MM TPCSDS-T M865 (HONEYWELL)	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.874537	19.565001	7	1			08	63.2	28.73	1
C785	1315-01-292-7755	CARTRIDGE, 120MM TPCSDS-T M865 IN PA116 25/MC	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.874537	19.565001	7	1			08	63.934	29.06	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C785	1315-01-305-9252	CARTRIDGE, 120MM TPCSDS-T M865 F3 HONEYWELL	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.875444	19.566999	7	1			08	63.934	29.06	1
C786	1315-01-168-6108	CARTRIDGE, 120MM APFSDS-T M829	0417	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.3	C	8.122735	17.907600	7	1		N		79.366	36.08	1
C786	1315-01-226-7418	CARTRIDGE, 120MM APFSDS-T M829 IN PA116 30/AR	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.141078	17.948000	7	1		N	08	63.934	29.06	1
C786	1315-01-292-7753	CARTRIDGE, 120MM APFSDS-T M829 IN PA116 25/MC	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	8.141078	17.948000	7	1		N	08	63.934	29.06	1
C787	1315-01-190-3371	CARTRIDGE, 120MM HEAT-MP-T M830	0321	CARTRIDGES FOR WEAPONS	1.2	E	7.407166	16.330000	7	1			08	88.185	40.08	1
C787	1315-01-232-4638	CARTRIDGE, 120MM HEAT-MP-T M830 IN PA116 30/AR	0321	CARTRIDGES FOR WEAPONS	1.2	E	7.382218	16.275000	7	1			08	74.957	34.07	1
C787	1315-01-292-9868	CARTRIDGE, 120MM HEAT-MP-T M830 IN PA116 25/MC	0321	CARTRIDGES FOR WEAPONS	1.2	E	7.382218	16.275000	7	1			08	74.957	34.07	1
C788	1315-01-315-1328	CARTRIDGE, 120MM HE M57 WITH FUZE PD M935	0321	CARTRIDGES FOR WEAPONS	1.2	E	2.702504	5.958000	7	1			08	28.7	13.05	2
C869	1315-01-158-8200	CARTRIDGE, 81MM HE M889	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.782447	1.725000	3	1			08	57.32	26.05	3
C869	1315-01-353-7619	CARTRIDGE, 81MM HE M889A1 WITH FUZE PD M935	0006	CARTRIDGES FOR WEAPONS	1.1	E	1.067575	2.353600	3	1	13			50.4	22.91	3
C869	1315-01-357-6159	CARTRIDGE, 81MM HE M889 WITH FUZE PD M935	0321	CARTRIDGES FOR WEAPONS	1.2	E	0.938619	2.069300	3	1			07	55	25.00	3
C870	1315-01-199-8688	CARTRIDGE, 81MM M819 RP WITH FUZE MTSQ M772	0016	AMMUNITION, SMOKE	1.3	G	0.147554	0.325300	4	1	8	J	04	63.934	29.06	3
C870	1315-01-353-7620	CARTRIDGE, 81MM SMOKE RP M819 WITH FUZE M772	0016	AMMUNITION, SMOKE	1.3	G	1.351506	2.979560		1	8	J	03	57.8	26.27	3
C871	1315-01-199-8689	CARTRIDGE, 81MM ILLUMINATING M853 WITH FUZE M768	0171	AMMUNITION, ILLUMINATING	1.2	G	0.852754	1.880000	4	1		J	04	57.5	26.14	3

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
C871	1315-01-289-9789	CARTRIDGE, 81MM ILLUMINATING M853A1 WITH FUZE M772	0171	AMMUNITION, ILLUMINATING	1.2	G	0.847265	1.867900	4	1		J	04	57.5	26.14	3
C871	1315-01-353-7617	CARTRIDGE, 81MM ILLUMINATING M853A1 WITH FUZE M772 IN MTLCTNR	0254	AMMUNITION, ILLUMINATING	1.3	G	0.847265	1.867900	4	1		J		57.5	26.14	3
C876	1315-01-216-7071	CARTRIDGE, 81MM PRACTICE SHORT RANGE M880	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.016647	0.036700	4	1.4		J		57.5	26.14	3
C995	1315-01-245-4950	LAUNCHER AND CARTRIDGE, 84MM M136 AT4	0181	ROCKETS	1.1	E	0.834610	1.840000	1	1	13		12	113	51.36	5
D003	1320-00-171-0760	CHARGE, SPOTTING, FOR PROJECTILES M483A1 + M509	0060	CHARGES, SUPPLEMENTARY EXPLOSIVE	1.1	D	0.046720	0.103000	3	1	13			32	14.55	48
D028	1320-01-052-1318	CHARGE ASSEMBLY, EXPULSION	0027	GUNPOWDER	1.1	D	0.095254	0.210000	4	1	13			74	33.64	128
D501	1320-00-434-8856	PROJECTILE, 155MM HE M692	0169	PROJECTILES	1.2	D	0.856609	1.888500	7	1			12	886	402.73	8
D501	1320-01-261-6043	PROJECTILE, 155MM HE M692	0169	PROJECTILES	1.2	D	0.856609	1.888500	7	1			12	886	402.73	8
D501	1320-01-365-0788	PROJECTILE, 155MM HE M692 ON STEEL PALLET	0169	PROJECTILES	1.2	D	0.841886	1.856040	7	1			12	881	400.45	8
D502	1320-00-434-8861	PROJECTILE, 155MM HE M731	0169	PROJECTILES	1.2	D	0.856609	1.888500	7	1			12	886	402.73	8
D502	1320-01-260-8719	PROJECTILE, 155MM HE M731	0169	PROJECTILES	1.2	D	0.856609	1.888500	7	1			12	886	402.73	8
D502	1320-01-365-2427	PROJECTILE, 155MM HE M731 ON STEEL PALLET	0169	PROJECTILES	1.2	D	0.841886	1.856040	7	1			12	881	400.45	8
D503	1320-01-050-6059	PROJECTILE, 155MM, HE, RAAM-L, M718	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			882	400.91	8
D503	1320-01-268-0387	PROJECTILE, 155MM, HE, RAAM-L, M718	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			882	400.91	8
D503	1320-01-362-9847	PROJECTILE, 155MM, HE, RAAM-L, M718	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			897	407.73	
D505	1320-00-926-1940	PROJECTILE, 155MM ILLUMINATING M485	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801079	6.175320	7	1		J		797	362.27	8
D505	1320-00-926-9388	PROJECTILE, 155MM ILLUMINATING M485A1	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801079	6.175320	7	1		J		797	362.27	8

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
D505	1320-00-935-2091	PROJECTILE, 155MM ILLUMINATING M485A2	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801079	6.175320	7	1		J		797	362.27	8
D505	1320-01-364-4955	PROJECTILE, 155MM ILLUMINATING M485A2 ON STEELPALLET	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801083	6.175330	7	1		J		789	358.64	8
D505	1320-01-365-2426	PROJECTILE, 155MM ILLUMINATING M485 ON STEEL PALLET	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801083	6.175330	7	1		J		789	358.64	8
D505	1320-01-365-2428	PROJECTILE, 155MM ILLUMINATING M485A1 ON STEEL PALLET	0254	AMMUNITION, ILLUMINATING	1.3	G	2.801083	6.175330	7	1		J		789	358.64	8
D506	1320-00-926-9276	PROJECTILE, 155MM SMOKE HC BE M116E2	0016	AMMUNITION, SMOKE	1.3	G	11.875052	26.180000	7	1	8	M		948	430.91	8
D509	1320-01-050-7966	PROJECTILE, 155MM, HE, RAAM-S, M741	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			882	400.91	8
D509	1320-01-268-0386	PROJECTILE, 155MM, HE, RAAM-S, M741	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			882	400.91	8
D509	1320-01-363-6469	PROJECTILE, 155MM, HE, RAAM-S, M741	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			897	407.73	8
D510	1320-01-077-4279	PROJECTILE, 155MM M712	0168	PROJECTILES	1.1	D	6.694571	14.759000	3	1	13			205.03	93.20	1
D513	1320-01-097-4872	PROJECTILE, 155MM PRACTICE M804	0362	AMMUNITION, PRACTICE	1.4	G	0.189602	0.418000	7	1.4				780	354.55	8
D513	1320-01-337-8862	PROJECTILE, 155MM PRACTICE M804E1	0344	PROJECTILES	1.4	D	0.479992	1.058200	7	1.4				780	354.55	8
D514	1320-01-150-7857	PROJECTILE, 155MM, HE, RAAM-S, M741A1	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			881.848	400.84	8
D514	1320-01-268-0385	PROJECTILE, 155MM, HE, RAAM-S, M741A1	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			882	400.91	8
D514	1320-01-363-1272	PROJECTILE, 155MM, HE, RAAM-S, M741A1	0168	PROJECTILES	1.1	D	5.326219	11.742300	7	1	13			897	407.73	8
D528	1320-01-140-2611	PROJECTILE, 155MM SMOKE WP M825 DOT-E 10489	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.074149	0.163470	7	1	13	K	02	881.84	400.84	8
D528	1320-01-280-5320	PROJECTILE, 155MM SMOKE WP M825A1 DOT-E 10489	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.074149	0.163470	7	1	13	K	02	870	395.45	8
D528	1320-01-364-4515	PROJECTILE, 155MM SMOKE WP M825	0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.3	H	0.074149	0.163470	7	1	13	K	02	877	398.64	8

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
D532	1320-01-033-9394	CHARGE, PROPELLING, 155MM	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	11.935153	26.312500	7	1				55.15	25.07	1
D532	1320-01-202-8938	CHARGE, PROPELLING, 155MM	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	13.607775	30.000000	7	1				52.91	24.05	1
D533	1320-00-143-6847	CHARGE, PROPELLING, 155MM WHITE BAG M119	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	9.487340	20.916000	7	1				41.8	19.00	1
D533	1320-01-051-4132	CHARGE, PROPELLING, 155MM M119A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	9.298646	20.500000	7	1				44.09	20.04	1
D533	1320-01-093-6856	CHARGE, PROPELLING, 155MM M119A2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	10.078825	22.219999	7	1				41.8	19.00	1
D533	1320-01-310-4857	CHARGE, PROPELLING, M119A2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	9.525442	21.000000	7	1				27	12.27	1
D533	1320-01-312-9058	CHARGE, PROPELLING, M119A2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	9.525442	21.000000	7	1				37	16.82	1
D540	1320-00-008-7789	CHARGE, PROPELLING, 155MM M3 GREEN BAG	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.580488	5.689000	U	1				28.66	13.03	2
D540	1320-00-008-7790	CHARGE, PROPELLING, 155MM M3A1M3E1 GRE	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.494759	5.500000	U	1				28.66	13.03	2
D540	1320-00-028-4873	CHARGE, PROPELLING, 155MM M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.624486	5.786000	7	1				28.66	13.03	2
D540	1320-00-028-4876	CHARGE, PROPELLING, 155MM M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.638548	5.817000	7	1				28.5	12.95	2
D540	1320-00-935-1922	CHARGE, PROPELLING, 155MM M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.526510	5.570000	7	1				28.66	13.03	2
D540	1320-00-965-0556	CHARGE, PROPELLING, 155MM M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.608157	5.750000	7	1				26.5	12.05	2
D540	1320-01-307-3952	CHARGE, PROPELLING, M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.494759	5.500000	7	1				26.5	12.05	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
D540	1320-01-312-9059	CHARGE, PROPELLING, M3A1	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	2.494759	5.500000	7	1				26.5	12.05	2
D541	1320-00-028-4878	CHARGE, PROPELLING, 155MM M4	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	6.162961	13.587000	7	1				28.5	12.95	1
D541	1320-00-028-4879	CHARGE, PROPELLING, 155MM M4	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	6.177022	13.618000	7	1				30.86	14.03	1
D541	1320-00-935-1923	CHARGE, PROPELLING, 155MM M4	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	6.250504	13.780000	7	1				28.66	13.03	1
D541	1320-01-307-3953	CHARGE, PROPELLING, M4A2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	6.350295	14.000000	7	1				27	12.27	1
D541	1320-01-317-2382	CHARGE, PROPELLING, M4A2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	6.350295	14.000000	7	1				27	12.27	1
D544	1320-00-028-4889	PROJECTILE, 155MM HE M107	0168	PROJECTILES	1.1	D	6.758528	14.900000	7	1	13		18	797	362.27	8
D544	1320-00-529-7331	PROJECTILE, 155MM HE M107	0168	PROJECTILES	1.1	D	6.758528	14.900000	7	1	13		18	798.07	362.76	8
D544	1320-00-782-5532	PROJECTILE, 155MM HE M107	0168	PROJECTILES	1.1	D	6.758528	14.900000	7	1	13		18	798.07	362.76	8
D544	1320-00-926-9319	PROJECTILE, 155MM HE M107 M107B2	0168	PROJECTILES	1.1	D	7.121402	15.700000	7	1	13		18	798.07	362.76	8
D544	1320-01-257-4222	PROJECTILE, 155MM HE M107	0168	PROJECTILES	1.1	D	7.121402	15.700000	7	1	13		18	798.07	362.76	8
D544	1320-01-362-9846	PROJECTILE, 155MM HE M107 WITH SUP CHARGE METAL PALLET	0168	PROJECTILES	1.1	D	7.121402	15.700000	7	1	13		18	825	375.00	8
D550	1320-00-028-4883	PROJECTILE, 155MM SMOKE WP M110 WITHOUT FUZE	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	7.076043	15.600000	7	1	13	K	12	824.53	374.79	8
D550	1320-00-143-8383	PROJECTILE, 155MM SMOKE WP M105 M110	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.208653	0.460000	7	1	13	K	12	828.94	376.79	8
D550	1320-00-318-8138	PROJECTILE, 155MM SMOKE WP M110A2 WITHOUT FUZE	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	7.076043	15.600000	7	1	13	K	12	828.94	376.79	8

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
D550	1320-00-529-7339	PROJECTILE, 155MM SMOKE WP M105 M110	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	7.076043	15.600000	7	1	13	K	12	828.94	376.79	8
D550	1320-00-935-9143	PROJECTILE, 155MM SMOKE WP M105 M110	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	7.076043	15.600000	7	1	13	K	12	828.94	376.79	8
D550	1320-01-363-6470	PROJECTILE, 155MM SMOKE WP M110A2	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.208653	0.460000	7	1	13	K	12	857	389.55	8
D550	1320-01-364-4516	PROJECTILE, 155MM SMOKE WP M110A1	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.187969	0.414400	7	1	13	K	12	833	378.64	8
D550	1320-01-364-4954	PROJECTILE, 155MM SMOKE WP M110	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	0.376482	0.830000	7	1	13	K	12	833	378.64	8
D552	1320-00-028-4891	REDUCER, FLASH PROPELLING CHARGE M2	0027	GUNPOWDER	1.1	D	0.044434	0.097960	7	1	13			56	25.45	400
D552	1320-00-935-6053	REDUCER, FLASH PROPELLING CHARGE M2	0027	GUNPOWDER	1.1	D	0.044434	0.097960	7	1	13			1402	637.27	800
D570	1320-00-555-5126	CARTRIDGE, 165MM HEP M123A1	0167	PROJECTILES	1.1	F	16.773540	36.979301	7	1	13			92.4	42.00	1
D579	1320-00-936-8278	PROJECTILE, 155MM HERA M549	0168	PROJECTILES	1.1	D	10.352931	22.824301	7	1	13		18	820	372.73	8
D579	1320-01-047-6009	PROJECTILE, 155MM HERA M549A1	0168	PROJECTILES	1.1	D	9.899339	21.824301	7	1	13		18	815.71	370.78	8
D579	1320-01-411-8115	PROJECTILE, 155MM HERA M549 ON STEEL PALLET	0168	PROJECTILES	1.1	D	10.352976	22.824400	7	1	13		18	92.4	42.00	
D590	1320-00-926-4072	CARTRIDGE, 165MM TP XM623	0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2	C	0.961616	2.120000	7	1			08	92.4	42.00	1
D661	1320-00-185-7212	CHARGE, PROPELLING, M188	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	19.799313	43.650002	7	1				75	34.09	1
D662	1320-01-070-4485	CHARGE, PROPELLING, 8 INCH	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	18.143700	40.000000	7	1				77.16	35.07	1
D662	1320-01-070-4486	CHARGE, PROPELLING, 8 INCH M188A1 IN PA92 CONTAINER	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	22.507259	49.619999	7	1				77	35.00	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
D662	1320-01-231-7231	CHARGE, PROPELLING, 8 INCH M188A1 IN PA 92 CONTAINER	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	20.082808	44.275002	7	1				71	32.27	1
D676	1320-00-028-4375	CHARGE, PROPELLING, 8 INCH M2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	12.841657	28.311001	7	1				48.5	22.05	1
D676	1320-00-028-4378	CHARGE, PROPELLING, 8 INCH M2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	12.841657	28.311001	7	1				52.91	24.05	1
D676	1320-00-113-8006	CHARGE, PROPELLING, M2	0242	CHARGES, PROPELLING, FOR CANNON	1.3	C	12.841204	28.309999	7	1				110	50.00	2
D681	1320-00-028-4368	REDUCER, FLASH M3	0027	GUNPOWDER	1.1	D	0.453593	1.000000	U	1	13			66.14	30.06	50
D681	1320-00-926-9303	REDUCER, FLASH M3	0027	GUNPOWDER	1.1	D	0.453593	1.000000		1	13			61.73	28.06	40
D684	1320-00-769-0275	PROJECTILE, 8 INCH APERS HE ICM	0169	PROJECTILES	1.2	D	2.449399	5.400000	7	1			18	1252.22	569.19	6
D684	1320-00-986-9731	PROJECTILE, 8 INCH HE M404	0169	PROJECTILES	1.2	D	2.449399	5.400000	7	1			18	1252.22	569.19	6
E047	1325-01-342-9086	GUIDANCE CONTROL SECTION, WGU-25A/B	1046	HELIUM, COMPRESSED	2.2		0.255373	0.563000	7					82.3	37.41	1
E058	1325-01-257-9428	GUIDANCE AND CONTROL, WGU-12B/B GBU-24A/B	1046	HELIUM, COMPRESSED	2.2		0.255373	0.563000	7					82.3	37.41	1
E067	1325-01-066-7965	COMPUTER CONTROL GROUP MAU-169A/B	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000		1.4				93.4	42.45	1
E067	1325-01-089-4525	COMPUTER CONTROL GROUP MAU-169A/B GBU-10&12	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000	7	1.4				100	45.45	1
E068	1325-01-079-6248	COMPUTER CONTROL GROUP MAU-169B/B	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000	7	1.4				672	305.45	4
E068	1325-01-092-3195	COMPUTER CONTROL GROUP MAU-169B/B GBU-10/12	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000	7	1.4				100	45.45	1
E069	1325-01-098-2812	COMPUTER CONTROL GROUP MAU-169D/B GBU-10/12	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000	7	1.4				8.82	4.01	1
E078	1325-01-237-8904	GUIDANCE AND CONTROL, WGU-25/B GBU-27/B	1046	HELIUM, COMPRESSED	2.2		0.255373	0.563000	7					82.3	37.41	1
E119	1325-00-107-2233	CONTROL GROUP MAU 157 A/B	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.435902	0.961000	7	1.4				672	305.45	

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DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
E130	1325-01-090-7482	CONTROL SECTION, DCU-199A/B GBU-10/12	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.435902	0.961000	7	1.4				25	11.36	1
E173	1325-00-133-9266	DISPENSER AND BOMB, CBU MK 20 MOD 2	0034	BOMBS	1.1	D	45.359249	100.00000	7	1	13			890.67	404.85	1
E173	1325-00-255-6307	DISPENSER AND BOMB, CBU MK 20 MOD 3	0034	BOMBS	1.1	D	45.359249	100.00000	7	1	13			890.67	404.85	1
E466	1325-00-095-5739	BOMB, GENERAL PURPOSE MK 81	0034	BOMBS	1.1	D	45.359249	100.00000	7	1	13			2978.44	1353.84	6
E480	1325-00-294-4152	BOMB, GENERAL PURPOSE MK 82	0034	BOMBS	1.1	D	87.089760	192.00000	7	1	13			3145.99	1430.00	6
E480	1325-00-540-7629	BOMB, GENERAL PURPOSE MK 82	0034	BOMBS	1.1	D	87.089760	192.00000	7	1	13			3145.99	1430.00	6
E485	1325-00-460-1305	BOMB, GENERAL PURPOSE MK 82	0034	BOMBS	1.1	D	87.089760	192.00000	7	1	13			3095.29	1406.95	6
E485	1325-01-064-0853	BOMB, GENERAL PURPOSE MK 82 MOD 1 TRITONAL	0034	BOMBS	1.1	D	87.089760	192.00000	D	1	13			3228	1467.27	6
E488	1325-00-409-1727	BOMB, GENERAL PURPOSE MK 82	0034	BOMBS	1.1	D	81.646652	180.00000	7	1	13			3145.99	1430.00	6
E510	1325-00-007-9749	BOMB, GENERAL PURPOSE MK 83	0034	BOMBS	1.1	D	170.09718	375.00000	7	1	13			2976	1352.73	3
E850	1325-01-196-4533	DISPENSER AND BOMB, AIRCRAFT, CBU-87/B	0034	BOMBS	1.1	D	58.513432	129.00000	7	1	13			2506	1139.09	2
E890	1325-01-263-7679	DISPENSER AND BOMB, AIRCRAFT, CBU-87B/B	0034	BOMBS	1.1	D	58.513432	129.00000	7	1	13			2370	1077.27	2
EA56	1325-01-439-5677	DISPENSER AND BOMB, AIRCRAFT CBU-99B/B ROCKEYE	0034	BOMBS	1.1	D	45.359249	100.00000	7	1	13			1707	775.91	2
EA56	1325-01-439-6980	DISPENSER AND BOMB, AIRCRAFT CBU-99B/B ROCKEYE	0034	BOMBS	1.1	D	45.359249	100.00000	7	1	13			1505	684.09	2
F114	1325-00-028-5264	BOMB, GENERAL PURPOSE M117	0034	BOMBS	1.1	D	175.08670	386.00000	7	1	13			1633	742.27	2
F114	1325-00-143-6981	BOMB, GENERAL PURPOSE M117	0034	BOMBS	1.1	D	173.27234	382.00000	7	1	13			1633	742.27	2
F114	1325-00-239-5935	BOMB, GENERAL PURPOSE M117	0034	BOMBS	1.1	D	173.27234	382.00000	7	1	13			1626	739.09	2
F114	1325-00-926-1868	BOMB, GENERAL PURPOSE M117	0034	BOMBS	1.1	D	175.08670	386.00000	7	1	13			1626	739.09	2
F128	1325-00-541-0190	BOMB, GENERAL PURPOSE MK 84	0034	BOMBS	1.1	D	428.64490	945.00000	7	1	13			4074.14	1851.88	2

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
F128	1325-00-937-2139	BOMB, GENERAL PURPOSE MK 84	0034	BOMBS	1.1	D	428.64490	945.00000	7	1	13			4074.14	1851.88	2
F140	1325-01-221-5385	BOMB, BLU-109/B	0034	BOMBS	1.1	D	242.67198	535.00000	7	1	13			4370	1986.36	2
F142	1325-01-379-8019	GUIDED BOMB, BLU-109A/B PENETRATOR THERMAL PROT	0034	BOMBS	1.1	D	237.86391	524.40002	7	1	13			4321.05	1964.11	2
F270	1325-00-025-9358	BOMB, GENERAL PURPOSE MK 84	0034	BOMBS	1.1	D	428.64490	945.00000	7	1	13			4077	1853.18	2
F275	1325-01-033-9895	BOMB, GENERAL PURPOSE MK 84 MOD 4 2000 LB SIZE	0034	BOMBS	1.1	D	426.37695	940.00000	7	1	13			4077	1853.18	2
F278	1325-01-074-5695	BOMB, GENERAL PURPOSE MK 84 6	0034	BOMBS	1.1	D	439.98471	970.00000	7	1	13			4021.23	1827.83	2
F370	1325-00-386-2434	ADAPTER, RETAINER FOR ADU 449/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.003502	0.007720	4	1.4				134	60.91	20
F372	1325-00-495-5413	ADAPTER BOOSTER, T45E7	0042	BOOSTERS	1.1	D	0.176901	0.390000	3	1	13			160	72.73	30
F372	1325-00-827-3851	ADAPTER BOOSTER, T45E7	0042	BOOSTERS	1.1	D	0.176901	0.390000	3	1	13			125	56.82	24
F372	1325-00-926-1856	ADAPTER BOOSTER, T45E4	0042	BOOSTERS	1.1	D	0.176901	0.390000	3	1	13			50.71	23.05	8
F372	1325-00-926-3954	ADAPTER BOOSTER, T45E7	0042	BOOSTERS	1.1	D	0.176901	0.390000	3	1	13			50.71	23.05	8
F380	1325-00-517-9047	ADAPTER BOOSTER, BOMB T45E1	0042	BOOSTERS	1.1	D	0.193865	0.427400	3	1	13			50.71	23.05	8
F382	1325-00-344-2370	ADAPTER BOOSTER, T46E3	0042	BOOSTERS	1.1	D	0.399161	0.880000	3	1	13			55.16	25.07	6
F382	1325-00-926-4084	ADAPTER BOOSTER, T46E5	0042	BOOSTERS	1.1	D	0.399161	0.880000	3	1	13			55	25.00	6
F384	1325-00-623-6379	ADAPTER BOOSTER, T59	0042	BOOSTERS	1.1	D	0.005897	0.013000	3	1	13			56.5	25.68	20
F387	1325-00-926-4082	ADAPTER BOOSTER, M147	0042	BOOSTERS	1.1	D	0.399161	0.880000	3	1	13			128.5	58.41	30
F387	1325-00-935-2070	ADAPTER BOOSTER, M147	0042	BOOSTERS	1.1	D	0.399161	0.880000	3	1	13			128.5	58.41	30
F387	1325-00-935-6085	ADAPTER BOOSTER, M147	0042	BOOSTERS	1.1	D	0.399161	0.880000	3	1	13			55	25.00	6
F392	1325-00-491-6562	ADAPTER BOOSTER, BOMB NOSE M148E1	0042	BOOSTERS	1.1	D	0.189828	0.418500	3	1	13			50.71	23.05	8
F470	1325-01-088-4217	SIGNAL COLD SMOKE CXU-3	0197	SIGNALS, SMOKE	1.4	G	0.037648	0.083000	U	1.4		Q		13.23	6.01	50
F470	1325-01-112-8170	CARTRIDGE, CXU-3A/B	0197	SIGNALS, SMOKE	1.4	G	0.003175	0.007000	U	1.4		Q		13.23	6.01	50

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DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
F562	1325-00-038-4638	CARTRIDGE, SIGNAL MK 4	0312	CARTRIDGES, SIGNAL	1.4	G	0.027306	0.060200	U	1.4		J		94.3	42.86	500
F562	1325-00-038-4638	CARTRIDGE, SIGNAL MK 4	0312	CARTRIDGES, SIGNAL	1.4	G	0.027306	0.060200	U	1.4		J		94.3	42.86	500
F562	1325-01-323-9922	CARTRIDGE, SIGNAL PRACTICE BOMB MK 4 MOD 3	0312	CARTRIDGES, SIGNAL	1.4	G	0.020956	0.046200	7	1.4		J		63.93	29.06	500
F562	1325-01-323-9922	CARTRIDGE, SIGNAL PRACTICE BOMB MK 4 MOD 3	0312	CARTRIDGES, SIGNAL	1.4	G	0.020956	0.046200	7	1.4		J		63.93	29.06	500
F718	1325-00-166-2141	FUZE, BOMB M909	0410	FUZES, DETONATING	1.4	D	0.006804	0.015000	4	1.4				37.4	17.00	12
F721	1325-00-115-9784	FUZE, BOMB FMU 54/B	0409	FUZES, DETONATING	1.2	D	0.155628	0.343100	4	1			04	65	29.55	15
F721	1325-00-938-6984	FUZE, BOMB FMU 54/B	0410	FUZES, DETONATING	1.4	D	0.155582	0.343000	4	1.4				65	29.55	15
F738	1325-00-451-6958	FUZE, BOMB FMU 81/B	0410	FUZES, DETONATING	1.4	D	0.000318	0.000700	4	1.4				185	84.09	
F739	1325-00-689-4062	FUZE, BOMB, NOSE, M904E4	0408	FUZES, DETONATING	1.1	D	0.074933	0.165200	4	1	13			50.71	23.05	12
F740	1325-00-009-3729	FUZE, BOMB NOSE MK 339 MOD 1	0410	FUZES, DETONATING	1.4	D	0.000272	0.000600	4	1.4				63.93	29.06	9
F740	1325-01-056-0824	FUZE, MK 339 MODL	0410	FUZES, DETONATING	1.4	D	0.000272	0.000600	4	1.4				3.8	1.73	1
F746	1325-01-012-1990	FUZE, PROXIMITY FMU-113/B	0367	FUZES, DETONATING	1.4	S	0.000907	0.002000	C	1.4				40	18.18	2
F762	1325-01-150-2316	FUZE ASSEMBLY, BOMB, FMU-139/B WITH CLOSURE RING	0409	FUZES, DETONATING	1.2	D	0.125377	0.276408	4	1			04	48.5	22.05	9
F810	1325-01-255-6337	FUZE, BOMB, FMU-139A/B, NOSE AND TAIL, ELECTRONIC TYPE.	0409	FUZES, DETONATING	1.2	D	0.125377	0.276408	U	1			04	48.5	22.05	9
F835	1325-00-143-7153	FUZE, BOMB M904E3	0408	FUZES, DETONATING	1.1	D	0.074389	0.164000	4	1	13			83	37.73	30
F835	1325-00-827-4029	FUZE, BOMB M904E2	0408	FUZES, DETONATING	1.1	D	0.074843	0.165000	4	1	13			76	34.55	30
F835	1325-00-965-0855	FUZE, BOMB M904E2	0408	FUZES, DETONATING	1.1	D	0.074843	0.165000	4	1	13			83	37.73	30
F841	1325-00-613-0484	FUZE, FMU-54 A/B	0409	FUZES, DETONATING	1.2	D	0.163293	0.360000	4	1			04	65.7	29.86	15

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DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
F989	1325-00-585-9057	FUZE, BOMB M905	0409	FUZES, DETONATING	1.2	D	0.006804	0.015000	4	1			04	39	17.73	15
F989	1325-00-756-2184	FUZE, BOMB M905	0409	FUZES, DETONATING	1.2	D	0.006804	0.015000	4	1			04	40	18.18	15
F989	1325-00-827-4020	FUZE, BOMB M905	0409	FUZES, DETONATING	1.2	D	0.006804	0.015000	4	1			04	77	35.00	30
G212	1325-00-585-9290	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	7	1.4				26.45	12.02	240
G212	1325-00-891-5442	DELAY ELEMENT, FUZE M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	7	1.4				27	12.27	240
G213	1325-00-585-9289	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G214	1325-00-585-9288	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G215	1325-00-585-9579	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G215	1325-00-891-5441	DELAY ELEMENT, FUZE M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G216	1325-00-585-9287	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G216	1325-00-891-5439	DELAY ELEMENT, FUZE M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G217	1325-00-585-9580	DELAY ELEMENT, FUZE BOMB M9	0367	FUZES, DETONATING	1.4	S	0.000091	0.000200	4	1.4				27	12.27	240
G376	1325-00-111-8024	FUZE, EXTENSION KIT M1A1	0043	BURSTERS	1.1	D	0.907185	2.000000	3	1	13			193	87.73	10
G376	1325-00-529-7684	EXTENSION, FUZE BOMB M1A1	0043	BURSTERS	1.1	D	0.453593	1.000000	3	1	13			193	87.73	10
G376	1325-00-935-6137	EXTENSION, FUZE BOMB M1A1	0043	BURSTERS	1.1	D	0.907185	2.000000	3	1	13			193	87.73	10
G815	1330-01-020-0504	GRENADE, LAUNCHER SMOKE L8A1	0303	AMMUNITION, SMOKE	1.4	G	0.377298	0.831800	4	1.4				25	11.36	4
G815	1330-01-124-5031	GRENADE, LAUNCHER SMOKE SCREENING RP UK L8A3	0303	AMMUNITION, SMOKE	1.4	G	0.378931	0.835400	4	1.4				25	11.36	4
G826	1330-01-171-8869	GRENADE, LAUNCHER SMOKE IR SCREENING M76	0434	PROJECTILES	1.2	G	0.034940	0.077030	4	1			02	22.7	10.32	4
G839	1330-00-301-1989	CARTRIDGE, GRENADE RIFLE 7.62MM	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.002676	0.005900	7	1.4				16	7.27	200
G839	1330-00-892-4106	CARTRIDGE, GRENADE RIFLE 7.62MM	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.002676	0.005900	7	1.4				39.4	17.91	580

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
G839	1330-01-077-4291	CARTRIDGE, GRENADE 64	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.002676	0.005900	7	1.4				65	29.55	1320
G839	1330-01-082-4110	CARTRIDGE, GRENADE RIFLE 7.62MM	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.002676	0.005900	7	1.4				41	18.64	480
G841	1330-00-152-3709	CARTRIDGE, GRENADE 5.56MM M195	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001646	0.003630	4	1.4				57	25.91	2280
G841	1330-00-764-8435	CARTRIDGE, GRENADE 5.56MM M195	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001647	0.003630	7	1.4				51	23.18	2280
G841	1330-00-926-4011	CARTRIDGE, GRENADE 5.56MM XM195	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001361	0.003000	7	1.4				56.2	25.55	1880
G841	1330-00-935-2030	CARTRIDGE, GRENADE 5.56MM M195	0014	CARTRIDGES, SMALL ARMS, BLANK	1.4	S	0.001361	0.003000	4	1.4				56.25	25.57	1880
G870	1330-00-028-5851	FUZE, HAND GRENADE PRACTICE M10A2 & M205A1	0317	FUZES, IGNITING	1.4	G	0.001361	0.003000	4	1.4				57	25.91	200
G873	1330-00-028-5850	FUZE, HAND GRENADE PRACTICE M10A3 PKG 25/CTN 8	0317	FUZES, IGNITING	1.4	G	0.001361	0.003000	3	1.4				68.8	31.27	200
G873	1330-00-028-5852	FUZE, HAND GRENADE M204A1 PKG 25/CTN 8	0106	FUZES, DETONATING	1.1	B	0.003221	0.007100	3	1	13			57	25.91	200
G873	1330-00-862-3229	FUZE, HAND GRENADE M204A2 PKG A	0106	FUZES, DETONATING	1.1	B	0.002495	0.005500	3	1	13			44	20.00	288
G874	1330-00-293-9516	FUZE, HAND GRENADE M201A1	0317	FUZES, IGNITING	1.4	G	0.001451	0.003200	4	1.4				44	20.00	288
G877	1330-00-182-3570	FUZE, HAND GRENADE M213	0106	FUZES, DETONATING	1.1	B	0.002091	0.004610	3	1	13			90	40.91	360
G877	1330-00-182-3590	FUZE, HAND GRENADE M213	0106	FUZES, DETONATING	1.1	B	0.003320	0.007320	3	1	13			90	40.91	360
G878	1330-00-133-9276	FUZE, HAND GRENADE M228	0257	FUZES, DETONATING	1.4	B	0.002041	0.004500	4	1.4				57	25.91	200
G878	1330-00-168-5502	FUZE, HAND GRENADE M228	0257	FUZES, DETONATING	1.4	B	0.002041	0.004500	4	1.4				90	40.91	360
G880	1330-00-935-6064	GRENADE, HAND FRAGMENTATION M61	0292	GRENADES	1.1	F	0.171782	0.378714	2	1	13		04	53	24.09	30
G881	1330-00-133-8244	GRENADE, HAND FRAGMENTATION M67	0292	GRENADES	1.1	F	0.168736	0.372000	2	1	13		04	51	23.18	30
G881	1330-01-240-9256	GRENADE, HAND FRAGMENTATION M67	0292	GRENADES	1.1	F	0.168736	0.372000	2	1	13		04	52	23.64	30

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
G890	1330-00-028-5832	GRENADE, HAND MK 2 MOD 0	0292	GRENADES	1.1	F	0.029665	0.065400	2	1	13		04	57.6	26.18	25
G890	1330-00-028-5837	GRENADE, HAND FRAGMENTATION MK 2	0292	GRENADES	1.1	F	0.058967	0.130000	2	1	13		04	59.5	27.05	25
G890	1330-00-028-5839	GRENADE, HAND FRAGMENTATION M26	0292	GRENADES	1.1	F	0.167829	0.370000	2	1	13		04	51	23.18	25
G890	1330-00-301-1970	GRENADE, HAND FRAGMENTATION	0292	GRENADES	1.1	F	0.176901	0.390000	2	1	13			58.6	26.64	25
G890	1330-00-926-1857	GRENADE, HAND FRAGMENTATION M26A1	0292	GRENADES	1.1	F	0.176901	0.390000	2	1	13		04	53	24.09	30
G895	1330-00-107-1686	GRENADE, HAND ILLUMINATING	0254	AMMUNITION, ILLUMINATING	1.3	G	0.099926	0.220300	4	1		J		23.9	10.86	28
G895	1330-00-309-5013	GRENADE, HAND ILLUM MK 1	0254	AMMUNITION, ILLUMINATING	1.3	G	0.099926	0.220300	4	1		J		39	17.73	25
G895	1330-00-935-6092	GRENADE, HAND ILLUM MK 1 MOD 2	0254	AMMUNITION, ILLUMINATING	1.3	G	0.099790	0.220000	4	1		J		41.5	18.86	24
G895	1330-00-969-6824	GRENADE, HAND ILLUM MK 1 MOD 1	0254	AMMUNITION, ILLUMINATING	1.3	G	0.099790	0.220000	4	1		J		19.41	8.82	24
G900	1330-00-219-8557	GRENADE, HAND INC TH3 AN-M14	0010	AMMUNITION, INCENDIARY	1.3	G	0.771107	1.700000	3	1		J		47	21.36	16
G911	1330-00-143-6807	GRENADE, HAND OFFENSIVE MK 3A2	0292	GRENADES	1.1	F	0.226796	0.500000	2	1	13			45.1	20.50	20
G911	1330-00-194-2768	GRENADE, HAND OFFENSIVE MK 3A2	0292	GRENADES	1.1	F	0.226796	0.500000	2	1	13			45.1	20.50	20
G922	1330-00-477-6704	GRENADE, HAND RIOT M47	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.002359	0.005200	4	1.4/6.	8	Q		30.5	13.86	20
G924	1330-00-645-6211	GRENADE, HAND RIOT CS-1 M25A2	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.058967	0.130000	4	1.4/6.	8	Q		50	22.73	50
G924	1330-00-682-4645	GRENADE, HAND RIOT CN-1 ABC-M25A1	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.090719	0.200000	4	1.4/6.	8	Q		50	22.73	50
G927	1330-00-219-8578	GRENADE, HAND CN-1 M25A1	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.090719	0.200000	4	1.4/6.	8	Q		60	27.27	50
G930	1330-00-219-8511	GRENADE, HAND SMOKE HC AN-M8	0303	AMMUNITION, SMOKE	1.4	G	0.544311	1.200000	4	1.4		M		42	19.09	16
G930	1330-00-540-7622	GRENADE, HAND SMOKE HC AN-	0303	AMMUNITION, SMOKE	1.4	G	0.544311	1.200000	4	1.4		M		41	18.64	16
G940	1330-00-289-6851	GRENADE, HAND SMOKE GREEN M18	0303	AMMUNITION, SMOKE	1.4	G	0.326587	0.720000	4	1.4		J		42	19.09	16
G940	1330-00-540-9147	GRENADE, HAND SMOKE M18	0303	AMMUNITION, SMOKE	1.4	G	0.326133	0.719000	4	1.4		J		34	15.45	16

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
G945	1330-00-289-6854	GRENADE, HAND SMOKE YELLOW M18	0303	AMMUNITION, SMOKE	1.4	G	0.326587	0.720000	4	1.4		J		42	19.09	16
G945	1330-00-540-9145	GRENADE, HAND SMOKE M18	0303	AMMUNITION, SMOKE	1.4	G	0.327439	0.721880	4	1.4		J		42	19.09	16
G950	1330-00-289-6852	GRENADE, HAND SMOKE RED M18	0303	AMMUNITION, SMOKE	1.4	G	0.326587	0.720000	4	1.4		J		42	19.09	16
G955	1330-00-289-6853	GRENADE, HAND SMOKE VIOLET M18	0303	AMMUNITION, SMOKE	1.4	G	0.326587	0.720000	4	1.4		J		42	19.09	16
G960	1330-00-219-8576	GRENADE, HAND RIOT M7 OR M7A1	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.290299	0.640000	4	1.4/6.	8	Q		33	15.00	16
G960	1330-00-219-8577	GRENADE, HAND RIOT M7 OR M7A1	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.353802	0.780000	4	1.4/6.	8	Q		35	15.91	16
G960	1330-00-529-8542	GRENADE, HAND RIOT CN M7	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.291660	0.643000	4	1.4/6.	8	Q		35	15.91	16
G960	1330-00-871-3697	GRENADE, HAND RIOT CN M7	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.291660	0.643000	4	1.4/6.	8	Q		39.7	18.05	25
G963	1330-00-128-1027	GRENADE, HAND RIOT PELLETIZED	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.340194	0.750000	7	1.4/6.	8	Q		30	13.64	16
G963	1330-00-799-8816	GRENADE, HAND RIOT CS M7A2	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.254012	0.560000	4	1.4/6.	8	Q		30	13.64	16
G963	1330-00-965-0802	GRENADE, HAND RIOT CONTROL CS M7A3	0301	AMMUNITION, TEAR-PRODUCING	1.4	G	0.340194	0.750000	4	1.4/6.	8	Q		34	15.45	16
G978	1330-01-353-3284	GRENADE, LAUNCHER SMOKE XM82	0434	PROJECTILES	1.2	G	0.033203	0.073200	7	1		M	02	19.2	8.73	384
GW04	1325-00-234-0071	INITIATOR, FIREBOMB MK 13 MOD 0 CONSISTS OF	0315	IGNITERS	1.3	G	0.857290	1.890000	4	1				13.5	6.14	12
GW67	1377-01-043-1180	ELECTRIC CARTRIDGE	0048	CHARGES, DEMOLITION	1.1	D	0.090719	0.200000	7	1	13			12	5.45	10
H108	1340-01-149-0918	ROCKET, POD PRACTICE 298MM M28 MLRS	0183	ROCKETS	1.3	C	592.91412	1307.1510	P	1				5094.8	2315.82	6
H110	1340-00-132-0482	ROCKET, INCENDIARY 66MM TPA M74	0248	CONTRIVANCES, WATER-ACTIVATED	1.2	L	2.358681	5.200000	2	1	13		04	132	60.00	4
H110	1340-00-169-5413	ROCKET, INCENDIARY 66MM TPA XM74 W/X	0248	CONTRIVANCES, WATER-ACTIVATED	1.2	L	0.648184	1.429000	2	1	13		04	132	60.00	4
H110	1340-00-397-3072	ROCKET, INCENDIARY 66MM TPA M74E1 4 ROUND	0380	ARTICLES, PYROPHORIC	1.2	L	0.251345	0.554120	2	1	13		12	132	60.00	4

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
H116	1340-01-049-1882	ROCKET, 2.75 INCH WITH WARHEAD M259 WITH MOTOR MK 40 MOD 0	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	2.931568	6.463000	3	1	13		04	138	62.73	4
H163	1340-01-108-8851	ROCKET, 2.75 INCH WITH M151 WARHEAD/M423 FUZE/ MK 66	0181	ROCKETS	1.1	E	4.282444	9.441200	3	1	13			142	64.55	4
H163	1340-01-223-9188	ROCKET, 2.75 WITH WARHEAD M151 WITH FUZE M423 WITH MOTOR MK 66	0181	ROCKETS	1.1	E	4.282444	9.441200	3	1	13			142	64.55	4
H163	1340-01-379-6215	ROCKET, 2.75 INCH WITH WARHEAD HE M151 WITH MOTOR MK 66 MOD 2	0181	ROCKETS	1.1	E	4.282444	9.441170	3	1	13			142	64.55	4
H163	1340-01-379-7246	ROCKET, 2.75 INCH WITH WARHEAD HE M151 WITH MOTOR MK 66 MOD 1	0181	ROCKETS	1.1	E	4.282444	9.441170	3	1	13			142	64.55	4
H165	1340-01-269-1447	ROCKET, 2.75 M261 WARHEAD WITH FUZE/M439 ROCKET/MOTOR MK 66 MD3	0182	ROCKETS	1.2	E	4.175854	9.206200	2	1			09	159	72.27	4
H180	1340-01-026-1730	HYDRA 70 ILLUMINATION ROCKET WITH M257 WARHEAD	0254	AMMUNITION, ILLUMINATING	1.3	G	5.240763	11.553900	4	1			04	144	65.45	6
H181	1340-01-249-7721	ROCKET, 2.75 INCH HYDRA 70 IL WITH WARHEAD M257 WITH MOTOR MK 6	0254	AMMUNITION, ILLUMINATING	1.3	G	5.698891	12.563900	3	1			04	132.5	60.23	3
H403	1340-00-093-1075	IGNITER, ROCKET MOTOR MK 165 MOD 0	0314	IGNITERS	1.2	G	0.045981	0.101370	4	1			04	18	8.18	12
H403	1340-00-093-1077	IGNITER, MK 165 MOD 1 FOR JATO ROCKET	0314	IGNITERS	1.2	G	0.045949	0.101300	4	1			04	38.3	17.41	12
H403	1340-00-585-6584	IGNITER, ROCKET MOTOR MK 165-1	0314	IGNITERS	1.2	G	0.034019	0.075000	4	1			04	38.3	17.41	12
H459	1340-00-182-3063	ROCKET, APERS 2.75 INCH	0186	ROCKET MOTORS	1.3	C	2.751265	6.065500	4	1				127	57.73	4

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
H462	1340-01-309-5799	ROCKET, 2.75 XM255E1 ROCKET M439 WITH ROCKET MOTOR MK 66 MOD	0436	ROCKETS	1.2	C	3.330648	7.342820	4	1			05	138	62.73	4
H464	1340-01-108-8850	ROCKET, 2.75 IN (HYDRA 70) MPSM, WITH WARHEAD, M261, WITH ROCKET MOTOR, MK 66	0182	ROCKETS	1.2	E	4.141300	9.130000	2	1			08	159	72.27	4
H464	1340-01-223-9187	ROCKET, 2.75 M261 WARHEAD WITH FUZE/M439 ROCKET/MOTOR MK 66 MD2	0182	ROCKETS	1.2	E	4.175854	9.206200	2	1			09	138	62.73	4
H519	1340-00-406-7327	ROCKET, SMOKE WP 2.75 INCH M156	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	3.912235	8.625000	3	1	13		04	127	57.73	4
H519	1340-00-912-4548	ROCKET, SMOKE WP 2.75 INCH	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	3.912235	8.625000	E	1	13		04	127	57.73	4
H557	1340-00-007-4889	ROCKET, 66MM HE M72	0181	ROCKETS	1.1	E	0.434995	0.959000	1	1	13			127	57.73	15
H557	1340-00-021-4478	ROCKET, 66MM HE M72A2	0181	ROCKETS	1.1	E	0.434995	0.959000	1	1	13			117.7	53.50	15
H557	1340-00-021-4480	ROCKET, 66MM HE M72A2	0181	ROCKETS	1.1	E	0.363781	0.802000	1	1	13			117.7	53.50	15
H557	1340-00-021-4491	ROCKET, HEAT 66MM M72A2	0181	ROCKETS	1.1	E	0.434995	0.959000	1	1	13			117.7	53.50	15
H557	1340-01-029-8012	ROCKET, HEAT 66MM M72A2	0181	ROCKETS	1.1	E	0.363781	0.802000	1	1	13			118	53.64	15
H557	1340-01-429-4632	ROCKET, HEAT 66MM M72A5 LIGHT ANTI-TANK (LAW)	0180	ROCKETS	1.1	F	0.443160	0.977000	1	1	13			14.6	6.64	1
H567	1340-00-361-2351	ROCKET MOTOR, CLUSTER LAU-10D/A	0186	ROCKET MOTORS	1.3	C	63.502949	140.00000	7	1				140	63.64	1
H708	1340-00-143-6911	ROCKET, PRACTICE 35MM SUB-CAL M73	0182	ROCKETS	1.2	E	0.012247	0.027000	4	1			04	58.8	26.73	6
H708	1340-00-360-5050	ROCKET, PRACTICE 35MM SUB-CAL M73	0182	ROCKETS	1.2	E	0.016511	0.036400	4	1			04	31.7	14.41	3
H842	1340-00-239-5923	WARHEAD, 2.75 INCH HE M151	0286	WARHEADS, ROCKET	1.1	D	1.043263	2.300000	3	1	13			115.2	52.36	12
H842	1340-00-725-8382	WARHEAD, 2.75 INCH HE XM151	0286	WARHEADS, ROCKET	1.1	D	1.088622	2.400000	3	1	13			60	27.27	4

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
H855	1340-00-782-5848	WARHEAD, 2.75 INCH ROCKET WP M156	0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS	1.2	H	1.043263	2.300000	3	1	13	K	04	59	26.82	4
H872	1340-01-226-0717	WARHEAD, 2.75 INCH PRACTICE ROCKET XM274	0197	SIGNALS, SMOKE	1.4	G	0.070125	0.154600	4	1.4		Q		59	26.82	4
H893	1340-01-230-9039	WARHEAD, 2.75 INCH MK 67 MOD 1	0015	AMMUNITION, SMOKE	1.2	G	0.957080	2.110000	3	1	8		04	98	44.55	8
H930	1340-00-789-5540	WARHEAD, 5 INCH ROCKET MK 24 MOD 0	0286	WARHEADS, ROCKET	1.1	D	4.127692	9.100000	3	1	13			597.2	271.45	12
H933	1340-00-449-1814	WARHEAD, 5 INCH ROCKET HE MK 63	0286	WARHEADS, ROCKET	1.1	D	6.824753	15.046000	3	1	13			134	60.91	2
H943	1340-01-197-8990	WARHEAD, 5 INCH 34 2	0434	PROJECTILES	1.2	G	6.937924	15.295500	3	1		J	04	51	23.18	1
H974	1340-01-268-7174	ROCKET, 2.75 WITH WARHEAD M267 WITH FUZE M439 WITH MOTOR MK 66	0015	AMMUNITION, SMOKE	1.2	G	3.279710	7.230520	4	1	8	J	04	162	73.64	4
H975	1340-01-269-1446	ROCKET, 2.75 INCH WITH WARHEAD M274 WITH MK 66 MOD 3 MOTOR	0016	AMMUNITION, SMOKE	1.3	G	3.272276	7.214130	4	1	8	M		142	64.55	4
HA06	1340-01-412-9346	WARHEAD, 2.75 INCH ROCKET FLARE, M278, INFRARED ILLUMINATING	0171	AMMUNITION, ILLUMINATING	1.2	G	2.218930	4.891901	3	1		J		72.8	33.09	4
J106	1340-00-953-8924	ROCKET MOTOR, 2.75 INCH MK 40 MODS 0	0186	ROCKET MOTORS	1.3	C	2.731625	6.022200	7	1				122	55.45	6
J143	1340-01-116-7799	ROCKET MOTOR, MK 22-3	0186	ROCKET MOTORS	1.3	C	20.865255	46.000000	7	1				186	84.55	1
J143	1340-01-118-2838	ROCKET MOTOR, MK 22-4	0186	ROCKET MOTORS	1.3	C	20.885258	46.044102	7	1				200	90.91	1
J147	1340-01-154-1679	ROCKET MOTOR, 2.75 INCH MK 66 MOD 2	0186	ROCKET MOTORS	1.3	C	3.230508	7.122050	4	1				118	53.64	6
J147	1340-01-245-3945	ROCKET MOTOR, 2.75 INCH MK 66 MOD 2	0186	ROCKET MOTORS	1.3	C	3.230508	7.122050	4	1				79	35.91	4
J271	1340-00-007-9750	ROCKET MOTOR, 5 INCH MK 71 MOD 1	0186	ROCKET MOTORS	1.3	C	21.444492	47.277000	7	1				114.5	52.05	1
J329	1340-00-912-4056	FUZE, ROCKET NOSE M414/MK 93	0409	FUZES, DETONATING	1.2	D	0.011090	0.024450	4	1			04	82	37.27	16
J345	1340-00-811-5985	FUZE, ROCKET NOSE MK 188 MODO	0408	FUZES, DETONATING	1.1	D	0.009253	0.020400	4	1	13			64	29.09	18

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
K002	1345-00-028-5105	ACTIVATOR, ANTI-TANK MINE PRACTICE M1	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000145	0.000320	4	1.4				54.5	24.77	180
K002	1345-00-028-5109	ACTIVATOR, ANTI-TANK MINE PRACTICE M1	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001996	0.004400	4	1.4				38.5	17.50	100
K003	1345-00-324-1424	ACTIVATOR, ANTI-TANK MINE M2	0106	FUZES, DETONATING	1.1	B	0.003266	0.007200	4	1	13			54.5	24.77	180
K010	1345-00-690-7338	BURSTER INCENDIARY M4	0043	BURSTERS	1.1	D	0.309532	0.682400	3	1	13			50	22.73	20
K022	1345-01-160-8909	DISPENSER AND MINE, (MOPMS) GROUND XM131 (MOPMS)	0137	MINES	1.1	D	11.981010	26.413601	3	1	13			1100	500.00	6
K030	1345-00-028-5128	PRIMER, IGNITER MINE FUZE M39	0325	IGNITERS	1.4	G	0.000953	0.002100	4	1.4				34	15.45	300
K040	1345-00-028-5127	CHARGE SPOTTING FOR MINE AP PRACTICE M8	0325	IGNITERS	1.4	G	0.027578	0.060800	4	1.4				48	21.82	300
K042	1345-01-233-2030	CANISTER, MINE PRACTICE M88	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.005897	0.013000	4	1.4				85	38.64	2
K045	1345-01-233-2029	M87 CANISTER VOLCANO	0137	MINES	1.1	D	3.446396	7.598000	2	1	13			88	40.00	2
K050	1345-00-028-5078	FUZE, MINE M603 ANTI-TANK	0410	FUZES, DETONATING	1.4	D	0.033112	0.073000	4	1.4				58.9	26.77	144
K050	1345-00-028-5122	FUZE, MINE ANTI-TANK,HE	0410	FUZES, DETONATING	1.4	D	0.033112	0.073000	4	1.4				71.6	32.55	180
K051	1345-00-028-5130	FUZE, MINE M604 ANTI-TANK PRACTICE	0317	FUZES, IGNITING	1.4	G	0.001179	0.002600	4	1.4				77.4	35.18	180
K058	1345-00-717-5770	FUZE, MINE M605 COMBINATION	0410	FUZES, DETONATING	1.4	D	0.001261	0.002780	4	1.4				71	32.27	96
K058	1345-00-965-0694	FUZE, MINE M605 COMBINATION	0410	FUZES, DETONATING	1.4	D	0.001261	0.002780	4	1.4				125	56.82	240
K068	1345-01-228-8477	FUZE, MINE XM624	0367	FUZES, DETONATING	1.4	S	0.001792	0.003950	4	1.4				42	19.09	12
K143	1345-00-166-6378	MINE, APERS M18/T48 WITH AC	0137	MINES	1.1	D	0.712140	1.570000	2	1	13			53	24.09	6
K143	1345-00-710-6946	MINE, AP M18A1	0137	MINES	1.1	D	0.680389	1.500000	2	1	13			53	24.09	6
K143	1345-01-326-9641	MINE, AP M18A1	0137	MINES	1.1	D	0.712140	1.570000	2	1	13			53	24.09	6
K143	1345-01-389-3852	MINE, APERS M18A1 WITH ACCESSORIES (TAGGED C-4)	0137	MINES	1.1	D	0.681718	1.502930	2	1	13			53	24.09	6
K145	1345-00-926-3950	MINE, M18A1	0137	MINES	1.1	D	0.680389	1.500000	2	1	13			40	18.18	6
K151	1345-01-076-3497	MINE, AP HE M74	0137	MINES	1.1	D	0.419573	0.925000	3	1	13			196	89.09	40

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
K152	1345-01-243-5089	MINE, APERS M86 PDM	0138	MINES	1.2	D	0.021895	0.048270	2	1			08	50	22.73	24
K180	1345-00-028-5118	MINE, ANTI-TANK HEAVY M15	0137	MINES	1.1	D	10.341909	22.799999	2	1	13			49	22.27	1
K180	1345-00-173-2715	MINE, ANTI-TANK HE HEAVY M15	0137	MINES	1.1	D	10.341909	22.799999	2	1	13			49	22.27	1
K180	1345-01-142-3441	MINE, ANTI-TANK M15	0137	MINES	1.1	D	10.341909	22.799999	2	1	13			48.8	22.18	1
K181	1345-00-173-2716	MINE, ANTI-TANK HE HEAVY M21	0137	MINES	1.1	D	4.898799	10.800000	2	1	13			90.8	41.27	4
K181	1345-00-729-4263	MINE, ANTI-TANK HEAVY M21 SERIES	0137	MINES	1.1	D	4.898799	10.800000	2	1	13			90.8	41.27	4
K184	1345-01-078-4104	MINE, ANTI-TANK/AV HE M75	0137	MINES	1.1	D	0.605092	1.334000	3	1	13			232	105.45	4
K250	1345-00-348-8646	MINE, ANTI-TANK HEAVY M19	0137	MINES	1.1	D	9.525442	21.000000	2	1	13			71.8	32.64	2
K250	1345-00-849-9768	MINE, ANTI-TANK HEAVY M19	0137	MINES	1.1	D	9.525442	21.000000	2	1	13			124.5	56.59	4
K301	1345-01-341-5160	DISPENSER AND MINE, A/C CBU-78A/B	0034	BOMBS	1.1	D	32.794739	72.300003	7	1	13			1513	687.73	2
K301	1345-01-341-5161	DISPENSER AND MINE, A/C CBU-78A/B	0034	BOMBS	1.1	D	32.794739	72.300003	7	1	13			1707	775.91	2
K515	1365-00-383-3909	CHEMICAL AGENT CN	2017	AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE	6.1		0.000998	0.002200	7	6.1				16	7.27	50
K865	1365-00-219-8512	SMOKE POT, HC M1	0303	AMMUNITION, SMOKE	1.4	G	4.989518	11.000000	4	1.4				54	24.55	3
K866	1365-00-598-5207	SMOKE POT, HC ABC-M5	0303	AMMUNITION, SMOKE	1.4	G	0.024059	0.053040	4	1.4				47	21.36	1
K867	1365-00-598-5220	SMOKE POT, FLOATING HC M4A2	0303	AMMUNITION, SMOKE	1.4	G	12.473794	27.500000	4	1.4		M		48	21.82	1
K867	1365-01-096-1455	SMOKE POT, FLOATING M4A2	0431	ARTICLES, PYROTECHNIC	1.4	G	12.478330	27.510000	4	1.4		M		72	32.73	1
K886	1365-00-025-3280	FUZE, SMOKE POT M209	0317	FUZES, IGNITING	1.4	G	0.000372	0.000820	4	1.4				76	34.55	300
K886	1365-00-159-3310	FUZE, SMOKE POT M209	0317	FUZES, IGNITING	1.4	G	0.000372	0.000820	4	1.4				55	25.00	120
L119	1370-00-490-7362	SIGNAL, DISTRESS AP-25S-5A	0093	FLARES, AERIAL	1.3	G	0.036832	0.081200	4	1		J		60	27.27	100
L136	1370-00-028-5924	CARTRIDGE, PHOTOFLASH M112	0094	FLASH POWDER	1.1	G	0.198674	0.438000	4	1	13			75	34.09	40
L170	1370-00-490-7363	SIGNAL, ILLUMINATION RED	0054	CARTRIDGES, SIGNAL	1.3	G	0.036832	0.081200	4	1		J		60	27.27	200
L171	1370-00-490-7364	SIGNAL, ILLUMINATION GREEN	0054	CARTRIDGES, SIGNAL	1.3	G	0.036832	0.081200	4	1		J		60	27.27	2800

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L172	1370-00-490-7365	SIGNAL, ILLUMINATION WHITE	0054	CARTRIDGES, SIGNAL	1.3	G	0.036832	0.081200	4	1		J		60	27.27	2800
L225	1370-00-529-8552	SIGNAL, ILLUMINATION AIRCRAFT AN-M37A1 DOU	0054	CARTRIDGES, SIGNAL	1.3	G	0.094284	0.207860	4	1		J		52.1	23.68	80
L225	1370-00-540-8506	SIGNAL, ILLUMINATION AIRCRAFT AN-M37A2 DO	0054	CARTRIDGES, SIGNAL	1.3	G	0.094284	0.207860	4	1		J		87.5	39.77	144
L225	1370-00-618-2401	SIGNAL, ILLUMINATION AICRAFT DS RED-RED AN-M37A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.101514	0.223800	4	1		J		57.5	26.14	80
L227	1370-00-529-8555	SIGNAL, ILLUMINATION AIRCRAFT AN-M39A1	0054	CARTRIDGES, SIGNAL	1.3	G	0.122066	0.269110	4	1		J		57.5	26.14	80
L227	1370-00-618-5784	SIGNAL, ILLUMINATION AIRCRAFT DS GREEN GREEN AN-M39A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.128820	0.284000	4	1		J		57.5	26.14	80
L227	1370-00-801-4014	SIGNAL, ILLUMINATION AIRCRAFT AN-M39A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.122066	0.269110	4	1		J		57.5	26.14	80
L228	1370-00-028-5959	SIGNAL, ILLUMINATION AIRCRAFT AN-M40 DOUB	0254	AMMUNITION, ILLUMINATING	1.3	G	0.111130	0.245000	4	1		J		92.9	42.23	144
L228	1370-00-541-9628	SIGNAL, ILLUMINATION AIRCRAFT AN-M40A2	0254	AMMUNITION, ILLUMINATING	1.3	G	0.111130	0.245000	4	1		J		92.9	42.23	144
L228	1370-00-618-2403	SIGNAL, ILLUMINATION AN-M40A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.101514	0.223800	4	1		J		57.5	26.14	80
L229	1370-00-028-5953	SIGNAL, ILLUMINATION AIRCRAFT AN-M41	0254	AMMUNITION, ILLUMINATING	1.3	G	0.126416	0.278700	4	1		J		57.05	25.93	80
L229	1370-00-028-5954	SIGNAL, ILLUMINATION AIRCRAFT AN-M41A1 DOU	0254	AMMUNITION, ILLUMINATING	1.3	G	0.127822	0.281800	4	1		J		50	22.73	80
L229	1370-00-028-5955	SIGNAL, ILLUMINATION AIRCRAFT DOUBLE STAR RED GREEN	0054	CARTRIDGES, SIGNAL	1.3	G	0.127822	0.281800	4	1		J		50	22.73	80
L229	1370-00-540-8500	SIGNAL, ILLUMINATION AIRCRAFT AN-41A2	0254	AMMUNITION, ILLUMINATING	1.3	G	0.127822	0.281800	4	1		J		57.5	26.14	80
L229	1370-00-541-9629	SIGNAL, ILLUMINATION AIRCRAFT AN-M41A1	0254	AMMUNITION, ILLUMINATING	1.3	G	0.127822	0.281800	4	1		J		92.9	42.23	144
L229	1370-00-618-5788	SIGNAL, ILLUMINATION AN-M41A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.065181	0.143700	4	1		J		57.5	26.14	80
L231	1370-00-028-5970	SIGNAL, ILLUMINATION AN-M43A1	0054	CARTRIDGES, SIGNAL	1.3	G	0.059874	0.132000	4	1		J		57.5	26.14	80

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L231	1370-00-540-8507	SIGNAL, ILLUMINATION AIRCRAFT AN-M43A2 SI	0254	AMMUNITION, ILLUMINATING	1.3	G	0.059874	0.132000	4	1		J		92.9	42.23	144
L231	1370-00-618-5790	SIGNAL, ILLUMINATION SINGLE STAR AN-M43A2 RED	0054	CARTRIDGES, SIGNAL	1.3	G	0.059874	0.132000	4	1		J		57.5	26.14	80
L232	1370-00-028-5971	SIGNAL, ILLUMINATION AIRCRAFT AN-M44 SING	0254	AMMUNITION, ILLUMINATING	1.3	G	0.061825	0.136300	4	1		J		74.6	33.91	144
L232	1370-00-028-5974	SIGNAL, ILLUMINATION AIRCRAFT SINGLE STAR YELLOW	0054	CARTRIDGES, SIGNAL	1.3	G	0.056563	0.124700	4	1		J		57.5	26.14	80
L232	1370-00-554-1143	SIGNAL, ILLUMINATION AIRCRAFT AN-M44A1	0254	AMMUNITION, ILLUMINATING	1.3	G	0.056563	0.124700	4	1		J		92.9	42.23	144
L232	1370-00-618-5791	SIGNAL, ILLUMINATION AN-M44A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.056608	0.124800	4	1		J		57.5	26.14	80
L233	1370-00-028-5965	SIGNAL, ILLUMINATION AIRCRAFT SINGLE STAR YELLOW	0054	CARTRIDGES, SIGNAL	1.3	G	0.084051	0.185300	4	1		J		92.9	42.23	144
L233	1370-00-028-5967	SIGNAL, ILLUMINATION SINGLE STAR AN-M45A2 GREE	0254	AMMUNITION, ILLUMINATING	1.3	G	0.062414	0.137600	4	1		J		57.5	26.14	80
L233	1370-00-618-2402	SIGNAL, ILLUMINATION AN-M45A2	0054	CARTRIDGES, SIGNAL	1.3	G	0.064864	0.143000	4	1		J		57.5	26.14	80
L258	1370-00-930-7746	SIGNAL, ILLUMINATION AIRCRAFT RED STAR	0191	SIGNAL DEVICES, HAND	1.4	G	0.003493	0.007700	4	1.4		J		68	30.91	1400
L258	1370-01-216-3243	MK 80 MOD 2, SIGNAL RED STAR HAND FIRED	0191	SIGNAL DEVICES, HAND	1.4	G	0.004250	0.009370	4	1.4		J		89.1	40.50	1400
L273	1370-00-364-4747	SIGNAL, SMOKE AND ILLUMINATION MARINE YELLOW MK 99 MOD 1	0191	SIGNAL DEVICES, HAND	1.4	G	0.119884	0.264300	4	1.4		J		50	22.73	20
L275	1370-00-092-9955	SIGNAL, SMOKE AND ILLUMINATION MARINE MK 13 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096388	0.212500	4	1.4		J		82	37.27	12
L275	1370-00-115-3432	SIGNAL, SMOKE AND ILLUMINATION MK 13 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096162	0.212000	4	1.4		J		101.3	46.05	108
L275	1370-00-309-5027	SIGNAL, SMOKE AND ILLUMINATION MARINE MK 13 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096388	0.212500	4	1.4		J		55	25.00	100
L275	1370-00-309-5028	SIGNAL, SMOKE AND ILLUMINATION MARINE MK 13 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096162	0.212000	4	1.4		J		42.27	19.21	108

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L275	1370-00-567-2817	SIGNAL, SMOKE AND ILLUMINATION MARINE MK 13 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096388	0.212500	4	1.4		J		35.2	16.00	36
L277	1370-00-096-3136	SIGNAL, ILLUMINATION M131	0054	CARTRIDGES, SIGNAL	1.3	G	0.051710	0.114000	4	1		J		15.91	7.23	28
L277	1370-00-096-3137	SIGNAL, ILLUMINATION M131	0054	CARTRIDGES, SIGNAL	1.3	G	0.157850	0.348000	4	1		J		22.73	10.33	25
L278	1370-00-921-6118	SIGNAL, ILLUMINATION GROUND RED	0054	CARTRIDGES, SIGNAL	1.3	G	0.004082	0.009000	4	1				81	36.82	1250
L279	1370-00-921-6119	SIGNAL, ILLUMINATION GROUND WHITE, OBSOLETE	0054	CARTRIDGES, SIGNAL	1.3	G	0.004082	0.009000	4	1				81	36.82	1250
L283	1370-01-030-8330	SIGNAL, SMOKE AND ILLUMINATION MK 124 MOD 0	0191	SIGNAL DEVICES, HAND	1.4	G	0.090719	0.200000	4	1.4		J		110	50.00	108
L283	1370-01-144-3561	SIGNAL, SM ILLUMINATION 124-0	0191	SIGNAL DEVICES, HAND	1.4	G	0.096388	0.212500	4	1.4		J		40	18.18	36
L305	1370-00-182-3408	SIGNAL, ILLUMINATION GROUND GREEN STAR	0054	CARTRIDGES, SIGNAL	1.3	G	0.143335	0.316000	4	1				55	25.00	36
L305	1370-01-342-6872	SIGNAL, GREEN STAR PARACHUTE M195 GROUND HAND	0195	SIGNALS, DISTRESS	1.3	G	0.144242	0.318000	4	1			03	62	28.18	24
L306	1370-00-756-2591	SIGNAL, ILLUMINATION GROUND RED STAR CLUSTER	0054	CARTRIDGES, SIGNAL	1.3	G	0.127401	0.280870	4	1				55	25.00	36
L306	1370-01-343-1966	SIGNAL, RED STAR CLUSTER M158 GROUND ILL	0195	SIGNALS, DISTRESS	1.3	G	0.126099	0.278000	4	1			03	62	28.18	24
L307	1370-00-756-2588	SIGNAL, GROUND ILLUMINATION M159 IN M492 METAL CONTAINER	0195	SIGNALS, DISTRESS	1.3	G	0.145150	0.320000	4	1				55	25.00	36
L307	1370-01-345-4300	SIGNAL, WHITE STAR CLUSTER, GROUND ILLUMINATION M159	0195	SIGNALS, DISTRESS	1.3	G	0.145150	0.320000	4	1			03	62	28.18	24
L310	1370-00-028-5993	SIGNAL, ILLUMINATION GROUND M19A1 GREEN STAR P	0054	CARTRIDGES, SIGNAL	1.3	G	0.100820	0.222270	4	1				92.5	42.05	48
L310	1370-00-028-5994	SIGNAL, ILLUMINATION GROUND M19A1 GREEN STAR P	0054	CARTRIDGES, SIGNAL	1.3	G	0.100820	0.222270	4	1				64.9	29.50	30

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L310	1370-00-965-0864	SIGNAL, ILLUMINATION GROUND GREEN STAR PARA	0054	CARTRIDGES, SIGNAL	1.3	G	0.146510	0.323000	4	1				64.9	29.50	30
L311	1370-00-096-3132	SIGNAL, ILLUMINATION GROUND RED STAR PARA	0054	CARTRIDGES, SIGNAL	1.3	G	0.067767	0.149400	4	1				64.4	29.27	36
L311	1370-00-629-2336	SIGNAL, ILLUMINATION PARA GROUND RED STAR M126A1 IN M492 CTR	0195	SIGNALS, DISTRESS	1.3	G	0.131542	0.290000	4	1				55	25.00	36
L311	1370-01-343-1965	SIGNAL, ILLUMINATION PARA GROUND RED STAR M126A1 IN PA142 CTR	0195	SIGNALS, DISTRESS	1.3	G	0.131542	0.290000	4	1			08	62	28.18	24
L312	1370-00-301-2029	SIGNAL, ILLUMINATION GROUND WHITE STAR PARA	0054	CARTRIDGES, SIGNAL	1.3	G	0.101786	0.224400	4	1		J		66.9	30.41	36
L312	1370-00-753-1859	GROUND ILLUMINATION SIGNAL M127A1 WHITE STAR	0054	CARTRIDGES, SIGNAL	1.3	G	0.127401	0.280870	4	1		J		55	25.00	36
L312	1370-00-892-4815	SIGNAL, ILLUMINATION GROUND WHITE STAR PARA M127A1	0054	CARTRIDGES, SIGNAL	1.3	G	0.128231	0.282700	4	1		J		66.9	30.41	30
L312	1370-01-341-5159	SIGNAL, ILLUMINATION PARA GROUND WHITE STAR M127A1 IN PA142	0195	SIGNALS, DISTRESS	1.3	G	0.127006	0.280000	4	1		J	08	62	28.18	24
L314	1370-00-096-3133	SIGNAL, ILLUMINATION GROUND GREEN STAR CLUSTER T71	0054	CARTRIDGES, SIGNAL	1.3	G	0.757046	1.669000	4	1				55	25.00	36
L314	1370-00-629-2335	SIGNAL, ILLUMINATION GROUND GREEN STAR CLUSTER	0054	CARTRIDGES, SIGNAL	1.3	G	0.124738	0.275000	4	1				55	25.00	36
L314	1370-01-341-6282	SIGNAL, GREEN STAR CLUSTER M125A1 GROUND ILL	0195	SIGNALS, DISTRESS	1.3	G	0.126099	0.278000	4	1			03	62	28.18	24
L323	1370-00-167-3922	SIGNAL, SMOKE GROUND RED PARACHUT	0054	CARTRIDGES, SIGNAL	1.3	G	0.059275	0.130680	4	1				66.9	30.41	24
L323	1370-00-301-1132	SIGNAL, SMOKE GROUND RED PARA	0054	CARTRIDGES, SIGNAL	1.3	G	0.099459	0.219270	4	1				55	25.00	36

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L323	1370-01-342-3842	SIGNAL, SMOKE GROUND RED PARACHUTE M129A1	0487	SIGNALS, SMOKE	1.3	G	0.101151	0.223000	4	1			03	62	28.18	24
L324	1370-00-301-1131	SIGNAL, SMOKE GROUND GREEN PARA	0054	CARTRIDGES, SIGNAL	1.3	G	0.099459	0.219270	4	1				55	25.00	36
L324	1370-01-341-6283	GREEN SMOKE PARACHUTE M128A1	0487	SIGNALS, SMOKE	1.3	G	0.101151	0.223000	4	1			03	62	28.18	24
L341	1370-00-926-1930	SIGNAL, SMOKE GROUND GREEN XM167	0054	CARTRIDGES, SIGNAL	1.3	G	0.018597	0.041000	4	1				56	25.45	240
L342	1370-00-926-1933	SIGNAL, SMOKE GROUND RED XM168	0054	CARTRIDGES, SIGNAL	1.3	G	0.020593	0.045400	4	1				56	25.45	240
L367	1370-01-085-2601	SIMULATOR, CARTRIDGE ATWESS M22	0050	CARTRIDGES, FLASH	1.3	G	0.014742	0.032500	4	1				38	17.27	150
L367	1370-01-229-8420	SIMULATOR, LNCHI	0050	CARTRIDGES, FLASH	1.3	G	0.014175	0.031250	4	1				55	25.00	240
L378	1370-00-028-5252	DETONATION SIMULATOR M80	0333	FIREWORKS	1.1	G	0.003357	0.007400	4	1	13	J		68	30.91	2500
L411	1370-00-143-6953	FLARE, AIRCRAFT PARA LUU-2B AND LUU 2A/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000		1		J		58	26.36	
L411	1370-00-292-8411	FLARE, LUU-2A/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000	4	1		J		58	26.36	2
L411	1370-00-351-0222	FLARE, LUU 2/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000	4	1		J		58	26.36	2
L429	1370-01-038-5111	FLARE, MJU-7/B	0093	FLARES, AERIAL	1.3	G	0.284765	0.627800	4	1		J		63	28.64	60
L440	1370-01-083-0323	FLARE, PARACHUTE A/C LUU-2B/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000	4	1		J		59	26.82	2
L440	1370-01-331-3485	FLARE, LUU-2B/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000	4	1		J		118	53.64	4
L442	1370-01-083-0320	FLARE, KIT LUU-2B/B	0093	FLARES, AERIAL	1.3	G	9.979035	22.000000	4	1		J		72	32.73	2
L443	1370-01-033-3395	FLARE, AIRCRAFT PARA LUU-4/B	0093	FLARES, AERIAL	1.3	G	5.579188	12.300000	4	1		J		22	10.00	2
L477	1370-01-208-0686	FLARE, INFRARED TRACKING MARK 33 MOD 0 ARMY	0093	FLARES, AERIAL	1.3	G	0.131995	0.291000	4	1		J		41.2	18.73	50
L495	1370-00-028-5943	FLARE, SURFACE TRIP M49 PKD 1/TUBE 1	0092	FLARES, SURFACE	1.3	G	0.331123	0.730000	4	1		J		44.9	20.41	16
L495	1370-00-028-5944	FLARE, SURFACE TRIP PARACHUTE M49	0092	FLARES, SURFACE	1.3	G	0.490365	1.081070	4	1		J		51	23.18	16
L495	1370-00-554-1147	FLARE, SURFACE M49 TRIP	0092	FLARES, SURFACE	1.3	G	0.317515	0.700000	4	1		J		42.4	19.27	16
L525	1370-00-725-5826	SIGNAL, SMOKE AND ILLUMINATION AIRCRAFT	0254	AMMUNITION, ILLUMINATING	1.3	G	1.849750	4.078000	4	1		J		102	46.36	4

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L525	1370-00-725-7849	SIGNAL, SMOKE AND ILLUMINATION MK 6 MOD 3	0254	AMMUNITION, ILLUMINATING	1.3	G	1.849750	4.078000	4	1		J		100	45.45	4
L554	1370-00-690-1458	MARKER, LOCATION MARINE MK 25 MOD 3	0195	SIGNALS, DISTRESS	1.3	G	0.907185	2.000000	4	1		J		1030	468.18	224
L554	1370-00-804-3561	MARKER, LOCATION MARINE MK 25 MOD 2 WITH 2 SEA WATE	0195	SIGNALS, DISTRESS	1.3	G	0.820277	1.808400	4	1		J		31.4	14.27	8
L554	1370-00-862-9525	MARKER, LOCATION MARINE MK 25 MOD 0	0195	SIGNALS, DISTRESS	1.3	G	0.082191	0.181200	4	1		J		31.4	14.27	8
L561	1370-00-038-4921	MARKER, LOCATION MARINE MK 1 MOD 3	0054	CARTRIDGES, SIGNAL	1.3	G	0.029484	0.065000	4	1		J		100	45.45	20
L592	1370-00-198-2566	SIMULATOR, TOW BLAST WOODEN SHIPPING CONTAINER	0333	FIREWORKS	1.1	G	0.003003	0.006620		1	13			1200	545.45	1200
L594	1370-00-752-8126	SIMULATOR, PROJECTILE	0334	FIREWORKS	1.2	G	0.063957	0.141000	4	1		J	04	67.4	30.64	100
L595	1370-01-047-3479	SIMULATOR, PROJECTILE AIR BURST LIQUID M9	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	0.028440	0.062700	4	1.4				155	70.45	20
L596	1370-00-028-5112	SIMULATOR, FLASH ARTILLERY M110	0050	CARTRIDGES, FLASH	1.3	G	0.080145	0.176690	4	1		J		54	24.55	30
L596	1370-00-028-5113	SIMULATOR, FLASH ARTILLERY M110 AND SQU	0050	CARTRIDGES, FLASH	1.3	G	0.085049	0.187500	4	1		J		40	18.18	24
L596	1370-00-028-5114	SIMULATOR, FLASH ARTILLERY M110	0050	CARTRIDGES, FLASH	1.3	G	0.080145	0.176690	4	1		J		55	25.00	30
L596	1370-00-935-1969	SIMULATOR, M110	0050	CARTRIDGES, FLASH	1.3	G	0.085049	0.187500	4	1		J		54	24.55	30
L598	1370-00-007-5562	SIMULATOR, BOOBY TRAP M117	0335	FIREWORKS	1.3	G	0.002540	0.005600	4	1		J		47	21.36	150
L598	1370-00-028-5256	SIMULATOR, BOOBY TRAP M117 FLASH	0335	FIREWORKS	1.3	G	0.003493	0.007700	4	1		J		47	21.36	150
L598	1370-00-283-9443	SIMULATOR, EXPLOSIVE BOOBY TRAP M117 WITH ACCES	0335	FIREWORKS	1.3	G	0.002540	0.005600	4	1		J		31.7	14.41	50
L599	1370-00-008-7788	SIMULATOR, BOOBY TRAP ILLUMINATION M118 W	0335	FIREWORKS	1.3	G	0.005126	0.011300	4	1		J		47	21.36	150
L599	1370-00-028-5257	SIMULATOR, BOOBY TRAP M118	0335	FIREWORKS	1.3	G	0.006078	0.013400	4	1		J		47	21.36	150

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
L599	1370-00-283-9444	SIMULATOR, EXPLOSIVE BOOBY TRAP M118 WITH ACCES	0335	FIREWORKS	1.3	G	0.005126	0.011300	4	1		J		31.7	14.41	50
L600	1370-00-028-5255	SIMULATOR, BOOBY TRAP WHISTLING M119	0335	FIREWORKS	1.3	G	0.048081	0.106000	4	1		J		49	22.27	150
L601	1370-00-752-8124	SIMULATOR, HAND GRENADE M116A1	0335	FIREWORKS	1.3	G	0.036877	0.081300	4	1		J		65	29.55	18
L602	1370-01-034-1397	SIMULATOR, FLASH A M21	0335	FIREWORKS	1.3	G	0.042524	0.093750	4	1				87	39.55	162
L602	1370-01-128-0418	SIMULATOR, 50MM FLASH ARTILLERY M21	0431	ARTICLES, PYROTECHNIC	1.4	G	0.059874	0.132000	4	1.4				50	22.73	162
L621	1370-00-009-9596	STARTER, FIRE M2 NP-3	0315	IGNITERS	1.3	G	0.004354	0.009600	4	1		R		4.3	1.95	100
L621	1370-00-219-8566	STARTER, FIRE M2 NP-3	0315	IGNITERS	1.3	G	0.004354	0.009600	4	1		F		35	15.91	500
L720	1370-01-352-5723	SIMULATOR, TARGET KILL XM26	0430	ARTICLES, PYROTECHNIC	1.3	G	0.511022	1.126610	7	1				116	52.73	60
LA01	1370-01-413-6877	FLARE, DECOY, MJU-32/B	0093	FLARES, AERIAL	1.3	G	0.151119	0.333160	C	1		J		19.8	9.00	21
LA02	1370-01-413-6885	FLARE, DECOY, MJU-38/B	0093	FLARES, AERIAL	1.3	G	0.151119	0.333160	C	1		J		19.8	9.00	21
LW53	1370-00-249-9410	FLARE, DECOY MK 50 MOD 0	0093	FLARES, AERIAL	1.3	G	0.095254	0.210000	4	1		J		64	29.09	25
LY12	1370-00-445-8926	CARTRIDGE ASSEMBLY FLARE ALA-17	0093	FLARES, AERIAL	1.3	G	1.270059	2.800000	4	1		J		56.7	25.77	8
LY12	1370-01-018-9288	CARTRIDGE ASSEMBLY FLARE ALA-17A	0093	FLARES, AERIAL	1.3	G	1.270059	2.800000	4	1		J		57.97	26.35	8
LY74	1370-00-617-2451	CHAFF PACKAGE EXPL RR 141AL	0173	RELEASE DEVICES, EXPLOSIVE	1.4	S	0.000181	0.000400	4	1.4				33.1	15.05	
M012	1377-00-793-9926	CARTRIDGE, IMPULSE MK 19 MOD 0	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.001406	0.003100	7	1.4				10	4.55	96
M023	1375-00-724-7040	CHARGE, DEMOLITION BLOCK M112 COMP C-4	0048	CHARGES, DEMOLITION	1.1	D	0.566991	1.250000	2	1	13			43	19.55	30
M023	1375-01-389-3854	CHARGE, DEMOLITION M112, CONTAINING TAGGED C-4	0048	CHARGES, DEMOLITION	1.1	D	0.566991	1.250000	2	1	13			43	19.55	30
M024	1375-00-728-5941	CHARGE, DEMOLITION BLOCK M118 PETN	0048	CHARGES, DEMOLITION	1.1	D	0.907185	2.000000	2	1	13			52.5	23.86	20
M028	1375-00-926-1948	DEMOLITION KIT, BANGALORE TORPEDO M1A2	0034	BOMBS	1.1	D	48.625114	107.20000	2	1	13			109	49.55	1
M030	1375-00-580-1377	CHARGE, DEMOLITION BLOCK TNT 1/4 LB	0048	CHARGES, DEMOLITION	1.1	D	0.113398	0.250000	2	1	13			79	35.91	24

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M030	1375-00-926-9394	CHARGE, DEMOLITION BLOCK 1/4 LB	0048	CHARGES, DEMOLITION	1.1	D	0.113398	0.250000	2	1	13			84	38.18	24
M031	1375-00-028-5140	CHARGE, DEMOLITION 5LB TNT	0048	CHARGES, DEMOLITION	1.1	D	0.226796	0.500000	2	1	13			71.5	32.50	100
M031	1375-00-926-9316	CHARGE, DEMOLITION BLOCK TNT 1/2 LB	0048	CHARGES, DEMOLITION	1.1	D	0.226796	0.500000	2	1	13			71.5	32.50	96
M032	1375-00-028-5142	CHARGE, DEMOLITION BLOCK TNT 1 LB	0048	CHARGES, DEMOLITION	1.1	D	0.453593	1.000000	2	1	13			71.5	32.50	48
M032	1375-00-028-5144	CHARGE, DEMOLITION BLOCK TNT 1LB	0048	CHARGES, DEMOLITION	1.1	D	0.453593	1.000000	2	1	13			81	36.82	56
M032	1375-00-529-7701	CHARGE, DEMOLITION W	0048	CHARGES, DEMOLITION	1.1	D	0.453593	1.000000	2	1	13			71.5	32.50	50
M032	1375-00-935-6139	CHARGE, DEMOLITION 1 LB, TNT	0048	CHARGES, DEMOLITION	1.1	D	0.453593	1.000000	2	1	13			71.5	32.50	48
M038	1375-00-028-5148	CHARGE, DEMOLITION BLOCK M5 COMP C-4	0048	CHARGES, DEMOLITION	1.1	D	1.133981	2.500000	2	1	13			80	36.36	24
M039	1375-00-028-5145	CHARGE, DEMOLITION 40 LB CRATERING	0048	CHARGES, DEMOLITION	1.1	D	18.338745	40.430000	2	1	13			52	23.64	1
M039	1375-00-028-5146	CHARGE, DEMOLITION CRATERING 40 LB	0048	CHARGES, DEMOLITION	1.1	D	18.338745	40.430000	2	1	13			50.8	23.09	1
M039	1375-01-250-6029	CHARGE, DEMOLITION 40 LB CRATERING	0048	CHARGES, DEMOLITION	1.1	D	18.338745	40.430000	2	1	13			59	26.82	1
M060	1375-00-926-4108	CHARGE, DEMOLITION ROLL XM186	0048	CHARGES, DEMOLITION	1.1	D	11.339812	25.000000	2	1	13			115	52.27	3
M073	1377-00-191-5141	CARTRIDGE, IMPULSE CCU 11/B BDU-38B	0275	CARTRIDGES, POWER DEVICE	1.3	C	0.078290	0.172600	7	1				11.4	5.18	1
M078	1375-00-180-9474	CAP, BLASTING ELECTRIC M4	0030	DETONATORS, ELECTRIC	1.1	B	0.001270	0.002800	3	1	13			100	45.45	30
M078	1375-00-825-1394	CAP, BLASTING ELECTRIC M4, FOR MI	0030	DETONATORS, ELECTRIC	1.1	B	0.001270	0.002800	3	1	13			62	28.18	30
M130	1375-00-028-5224	CAP, BLASTING ELECTRIC J2	0030	DETONATORS, ELECTRIC	1.1	B	0.000907	0.002000	3	1	13			76.5	34.77	500
M130	1375-00-028-5225	CAP, BLASTING	0030	DETONATORS, ELECTRIC	1.1	B	0.001324	0.002920	3	1	13			76	34.55	500
M130	1375-00-283-9442	CAP, BLASTING ELECTRIC M6 PKG	0030	DETONATORS, ELECTRIC	1.1	B	0.001270	0.002800	3	1	13			30.3	13.77	96
M130	1375-00-756-1865	CAP, BLASTING ELECTRIC M6	0030	DETONATORS, ELECTRIC	1.1	B	0.000862	0.001900	3	1	13			114	51.82	900
M130	1375-00-889-2003	CAP, BLASTING ELECTRIC M6	0030	DETONATORS, ELECTRIC	1.1	B	0.001329	0.002930	3	1	13			114	51.82	900
M130	1375-01-192-9174	CAP, BLASTING M6	0030	DETONATORS, ELECTRIC	1.1	B	0.001297	0.002860	3	1	13			43	19.55	180

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M130	1375-01-316-1229	M6 ELECTRIC BLASTING CAP IN IMPROVED PACKAGING	0255	DETONATORS, ELECTRIC	1.4	B	0.001329	0.002930	3	1.4				23.3	10.59	40
M131	1375-00-028-5226	CAP, BLASTING NONELECTRIC J-1	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.000907	0.002000	3	1	13			82.1	37.32	5000
M131	1375-00-028-5227	CAP, BLASTING SPECIAL NON-	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001216	0.002680	3	1	13			66	30.00	10000
M131	1375-00-028-5228	CAP, BLASTING NON ELECTRIC J-1	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.000907	0.002000	3	1	13			8	3.64	500
M131	1375-00-283-9440	CAP, BLASTING NON ELECTRIC M7	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001216	0.002680	3	1	13			28.5	12.95	768
M131	1375-00-370-3519	CAP, BLASTING M7 NON ELECTRIC	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001216	0.002680	3	1	13			95	43.18	5000
M131	1375-00-756-1864	CAP, BLASTING NON ELECTRIC M7	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001225	0.002700	3	1	13			25	11.36	50
M131	1375-01-057-6439	CAP, BLASTING M7 NON ELECTRIC	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001225	0.002700	3	1	13			12	5.45	36
M131	1375-01-193-2976	CAP, BLASTING M7	0029	DETONATORS, NON-ELECTRIC	1.1	B	0.001216	0.002680	3	1	13			60	27.27	480
M131	1375-01-315-1335	M7 NON-ELECTRIC BLASTING CAP IN IMPROVED PACKAGI	0267	DETONATORS, NON-ELECTRIC	1.4	B	0.001252	0.002760	3	1.4				23.2	10.55	40
M158	1377-00-863-9387	CARTRIDGE, ENGINE STARTER MXU 4A/A	0276	CARTRIDGES, POWER DEVICE	1.4	C	3.628740	8.000000	7	1.4				1449	658.64	
M162	1377-00-364-4680	CARTRIDGE, IMPULSE FOR CH-46A HEL	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000136	0.000300	7	1.4				1	0.45	1
M162	1377-00-999-7463	CARTRIDGE, IMPULSE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000136	0.000300	7	1.4				12	5.45	12
M174	1377-00-512-2886	CARTRIDGE, IMPULSE FOR ACTUATED T	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.011567	0.025500	7	1.4				20.3	9.23	77
M174	1385-00-605-0253	CARTRIDGE, IMPULSE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.011022	0.024300	7	1.4				8	3.64	12
M174	1385-00-896-3694	CARTRIDGE, IMPULSE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.011022	0.024300	7	1.4				48.9	22.23	168
M174	1385-01-145-1946	CARTRIDGE, ELECTRIC .50 CAL BLANK MK 209-0 77/M2A1 CONT	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.010433	0.023000	7	1.4				20	9.09	77
M187	1377-01-057-0685	CARTRIDGE, IMPULSE ARD446-1	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.012519	0.027600	7	1.4				2	0.91	4
M189	1377-01-057-0686	CARTRIDGE, IMPULSE ARD863-1	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.004082	0.009000	7	1.4				2	0.91	8

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M190	1377-00-103-3434	CARTRIDGE, IMPULSE MK 2 MOD 1	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006305	0.013900	7	1.4				120	54.55	800
M190	1377-00-512-2864	CARTRIDGE, IMPULSE MK 2 MOD 1 PKD 65/HERME	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006491	0.014310	7	1.4				140	63.64	1300
M190	1377-00-554-0081	CARTRIDGE, IMPULSE MK 2 MOD 1	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006486	0.014300	7	1.4				2.5	1.14	10
M241	1375-00-028-5171	DESTRUCTOR EXPLOSIVE M10	0042	BOOSTERS	1.1	D	0.129864	0.286300	4	1	13			77.9	35.41	50
M327	1375-00-038-5280	BASE COUPLING, FIRING DEVIC	0044	PRIMERS, CAP TYPE	1.4	S	0.000318	0.000700	4	1.4				75	34.09	500
M327	1375-00-699-5236	COUPLING BASE FIRING DEVICE WITH PRIMER	0044	PRIMERS, CAP TYPE	1.4	S	0.000045	0.000100	4	1.4				81	36.82	400
M397	1377-00-845-5242	CARTRIDGE, SET, SEAT EJECTION FOR F-4 AIRCRAFT	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.1161197	0.256	7	1.4				0.5	0.23	1
M420	1375-00-028-5235	CHARGE, DEMOLITION SHAPED M2	0048	CHARGES, DEMOLITION	1.1	D	5.216314	11.500000	2	1	13			66	30.00	3
M420	1375-00-028-5237	CHARGE, DEMOLITION SHAPED M2A3 COMP B	0048	CHARGES, DEMOLITION	1.1	D	5.216314	11.500000	2	1	13			66	30.00	3
M420	1375-00-529-7698	CHARGE, DEMOLITION M2A3 SHAPED,15 LB	0048	CHARGES, DEMOLITION	1.1	D	6.803887	15.000000	2	1	13			65	29.55	3
M420	1375-00-926-3939	CHARGE, DEMOLITION SHAPED M2A4	0048	CHARGES, DEMOLITION	1.1	D	5.216314	11.500000	2	1	13			65	29.55	4
M420	1375-00-935-1924	CHARGE, DEMOLITION M2A3 PENTOLITE	0048	CHARGES, DEMOLITION	1.1	D	5.216314	11.500000	2	1	13			65	29.55	3
M420	1375-01-023-7994	CHARGE, DEMOLITION M2A4	0048	CHARGES, DEMOLITION	1.1	D	6.803887	15.000000	2	1	13			80	36.36	4
M421	1375-00-028-5241	CHARGE, DEMOLITION SHAPED M3 COMP B	0048	CHARGES, DEMOLITION	1.1	D	13.607775	30.000000	2	1	13			65	29.55	1
M421	1375-00-088-6691	CHARGE, DEMOLITION SHAPED M3A1	0048	CHARGES, DEMOLITION	1.1	D	13.607775	30.000000	2	1	13			76.5	34.77	1
M448	1375-00-729-4375	DETONATOR, PERCUSSION M2A1	0257	FUZES, DETONATING	1.4	B	0.001769	0.003900	3	1.4				62	28.18	200
M450	1375-00-729-4378	DETONATOR, PERCUSSION M1A2	0257	FUZES, DETONATING	1.4	B	0.001565	0.003450	3	1.4				62	28.18	200
M455	1375-00-025-3281	CORD, DETONATING PETN	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			57	25.91	1600
M455	1375-00-028-5161	CORD, DETONATING	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			111	50.45	5000

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M455	1375-00-028-5163	CORD, DETONATING TYPE 1 CL.B PRIMACORD PE	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			105	47.73	4000
M455	1375-00-028-5164	CORD, DETONATING TYPE 1 CL.B PRIMACORD P	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			16	7.27	4000
M455	1375-00-028-5166	CORD, DETONATING TYPE 1 CL.B PRIMACORD PE	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			110	50.00	4000
M455	1375-00-529-7702	CORD, DETONATING TYPE 1 CL.B FUZE,PRIMACO	0065	CORD, DETONATING	1.1	D	0.001633	0.003600	3	1	13			105	47.73	4000
M456	1375-00-028-5168	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			105	47.73	4000
M456	1375-00-167-3814	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			68	30.91	2000
M456	1375-00-180-9356	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			77	35.00	3000
M456	1375-00-180-9410	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			117	53.18	4000
M456	1375-00-204-0851	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			77	35.00	3000
M456	1375-00-205-0137	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			77	35.00	2000
M456	1375-00-310-2677	CORD, DETONATING TYPE 1 CL.B REINFORCED P	0289	CORD, DETONATING	1.4	D	0.003901	0.008600	3	1.4				105	47.73	4000
M456	1375-00-782-5527	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			191	86.82	8000
M456	1375-00-965-0800	CORD, DETONATING FLEXIBLE	0065	CORD, DETONATING	1.1	D	0.003175	0.007000	3	1	13			152	69.09	6000
M500	1377-00-060-0885	CUTTER, CARTRIDGE ACTUATED M21	0070	CUTTERS, CABLE, EXPLOSIVE	1.4	S	0.001814	0.004000	7	1.4				50	22.73	80
M507	1377-00-883-8997	CARTRIDGE, IMPULSE FOR DROGUE GUN PARACHUTE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006350	0.014000	7	1.4				0.2	0.09	2
M507	1377-00-960-0453	CARTRIDGE, IMPULSE MK 85 MOD 0	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.002495	0.005500	7	1.4				3	1.36	24
M509	1377-00-731-9264	CARTRIDGE, IMPULSE MK 9 MOD 0 F-4/F-104	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.008482	0.018700	7	1.4				11.6	5.27	80
M587	1375-00-055-1153	DYNAMITE, COMMERCIAL 4	0081	EXPLOSIVE, BLASTING, TYPE A	1.1	D	0.453593	1.000000	2	1	13			59	26.82	50

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M591	1375-00-724-9613	DYNAMITE, MILITARY M1	0082	EXPLOSIVE, BLASTING, TYPE B	1.1	D	0.176901	0.390000	2	1	13			70	31.82	100
M598	1375-00-219-8562	CRYPTO EQUIP DEST M1A1, TH	0010	AMMUNITION, INCENDIARY	1.3	G	12.700590	28.000000	4	1		J		55	25.00	1
M598	1375-00-383-3908	CRYPTO EQUIP DEST TH M1A2	0010	AMMUNITION, INCENDIARY	1.3	G	12.700590	28.000000	4	1		J		55	25.00	1
M598	1375-00-834-8884	CRYPTO EQUIP DEST INCEND TH4 M1A2	0010	AMMUNITION, INCENDIARY	1.3	G	12.700590	28.000000	4	1		J		55	25.00	1
M605	1375-00-293-8132	DOCUMENT DESTROYER EMERGENCY, INC	0010	AMMUNITION, INCENDIARY	1.3	G	2.000343	4.410000	7	1		J		130	59.09	1
M605	1375-00-529-8004	EMERGENCY INCENDIARY DOCUMENT DESTROYER M3	0010	AMMUNITION, INCENDIARY	1.3	G	2.000343	4.410000	7	1		J		117	53.18	1
M605	1375-00-542-0090	EMERGENCY INCENDIARY DOCUMENT DESTROYER M3	0010	AMMUNITION, INCENDIARY	1.3	G	1.927768	4.250000	7	1		J		117	53.18	1
M609	1375-00-460-7989	CRYPTO EQUIP DEST M2A1	0010	AMMUNITION, INCENDIARY	1.3	G	3.884067	8.562900	4	1		J		37	16.82	2
M610	1375-00-219-8564	FILE DESTROYER, INCENDIARY, M4	0010	AMMUNITION, INCENDIARY	1.3	G	1.360777	3.000000	4	1		J		76	34.55	1
M612	1375-00-460-7998	DESTRUCTOR INCEND	0010	AMMUNITION, INCENDIARY	1.3	G	0.738494	1.628100	4	1		J		21.5	9.77	8
M620	1375-00-028-5196	FIRING DEVICE, DEMOLITION M1, WHITE	0367	FUZES, DETONATING	1.4	S	0.000272	0.000600	4	1.4				19.7	8.95	120
M620	1375-00-813-7157	FIRING DEVICE, DEMOLITION	0367	FUZES, DETONATING	1.4	S	0.000272	0.000600	4	1.4				56	25.45	450
M621	1375-00-028-5197	FIRING DEVICE, DEMOLITION	0367	FUZES, DETONATING	1.4	S	0.000027	0.000060	4	1.4				19.7	8.95	120
M622	1375-00-028-5198	FIRING DEVICE, DEMOLITION M1, YELLOW	0367	FUZES, DETONATING	1.4	S	0.000027	0.000060	4	1.4				19.7	8.95	120
M622	1375-00-828-4881	FIRING DEVICE, DEMOLITION	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000027	0.000060	4	1.4				48	21.82	300
M626	1375-00-028-5178	FIRING DEVICE, DEMOLITION M1	0367	FUZES, DETONATING	1.4	S	0.000272	0.000600	4	1.4				78	35.45	150
M626	1375-00-028-5179	FIRING DEVICE, DEMOLITION	0367	FUZES, DETONATING	1.4	S	0.000272	0.000600	4	1.4				80	36.36	250

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M626	1375-00-028-5180	FIRING DEVICE, DEMOLITION M1A1	0367	FUZES, DETONATING	1.4	S	0.000045	0.000100	4	1.4				78	35.45	250
M627	1375-00-007-5563	FIRING DEVICE, DEMOLITION PRESSURE RELEASE	0367	FUZES, DETONATING	1.4	S	0.000027	0.000060	4	1.4				35	15.91	48
M627	1375-00-028-5190	FIRING DEVICE, DEMOLITION M5	0367	FUZES, DETONATING	1.4	S	0.000045	0.000100	4	1.4				51.9	23.59	200
M627	1375-00-028-5192	FIRING DEVICE, DEMOLITION M5	0367	FUZES, DETONATING	1.4	S	0.000045	0.000100	4	1.4				55	25.00	200
M629	1375-00-028-5188	FIRING DEVICE, M3	0367	FUZES, DETONATING	1.4	S	0.000027	0.000060	4	1.4				49.9	22.68	150
M629	1375-00-028-5189	FIRING DEVICE, M3	0368	FUZES, IGNITING	1.4	S	0.000045	0.000100	4	1.4				44	20.00	200
M630	1375-00-028-5181	FIRING DEVICE, DEMOLITION M1	0367	FUZES, DETONATING	1.4	S	0.000027	0.000060	4	1.4				35	15.91	150
M630	1375-00-262-1661	FIRING DEVICE, DEMOLITION M1	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000027	0.000060	4	1.4				33.6	15.27	60
M630	1375-00-580-1392	FIRING DEVICE, M1	0368	FUZES, IGNITING	1.4	S	0.000045	0.000100	4	1.4				65	29.55	200
M631	1375-00-028-5187	FIRING DEVICE, M1	0368	FUZES, IGNITING	1.4	S	0.000045	0.000100	4	1.4				2	0.91	4
M670	1375-00-028-5149	FUSE, BLASTING TIME	0105	FUSE, SAFETY	1.4	S	0.001211	0.002670	4	1.4				162	73.64	6000
M670	1375-00-028-5151	FUSE, BLASTING TIME	0105	FUSE, SAFETY	1.4	S	0.003175	0.007000	4	1.4				93.6	42.55	4000
M670	1375-00-028-5152	FUSE, BLASTING TIME	0105	FUSE, SAFETY	1.4	S	0.001211	0.002670	4	1.4				98.9	44.95	4000
M670	1375-00-028-5246	FUSE, BLASTING TIME	0105	FUSE, SAFETY	1.4	S	0.001211	0.002670	4	1.4				107	48.64	4000
M670	1375-00-262-1674	FUSE, BLASTING TIME M700,PKG 50-	0105	FUSE, SAFETY	1.4	S	0.001225	0.002700	4	1.4				26.7	12.14	400
M680	1375-00-219-8583	IGNITION CYLINDER, FLAME THROWER	0044	PRIMERS, CAP TYPE	1.4	S	0.003348	0.007380	4	1.4				54	24.55	100
M756	1375-00-028-5245	CHARGE, DEMOLITION CHAIN M37 C-4	0048	CHARGES, DEMOLITION	1.1	D	9.071850	20.000000	2	1	13			57	25.91	2
M757	1375-00-926-3985	CHARGE, ASSEMBLY DEMOLITION M183	0048	CHARGES, DEMOLITION	1.1	D	9.071850	20.000000	2	1	13			57	25.91	2
M766	1375-00-028-5199	IGNITER, TIME BLASTING FUSE M2	0131	LIGHTERS, FUSE	1.4	S	0.001361	0.003000	4	1.4				28.6	13.00	150
M766	1375-00-028-5200	IGNITER, TIME BLASTING FUSE M2	0131	LIGHTERS, FUSE	1.4	S	0.000045	0.000100	4	1.4				50	22.73	250
M766	1375-00-283-9452	IGNITER, TIME FUSE BLASTING M60 T2,WEATH	0131	LIGHTERS, FUSE	1.4	S	0.000027	0.000060	4	1.4				27.3	12.41	60
M766	1375-00-529-9032	IGNITER, TIME BLASTING, FUSE M2	0131	LIGHTERS, FUSE	1.4	S	0.000259	0.000570	4	1.4				46.9	21.32	250
M766	1375-00-691-1671	IGNITER, TIME BLASTING FUSE M60	0131	LIGHTERS, FUSE	1.4	S	0.000045	0.000100	4	1.4				63	28.64	300

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
M814	1375-00-078-0450	EMERGENCY INCENDIARY DOCUMENT DESTROYER M4	0010	AMMUNITION, INCENDIARY	1.3	G	3.828321	8.440000	4	1		J		275	125.00	1
M828	1377-00-677-6281	SQUIB, ELECTRIC C-130	0454	IGNITERS	1.4	S	0.000318	0.000700	7	1.4				0.2	0.09	1
M842	1377-00-219-8567	SQUIB, ELECTRIC M1	0454	IGNITERS	1.4	S	0.000136	0.000300	7	1.4				24	10.91	1000
M913	1375-00-008-8895	CHARGE, DEMOLITION HE LINEAR M58A1	0048	CHARGES, DEMOLITION	1.1	D	733.59515	1617.3000	2	1	13			3000	1363.64	1
M913	1375-01-113-8983	CHARGE, DEMOLITION M58A2	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M913	1375-01-133-4189	CHARGE, DEMOLITION M58A3	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M913	1375-01-190-0065	CHARGE, DEMOLITION M58A2	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M913	1375-01-237-5933	CHARGE, DEMOLITION M58A4	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M913	1375-01-287-0719	CHARGE, DEMOLITION M58A4	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M913	1375-01-326-9642	CHARGE, DEMOLITION, LINEAR, HE, COMP C4, M58A4	0048	CHARGES, DEMOLITION	1.1	D	793.78687	1750.0000	2	1	13			3000	1363.64	1
M948	1377-00-261-5371	CARTRIDGE, IMPULSE FOR 15	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000590	0.001300	7	1.4				0.3	0.14	1
M995	1375-01-068-3985	CHARGE, DEMOLITION 86 0	0048	CHARGES, DEMOLITION	1.1	D	0.024322	0.053620	2	1	13			33.7	15.32	5
M996	1375-01-069-6671	CHARGE, DEMOLITION 87 0	0048	CHARGES, DEMOLITION	1.1	D	0.081080	0.178750	2	1	13			24.2	11.00	5
M997	1375-01-068-3984	CHARGE, DEMOLITION 88 0	0410	FUZES, DETONATING	1.4	D	0.000998	0.002200	2	1.4				18.7	8.50	5
M998	1375-01-069-6672	CHARGE, DEMOLITION 89 0	0048	CHARGES, DEMOLITION	1.1	D	0.225036	0.496120	2	1	13			33.2	15.09	5
MC60	1377-00-299-1516	INITIATOR 4 SEC DELAY F-15	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.002449	0.005400	7	1.4				0.3	0.14	1
MC81	1377-01-057-5430	CARTRIDGE, IMPULSE CCU-1/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006305	0.013900	7	1.4				2	0.91	4
MC81	1377-01-089-2859	CARTRIDGE, IMPULSE CCU-1/B F111	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006305	0.013900	7	1.4				3	1.36	12
MD15	1377-00-410-8271	CORD, DETONATING FCDC LIN INTERCO	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.005058	0.011150	7	1.4				0.5	0.23	1
MD16	1377-00-409-1099	CORD, DETONATING FCDC LIN INTERCO	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.003570	0.007870	7	1.4				0.2	0.09	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
MD18	1377-00-409-1098	CORD, DETONATING SMDC LIN INTERCO	0367	FUZES, DETONATING	1.4	S	0.000286	0.000630	7	1.4				0.2	0.09	1
MD33	1377-00-409-1096	WINDOW CUTTING ASSEMBLY	0367	FUZES, DETONATING	1.4	S	0.002531	0.005580	7	1.4				5	2.27	1
MD34	1377-00-409-1095	CORD, DETONATING FCDC CUTTING ASSEMBLY	0367	FUZES, DETONATING	1.4	S	0.002168	0.004780	7	1.4				5	2.27	1
MD36	1377-00-409-1097	WINDOW CUTTING ASSEMBLY	0367	FUZES, DETONATING	1.4	S	0.002399	0.005290	7	1.4				5	2.27	1
MD65	1377-01-063-3162	CARTRIDGE, IMPULSE CCU45/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.008800	0.019400	7	1.4				39	17.73	8
MD65	1377-01-063-3166	CARTRIDGE, IMPULSE CCU-45/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.008482	0.018700	7	1.4				11.62	5.28	8
MD65	1377-01-063-3167	CARTRIDGE, IMPULSE CCU-45/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.008482	0.018700	7	1.4				2.16	0.98	1
MD66	1377-01-063-3161	CARTRIDGE, IMPULSE CCU-44/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.004899	0.010800	7	1.4				9.7	4.41	60
MD66	1377-01-063-3165	CARTRIDGE, IMPULSE CCU-44/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.004899	0.010800	7	1.4				2.16	0.98	10
MD73	1377-01-049-6365	CARTRIDGE, IMPULSE M796 FOR M206 FLARE	0454	IGNITERS	1.4	S	0.000363	0.000800	7	1.4				60	27.27	12
MD87	1377-01-052-8206	CARTRIDGE THRUSTER HARNESS RELEASE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000181	0.000400	7	1.4				0.1	0.05	1
MD88	1377-01-052-8207	CARTRIDGE, MORTAR ACES 2	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006350	0.014000	7	1.4				0.1	0.05	1
MD89	1377-01-052-8208	CARTRIDGE ASSEMBLY, DROGUE	0014	CARTRIDGES FOR WEAPONS, BLANK	1.4	S	0.000862	0.001900	7	1.4				0.1	0.05	1
MD90	1377-01-052-8209	CUTTER, REEFING LINE ASSEMBLY ACES-II	0070	CUTTERS, CABLE, EXPLOSIVE	1.4	S	0.001089	0.002400	7	1.4				0.1	0.05	1
MD91	1377-01-052-8210	CUTTER, LOCKING CORD SURVIVAL KIT	0070	CUTTERS, CABLE, EXPLOSIVE	1.4	S	0.001089	0.002400	7	1.4				0.1	0.05	1
MD92	1377-01-053-0537	GENERATOR, GAS ACES-2	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.005035	0.011100	7	1.4				0.1	0.05	1
MD99	1377-01-053-0587	ROCKET MOTOR, TRAJECTORY DIVERGENCE	0186	ROCKET MOTORS	1.3	C	0.181573	0.400300	7	1				0.8	0.36	1
ME03	1377-01-053-7877	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000318	0.000700	7	1.4				2	0.91	1
ME04	1377-01-053-7878	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000726	0.001600	7	1.4				2	0.91	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
ME06	1377-01-053-7880	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.001089	0.002400	7	1.4				2.1	0.95	1
ME07	1377-01-053-7881	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.001361	0.003000	7	1.4				3	1.36	1
ME09	1377-01-053-7883	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000862	0.001900	7	1.4				2	0.91	1
ME16	1377-01-053-7884	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000862	0.001900	7	1.4				2	0.91	1
ME23	1377-01-090-7557	CARTRIDGE, DELAY ASSEMBLY 4SEC PARA KC-135 C-130	0012	CARTRIDGES, SMALL ARMS	1.4	S	0.000680	0.001500	7	1.4				0.3	0.14	1
ME65	1377-01-056-4527	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000454	0.001000	7	1.4				1	0.45	1
ME69	1377-01-056-4520	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000499	0.001100	7	1.4				1	0.45	1
ME75	1377-01-056-4525	DETONATION TRANSFER ASSEMBLY /DTA/ F-16	0367	FUZES, DETONATING	1.4	S	0.000544	0.001200	7	1.4				1	0.45	1
MF29	1377-01-082-4175	CARTRIDGE, IMPULSE CCU63/B	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.000136	0.000300	7	1.4				22	10.00	60
MF60	1377-01-103-9120	CARTRIDGE, IMPULSE CCU-41B	0432	ARTICLES, PYROTECHNIC	1.4	S	0.000249	0.000550	7	1.4				22	10.00	480
MG11	1377-01-037-8650	CARTRIDGE, IMPULSE BBU-36/B	0454	IGNITERS	1.4	S	0.000998	0.002200	7	1.4				80.8	36.73	
MH58	1377-01-169-7797	CATAPULT, ROCKET CKU-5A/A	0186	ROCKET MOTORS	1.3	C	2.494759	5.500000	7	1				20.5	9.32	1
ML03	1375-01-040-1526	FIRING DEVICE, DEMOLITION MULTI-PURPOSE M142	0044	PRIMERS, CAP TYPE	1.4	S	0.000023	0.000051	4	1.4				43	19.55	56
ML04	1375-01-037-5428	CUTTER/EXROD/POWDER ACTUATED	0048	CHARGES, DEMOLITION	1.1	D	0.129501	0.285500	4	1	13			10.4	4.73	6
ML05	1375-01-037-5429	CUTTER POWDER ACTUATED	0048	CHARGES, DEMOLITION	1.1	D	0.005733	0.012640	4	1	13			20	9.09	2
ML07	1375-01-043-1276	CAP, BLASTING SHIELDED ELECTRIC 24 FT WIRE L	0030	DETONATORS, ELECTRIC	1.1	B	0.000962	0.002120	3	1	13			9	4.09	10

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
ML09	1375-01-079-3899	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.039009	0.086000	2	1	13			19	8.64	18
ML09	1375-01-083-2820	CHARGE, DEMOLITION 20 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.005189	0.011440	2	1	13			12.8	5.82	6
ML09	1375-01-299-5872	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.001297	0.002860	2	1	13			12.8	5.82	6
ML10	1375-01-079-3900	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.023587	0.052000	2	1	13			21.3	9.68	18
ML10	1375-01-082-9919	CHARGE, DEMOLITION 30 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.007784	0.017160	2	1	13			13.6	6.18	6
ML10	1375-01-299-5873	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.001941	0.004280	2	1	13			13.6	6.18	6
ML11	1375-01-079-3901	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.010433	0.023000	2	1	13			21	9.55	18
ML11	1375-01-082-9920	CHARGE, DEMOLITION 40 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.010378	0.022880	2	1	13			14	6.36	6
ML11	1375-01-300-3911	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.011467	0.025280	2	1	13			14	6.36	6
ML12	1375-01-079-3902	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.015422	0.034000	2	1	13			19.7	8.95	18
ML12	1375-01-083-2822	CHARGE, DEMOLITION 60 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.015567	0.034320	2	1	13			14.6	6.64	6
ML12	1375-01-299-5874	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.017200	0.037920	2	1	13			15.5	7.05	6
ML13	1375-01-079-3903	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.054431	0.120000	2	1	13			28.4	12.91	18
ML13	1375-01-082-9921	CHARGE, DEMOLITION 75 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.019459	0.042900	2	1	13			15.5	7.05	6
ML13	1375-01-300-5201	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.017200	0.037920	2	1	13			15.5	7.05	6
ML14	1375-01-079-3904	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.032432	0.071500	2	1	13			33	15.00	15
ML14	1375-01-082-9922	CHARGE, DEMOLITION 125 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.032432	0.071500	2	1	13			15.4	7.00	5
ML14	1375-01-299-4158	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.037467	0.082600	2	1	13			15.4	7.00	6
ML15	1375-01-079-3905	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.014606	0.032200	2	1	13			46.3	21.05	15
ML15	1375-01-082-9923	CHARGE, DEMOLITION 225 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.058377	0.128700	2	1	13			20	9.09	5
ML15	1375-01-299-4153	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.067436	0.148670	2	1	13			20	9.09	3

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
ML16	1375-01-079-3906	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.077564	0.171000	2	1	13			54.2	24.64	15
ML16	1375-01-082-9924	CHARGE, DEMOLITION 300 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.077836	0.171600	2	1	13			21.2	9.64	5
ML16	1375-01-299-4154	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.019441	0.042860	2	1	13			21.2	9.64	3
ML17	1375-01-079-3907	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.350173	0.772000	2	1	13			48.2	21.91	9
ML17	1375-01-083-6325	CHARGE, DEMOLITION 400 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.350173	0.772000	2	1	13			18.1	8.23	3
ML17	1375-01-299-4156	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.025918	0.057140	2	1	13			18.1	8.23	3
ML18	1375-01-079-3908	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.032432	0.071500	2	1	13			56.2	25.55	9
ML18	1375-01-082-9925	CHARGE, DEMOLITION 500 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.129727	0.286000	2	1	13			19.8	9.00	3
ML18	1375-01-299-4157	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.032400	0.071430	2	1	13			19.8	9.00	3
ML19	1375-01-079-3909	CHARGE, DEMOLITION SHAPED	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.481715	1.062000	2	1	13			64.1	29.14	9
ML19	1375-01-083-2821	CHARGE, DEMOLITION 600 GRAIN	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.103782	0.228800	2	1	13			20	9.09	3
ML19	1375-01-299-4155	FLEXIBLE LINEAR SHAPED CHARGE	0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1	D	0.179831	0.396460	2	1	13			1.2	0.55	3
ML47	1375-01-415-1232	CAP, BLASTING NON ELECTRIC 30 FT SHOCK TUBE XM11	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001315	0.002900	4	1.4				105	47.73	3
ML94	1375-01-257-3982	TILE, ARMOR M4	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	0.272155	0.600000	3	1.4				90	40.91	9
ML95	1375-01-257-3983	TILE, ARMOR M5	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	2.902992	6.400000	3	1.4				90	40.91	1
ML95	1375-01-410-7416	TILE, ARMOR M5A1	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	2.689804	5.930000	3	1.4				90	40.91	1
ML98	1375-01-257-3984	TILE, ARMOR M6	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	1.315418	2.900000	3	1.4				76	34.55	2
ML98	1375-01-410-7415	TILE, ARMOR M6A1	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	1.058685	2.334000	3	1.4				76	34.55	2
ML99	1375-01-257-3985	TILE, ARMOR M7	0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4	D	0.952544	2.100000	3	1.4				102	46.36	4
MN60	1375-01-353-1038	IGNITERS, ELECTRIC MATCH XM79 IN WOOD BOX	0315	IGNITERS	1.3	G	0.005715	0.012600	7	1		R		31	14.09	350

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
MS47	1377-00-410-8266	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000844	0.001860	7	1.4				15	6.82	1
MS48	1377-00-410-8289	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000708	0.001560	7	1.4				15	6.82	1
MS49	1377-00-410-8222	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001220	0.002690	7	1.4				20	9.09	1
MS50	1377-00-409-1100	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001751	0.003860	7	1.4				17	7.73	1
MS51	1377-01-035-4124	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001302	0.002870	7	1.4				20	9.09	1
MS52	1377-01-037-9237	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000662	0.001460	7	1.4				15	6.82	1
MS53	1377-01-037-4090	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000662	0.001460	7	1.4				12	5.45	1
MS54	1377-01-037-4096	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000472	0.001040	7	1.4				12	5.45	1
MS55	1377-01-037-4095	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000739	0.001630	7	1.4				15	6.82	1
MS56	1377-01-037-4094	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000839	0.001850	7	1.4				15	6.82	1
MS57	1377-01-037-4093	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001030	0.002270	7	1.4				20	9.09	1
MS58	1377-01-032-3286	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000472	0.001040	7	1.4				2	0.91	1
MS59	1377-01-032-3283	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000798	0.001760	7	1.4				15	6.82	1
MS60	1377-01-032-3279	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000730	0.001610	7	1.4				15	6.82	1
MS61	1377-01-032-3280	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000699	0.001540	7	1.4				12	5.45	1
MS62	1377-01-100-1718	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000331	0.000730	7	1.4				2.5	1.14	1
MS76	1377-01-032-1047	CORD, DETONATING LSCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.002282	0.005030	7	1.4				10	4.55	1
MS77	1377-01-032-1048	CORD, DETONATING LSCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.002821	0.006220	7	1.4				12	5.45	1
MS78	1377-01-032-1049	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.002300	0.005070	7	1.4				30	13.64	1
MS79	1377-01-032-1050	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.002490	0.005490	7	1.4				30	13.64	1
MS80	1377-01-170-5244	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000921	0.002030	7	1.4				20	9.09	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
MS81	1377-01-170-5245	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000240	0.000530	7	1.4				3	1.36	1
MS82	1377-01-170-5246	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000721	0.001590	7	1.4				15	6.82	1
MS83	1377-01-170-5261	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001179	0.002600	7	1.4				15	6.82	1
MS84	1377-01-170-5262	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000830	0.001830	7	1.4				17	7.73	1
MS85	1377-01-170-5263	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000372	0.000820	7	1.4				9	4.09	1
MS86	1377-01-170-5264	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000240	0.000530	7	1.4				3	1.36	1
MS87	1377-01-170-5265	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000349	0.000770	7	1.4				10	4.55	1
MS88	1377-01-186-9898	CORD, DETONATING SMDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000231	0.000510	7	1.4				3	1.36	1
MS89	1377-01-170-5260	CORD, DETONATING FCDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000259	0.000570	7	1.4				2	0.91	1
MS90	1377-01-186-9899	CORD, DETONATING FCDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				2	0.91	1
MS91	1377-01-186-9900	CORD, DETONATING FCDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000499	0.001100	7	1.4				3	1.36	1
MS92	1377-01-186-9901	CORD, DETONATING FCDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				3	1.36	1
MS93	1377-01-186-9902	CORD, DETONATING FCDC	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				3	1.36	1
MS94	1377-01-184-6112	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001960	0.004320	7	1.4				50	22.73	1
MS95	1377-01-184-6113	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001851	0.004080	7	1.4				50	22.73	1
MS96	1377-01-185-8908	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001728	0.003810	7	1.4				50	22.73	1
MS97	1377-01-187-4477	CORD, DETONATING WCA	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.001792	0.003950	7	1.4				50	22.73	1
MT06	1377-01-269-6496	INITIATOR, JAU-59/A	0323	CARTRIDGES, POWER DEVICE	1.4	S	0.000068	0.000150	7	1.4				3	1.36	1
MT86	1377-00-138-2871	CARTRIDGE REMOVER CANOPY F-15	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.013698	0.030200	7	1.4				0.6	0.27	1
MU96	1377-00-125-0074	ACTUATOR, KIT DEPLOYMENT F-4	0173	RELEASE DEVICES, EXPLOSIVE	1.4	S	0.000227	0.000500	7	1.4				0.1	0.05	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
MW80	1377-00-328-8080	ARMING FIRING MECHANISM FOR AH1J HELICOPTER	0367	FUZES, DETONATING	1.4	S	0.000086	0.000190	7	1.4				25	11.36	10
MW84	1375-01-014-0587	CHARGE, KIT DEMOLITION TUBULAR MK 75 MOD 0 SWIMMERS WEA	0048	CHARGES, DEMOLITION	1.1	D	22.679625	50.000000	2	1	13			83	37.73	1
MY77	1377-00-183-5952	CARTRIDGE, IMPULSE CCU-1/B F-111	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.006305	0.013900	7	1.4				43.5	19.77	1
N248	1390-00-889-2104	FUZE, MECHANICAL TIME M565 WITHOUT BOOSTER	0257	FUZES, DETONATING	1.4	B	0.000839	0.001850	4	1.4				40	18.18	15
N248	1390-00-993-5691	FUZE, MECHANICAL TIME M565 WITHOUT BOOSTER	0257	FUZES, DETONATING	1.4	B	0.000839	0.001850	4	1.4				54.6	24.82	16
N278	1390-00-889-2044	FUZE, MTSQ M564 WITH BOOSTER WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.028691	0.063253	4	1	13			56	25.45	16
N278	1390-01-032-6130	FUZE, MTSQ M564	0408	FUZES, DETONATING	1.1	D	0.503089	1.109120	4	1	13			56	25.45	16
N285	1390-00-805-0692	FUZE, MTSQ M577 WITHOUT BOOSTER	0410	FUZES, DETONATING	1.4	D	0.000726	0.001600	4	1.4				44.4	20.18	16
N285	1390-01-158-8194	FUZE, MTSQ M577A1 WITHOUT BOOSTER	0410	FUZES, DETONATING	1.4	D	0.000426	0.000940	4	1.4				44.4	20.18	16
N285	1390-01-247-4013	FUZE, MTSQ M577A1 WITHOUT BOOSTER	0410	FUZES, DETONATING	1.4	D	0.000426	0.000940	4	1.4				44.4	20.18	16
N286	1390-00-169-5864	FUZE, MTSQ M582 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.023991	0.052890	4	1	13			46	20.91	16
N286	1390-01-158-8193	FUZE, MTSQ M582A1	0409	FUZES, DETONATING	1.2	D	0.023691	0.052230	4	1			04	46	20.91	16
N286	1390-01-159-8044	FUZE, MTSQ M582	0409	FUZES, DETONATING	1.2	D	0.023991	0.052890	4	1			04	45	20.45	16
N286	1390-01-247-4012	FUZE, MTSQ M582A1	0409	FUZES, DETONATING	1.2	D	0.023691	0.052230	4	1			04	46	20.91	16
N308	1390-00-143-7008	FUZE, POINT DETONATING M524A6 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.036101	0.079590	4	1	13			42.1	19.14	16
N308	1390-00-892-4804	FUZE, POINT DETONATING M524A2	0409	FUZES, DETONATING	1.2	D	0.036101	0.079590	4	1			04	66	30.00	30
N308	1390-00-957-5719	FUZE, POINT DETONATING M524A1 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.036101	0.079590	4	1	13			42.1	19.14	16

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
N308	1390-00-965-0570	FUZE, POINT DETONATING M524E7 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.036179	0.079760	4	1	13			42.1	19.14	16
N308	1390-00-965-0790	FUZE, POINT DETONATING M524	0409	FUZES, DETONATING	1.2	D	0.036179	0.079760	4	1			04	66	30.00	30
N308	1390-00-965-0851	FUZE, POINT DETONATING M524	0409	FUZES, DETONATING	1.2	D	0.036179	0.079760	4	1			04	66	30.00	30
N319	1390-00-028-4901	FUZE, POINT DETONATING M51A5 WITH BOOSTER	0106	FUZES, DETONATING	1.1	B	0.022593	0.049810	4	1	13			56.2	25.55	16
N319	1390-00-028-4905	FUZE, POINT DETONATING M51A5 WITH BOOSTER	0107	FUZES, DETONATING	1.2	B	0.022593	0.049810	4	1	13		04	97.5	44.32	30
N319	1390-00-892-4153	FUZE, POINT DETONATING M51A5 0.05 S	0107	FUZES, DETONATING	1.2	B	0.022593	0.049810	4	1	13		04	56.2	25.55	16
N331	1390-00-324-1419	FUZE, POINT DETONATING M78 WITH BOOSTER /WOODEN BOX/	0107	FUZES, DETONATING	1.2	B	0.025855	0.057000	4	1	13		04	77	35.00	20
N331	1390-00-676-7837	FUZE, POINT DETONATING CONCRETE PIE	0107	FUZES, DETONATING	1.2	B	0.025855	0.057000	4	1	13		04	55.2	25.09	16
N331	1390-00-926-3932	FUZE, POINT DETONATING M78 WITH BOOSTER /WIREBOUND BOX/	0106	FUZES, DETONATING	1.1	B	0.025855	0.057000	4	1	13			67	30.45	16
N331	1390-00-935-9145	FUZE, POINT DETONATING M78 WITH BOOSTER /WOODEN BOX/	0107	FUZES, DETONATING	1.2	B	0.025855	0.057000	4	1	13		04	77	35.00	20
N335	1390-00-187-5392	FUZE, POINT DETONATING M557 WITH BOOSTER	0106	FUZES, DETONATING	1.1	B	0.013608	0.030000	4	1	13			55.8	25.36	16
N335	1390-00-889-2014	FUZE, POINT DETONATING M557 WITH BOOSTER	0107	FUZES, DETONATING	1.2	B	0.013608	0.030000	4	1	13		04	71.6	32.55	25
N335	1390-00-889-2105	FUZE, POINT DETONATING M557 WITH BOOSTER	0107	FUZES, DETONATING	1.2	B	0.013608	0.030000	4	1	13		04	97.5	44.32	30

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
N335	1390-00-889-2117	FUZE, POINT DETONATING M557 WITH BOOSTER	0106	FUZES, DETONATING	1.1	B	0.013608	0.030000	4	1	13			55.8	25.36	16
N335	1390-00-892-4302	FUZE, POINT DETONATING M557 WITH BOOSTER WIREBOUND BOX	0106	FUZES, DETONATING	1.1	B	0.013608	0.030000	4	1	13			55.8	25.36	16
N335	1390-01-080-4171	FUZE, POINT DETONATING M557	0257	FUZES, DETONATING	1.4	B	0.022997	0.050700	4	1.4				55.8	25.36	16
N340	1390-00-574-7705	FUZE, POINT DETONATING M739	0408	FUZES, DETONATING	1.1	D	0.021772	0.048000	4	1	13			46	20.91	16
N340	1390-01-080-9447	FUZE, POINT DETONATING M739	0409	FUZES, DETONATING	1.2	D	0.021772	0.048000	4	1			04	46	20.91	16
N340	1390-01-132-7481	FUZE, POINT DETONATING M739A1	0409	FUZES, DETONATING	1.2	D	0.021772	0.048000	4	1			04	46	20.91	16
N402	1390-00-764-9124	FUZE, PROXIMITY M532 WIREBOUND BOX FOR 81MM	0106	FUZES, DETONATING	1.1	B	0.008981	0.019800	4	1	13			42.3	19.23	16
N462	1390-00-935-9246	FUZE, PROXIMITY M514 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.025129	0.055400	4	1	13			63	28.64	16
N463	1390-00-182-3132	FUZE, PROXIMITY M728 WIREBOUND BOX	0408	FUZES, DETONATING	1.1	D	0.025342	0.055870	4	1	13			47.2	21.45	16
N464	1390-01-020-0096	FUZE, PROXIMITY M732	0409	FUZES, DETONATING	1.2	D	0.005851	0.012900	4	1			04	50	22.73	16
N464	1390-01-137-5444	FUZE, PROXIMITY M732	0409	FUZES, DETONATING	1.2	D	0.005897	0.013000	4	1			04	50	22.73	16
N464	1390-01-202-1710	FUZE, PROXIMITY M732	0409	FUZES, DETONATING	1.2	D	0.005897	0.013000	4	1			04	50	22.73	16
N523	1390-00-892-4202	PRIMER, PERCUSSION M82	0376	PRIMERS, TUBULAR	1.4	S	0.001397	0.003080	4	1.4				62	28.18	500
N523	1390-01-329-0777	PRIMER, PERCUSSION M82	0376	PRIMERS, TUBULAR	1.4	S	0.001397	0.003080	4	1.4				62	28.18	500
N525	1390-00-009-5571	PRIMER, PERCUSSION MK 2A4 PKG 1	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				37	16.82	500
N525	1390-00-028-4918	PRIMER, PERCUSSION MK 2A4	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				82	37.27	1440
N525	1390-00-028-4919	PRIMER, PERCUSSION MK 2A4	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				117	53.18	2400
N525	1390-00-883-6532	PRIMER, PERCUSSION MK 2A	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				37	16.82	500
N525	1390-00-926-3924	PRIMER, PERCUSSION MK 2A	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				37	16.82	500

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
N525	1390-00-935-9234	PRIMER, PERCUSSION MK 2A	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				37	16.82	500
N525	1390-01-008-4605	PRIMER, PERCUSSION MK 2A4 FOR 155M	0320	PRIMERS, TUBULAR	1.4	G	0.001270	0.002800	4	1.4				32.7	14.86	400
PB66	1410-01-149-3507	GUIDED MISSILE, TACTICAL AIM-7M	0181	ROCKETS	1.1	E	76.883926	169.50000	C	1	13		07	2078	944.55	3
PB91	1410-01-007-2507	MISSILE, BASIC TOW BGM-71A-1	0181	ROCKETS	1.1	E	6.158425	13.577000	2	1	13			89	40.45	1
PA66	1410-01-092-7367	GUIDED MISSILE, BGM-71A-1	0181	ROCKETS	1.1	E	5.202706	11.470000	2	1	13			83	37.73	1
PB92	1410-01-106-8514	MISSILE, IMPROVED TOW (ITOW) BGM-71C	0181	ROCKETS	1.1	E	5.826396	12.845000	2	1	13			89	40.45	1
PB92	1410-01-216-3172	GUIDED MISSILE, TOW BGM71CI	0181	ROCKETS	1.1	E	5.647227	12.450000	2	1	13			90	40.91	1
PB93	1410-01-135-2092	MISSILE, TOW 2 BGM-71D	0181	ROCKETS	1.1	E	6.885080	15.179000	2	1	13			93	42.27	1
PB94	1410-01-139-1512	MISSILE, BASIC TOW BGM-71A-2	0181	ROCKETS	1.1	E	6.158425	13.577000	2	1	13			89	40.45	1
PB97	1410-01-181-6032	MISSILE, BASIC TOW BGM-71A-3	0181	ROCKETS	1.1	E	6.158425	13.577000	1	1	13			89	40.45	1
PB99	1410-01-180-6791	MISSILE, BASIC TOW PRACTICE BTM-71A-3	0280	ROCKET MOTORS	1.1	C	3.772982	8.318000	2	1	13			89	40.45	1
PFB7	1410-01-443-3338	GUIDED MISSILE, TACTICAL, JOINT STANDOFF WEAPON (JSOW), AGM-154/A	0035	BOMBS	1.2	D	42.031628	92.663857	C	1				2118	962.73	1
PH79	1420-00-176-1221	SECTION, GUIDANCE /CHAPARRAL/	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.589670	1.300000	C	1.4				100	45.45	1
PJ02	1425-01-024-9982	STINGER, BASIC MODEL 92A WITH GRIPSTOCK IN MTL CNT	0181	ROCKETS	1.1	E	4.794473	10.570000	6	1	13			89	40.45	1
PL23	1427-00-163-8959	GUIDED MISSILE AND LAUNCHER, HEAT DRAGON I	0182	ROCKETS	1.2	E	2.471626	5.449000	1	1			04	67	30.45	1
PL23	1427-01-227-1722	GUIDED MISSILE, AND LAU M222	0182	ROCKETS	1.2	E	1.111302	2.450000	1	1			04	72	32.73	1
PL90	1427-01-024-9967	STINGER, BASIC MOD 92A WITHOUT GRIPSTOCK IN WD CTN	0181	ROCKETS	1.1	E	4.794473	10.570000	6	1	13			83	37.73	1
PL93	1427-01-219-7116	STINGER, BASIC MOD 92A WITHOUT GRIPSTOCK IN MTL CT	0181	ROCKETS	1.1	E	4.794473	10.570000	6	1	13			89	40.45	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
PT43	1420-00-916-6777	SECTION, GUIDANCE	0276	CARTRIDGES, POWER DEVICE	1.4	C	0.589670	1.300000	C	1.4				100	45.45	1
PU06	1410-01-374-5663	GUIDED MISSILE, AGM-88C, TACTICAL, HARM	0182	ROCKETS	1.2	E	145.15182	320.00491	S	1			08	2460	1118.18	2
PV47	1410-01-313-5367	MISSILE, TOW 2A BGM-71E-3B	0181	ROCKETS	1.1	E	6.957202	15.338000	2	1	13			89	40.45	1
PV89	1410-01-374-9708	GUIDED MISSILE, INTERCEPT-AERIAL AIM-9M	0181	ROCKETS	1.1	E	30.798929	67.900002	C	1	13		04	1282	582.73	4
SM60	1377-01-014-2401	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				0.4	0.18	1
SM61	1377-01-014-2402	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				0.2	0.09	1
SM66	1377-01-014-2407	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000272	0.000600	7	1.4				0.2	0.09	1
SM72	1377-01-015-9058	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000318	0.000700	7	1.4				0.1	0.05	1
SM86	1377-01-015-9072	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000272	0.000600	7	1.4				0.1	0.05	1
SM92	1377-01-016-3203	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000272	0.000600	7	1.4				0.1	0.05	1
SN17	1377-01-017-4526	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000272	0.000600	7	1.4				2	0.91	1
SN20	1377-01-017-4529	CORD ASSEMBLY, DETONATING F15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000318	0.000700	7	1.4				2	0.91	1
SN40	1377-01-033-3361	CORD, SHIELDED MILD DETONATING F-15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000363	0.000800	7	1.4				0.2	0.09	1
SN41	1377-01-034-9804	CORD, SHIELDED MILD DETONATING F-15	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.000408	0.000900	7	1.4				0.3	0.14	1
SN55	1377-01-144-8482	DETONATION TRANSFER ASSEMBLY F-16	0367	FUZES, DETONATING	1.4	S	0.001950	0.004300	7	1.4				6.8	3.09	1
V229	1337-00-484-8551	ROCKET MOTOR, M112	0186	ROCKET MOTORS	1.3	C	294.83511	650.00000	P	1				1128	512.73	1
V263	1336-00-801-7550	SAFETY AND ARMING DEVICE, MK 13 MOD 0 FOR AIM9D	0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4	S	0.444339	0.979600	7	1.4				58	26.36	20
V404	1336-01-006-0522	WARHEAD SECTION, MK 71 MOD 0 HE AIM 7F	0286	WARHEADS, ROCKET	1.1	D	11.838764	26.100000	7	1	13			117	53.18	1
V496	1337-01-162-3421	R/MOTOR YSR113TC1	0186	ROCKET MOTORS	1.3	C	127.07848	280.16000	7	1				1058	480.91	1
V548	1336-01-129-2305	WARHEAD, WAU-17/B AIM-7	0286	WARHEADS, ROCKET	1.1	D	16.329330	36.000000	7	1	13			118.1	53.68	1

Figure H-1. Ammunition and Explosives Matrix

DODIC	NSN	US NOMENCLATURE	UN NUMBER	PROPER SHIPPING NAME	DIVISION	CG	NET EXPLOSIVE WEIGHT KILOGRAMS	NEW LBS	SRC	PLACARD & LABEL	ADDITIONAL PLACARD & LABEL	SUPPL AIS	IBD	PACKAGED WEIGHT LBS	PACKAGED WEIGHT KGS	UNIT PACK
V548	1336-01-171-6948	WARHEAD SECTION, 17A/B	0286	WARHEADS, ROCKET	1.1	D	16.057175	35.400002	7	1	13			118.1	53.68	1
V557	1336-01-162-3422	WARHEAD SECTION, WAU-7B	0286	WARHEADS, ROCKET	1.1	D	20.525515	45.250999	C	1	13			432	196.36	1
V887	1337-01-145-9360	ROCKET MOTOR, MK 36 MOD 10 AIM-9	0186	ROCKET MOTORS	1.3	C	27.215549	60.000000	7	1				129	58.64	1
V888	1337-01-145-1963	ROCKET MOTOR, MK 36 MOD 11 AIM-9	0186	ROCKET MOTORS	1.3	C	27.215549	60.000000	7	1				129	58.64	1
V998	1336-01-374-6872	WARHEAD SECTION, TACTICAL WAU-27/B	0286	WARHEADS, ROCKET	1.1	D	18.506575	40.799999	C	1	13			420	190.91	2

Figure H-1. Ammunition and Explosives Matrix

APPENDIX I
MATERIAL SAFETY DATA SHEETS

I-1. Sample material safety data sheets (MSDSs) may be obtained from the Hazardous Material Information System CD-ROM. MSDSs are also provided with item and may be obtained from the supply-point database and on-line (for example, *http://hazard.com/msds*).

I-2. Figure I-1 is a modified example of a manufacturer's MSDS for paint. To determine how the product should be classified, there are two places to look:

a. The "Transport Information" section. In this example, the packaging group is II, the United Nations (U.N.) number is 1263, and the shipping name is PAINT RELATED MATERIAL.

b. If the Transport Information section does not provide the required information or if the information is confusing, the flashpoint (FP) and boiling point (BP) should be checked. The FP is in the "Fire Fighting Measures" section, and the BP is in the "Physical and Chemical Properties" section. In this case, the FP is 18 degrees Celsius, and the BP is 59 degrees Celsius. Looking at the "Paint" section in table 15 of this publication, these temperatures meet the criteria for both 3,5°(c) and 3,31°(c). The "Ingredients" section does not identify any nitrocellulose contents, so it is possible to transport under either item number.

Material Safety Data Sheet

Head Office:	ABC Chemicals, 123 Main Street, Anytown, Canada			Technical Information:	1-800-201-8822 or info@mgchemicals.com
Revision Date:	Sept 5, 2000	Prepared by:	John Smith	Emergency:	Phone Canutech (613) 996-6666 Collect 24 hrs

Section 1: Product Identification

Product Code: 842 - liquid	Name: Silver Print
Use: For repairing traces on circuit boards	

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
7440-22-4	silver	50 - 60	1mg/m3	1mg/m3	n/e
78-93-3	2-butanone	3 - 5	200ppm	200ppm	300ppm
1330-20-7	xylenes	3 - 5	100ppm	100ppm	150ppm
108-88-3	toluene	3 - 5	50ppm	100ppm	150ppm
141-78-6	ethyl acetate	2 - 3	400ppm	400ppm	
Flash Point: -18C	LEL / UEL	1 / 36			
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.				
General Information:	Will burn if involved in a fire. Flash back along vapor trail is possible.				

NFPA Ratings:	Health	1	Flammability	3	Reactivity 1 - 2		1
HMIS Ratings:	Health	1	Flammability	3	Reactivity	1&n	250ppm
67-63-0	2-propanol	<1	400ppm	400ppm	500ppm		

Section 3: Hazards Identification

Eyes:	Causes severe eye irritation, tearing, redness, and blurred vision. Vapors from this product are irritating to the eye.
Skin:	May cause skin irritation. May cause defatting of skin.
Inhalation:	Product is irritating to the nose, throat, and respiratory tract. May cause liver and kidney damage, and central nervous system depression.
Ingestion:	Harmful if swallowed. Ingestion of large amounts may cause nausea, gastrointestinal upset, and pain. May cause liver and kidney damage, and central nervous system depression.
Chronic:	May cause liver and kidney damage.

Section 4: First Aid Measures

Eyes:	Remove contact lenses. Flush with water or saline for 15 minutes. Get medical aid.
Skin:	Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist.
Inhalation:	Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion:	Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature	465C	Flash Point	-18C	LEL / UEL	1 / 36
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.				
General Information:	Will burn if involved in a fire. Flash back along vapor trail is possible.				

NFPA Ratings:	Health	1	Flammability	3	Reactivity	1		
HMIS Ratings:	Health	1	Flammability	3	Reactivity	1	WHMIS Codes	B2, D1A

Section 6: Accidental Release Measures

Spill Procedure:	Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling:	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.
Storage:	Keep away from sources of ignition. Store in a cool, dry, well ventilated area, away from incompatible substances. Keep from freezing.

Section 8: Exposure Controls

Routes of entry:	Eyes, ingestion, inhalation, and skin.
Ventilation:	Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.
Personal Protection:	Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor:	ethereal	Solubility:	partial	Evaporation Rate:	fast		
Boiling Point:	59C	Specific Gravity:	0.85	Vapor Pressure:	1PSI@21C	Vapor Density:	4.1 (Air=1)	Ph:	7

Section 10: Stability and Reactivity

Stability:	Stable at normal temperatures and pressures.
Conditions to avoid:	Temperatures over 40C, ignition sources, and incompatible substances.
Incompatibilities:	Alkali and alkaline earth metals, powdered aluminum, zinc, magnesium, and beryllium, lithium aluminum hydride, potassium tert-butoxide, nitrates, strong acids, strong oxidizers, chlorosulphonic acid, hydrogen peroxide.
Polymerization:	Will not occur.
Decomposition:	Carbon monoxide, carbon dioxide, nitrogen oxides

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure)	Prolonged or repeated skin contact may cause dermatitis.
Carcinogenicity: (risk of cancer)	No
Teratogenicity: (risk of malformation in an unborn fetus)	This product contains zylene, a known embryotoxin. Pregnant women must avoid all contact with this product.
Reproductive Toxicity: (risk of sterility)	Toluene is listed under California proposition 65 under chemicals known to cause reproductive toxicity.
Mutangenicity: (risk of heritable genetic effects)	No

Lethal Exposure Concentrations:	Ingestion(LD50):	7400 mg/kg (rat)	Inhalation (LC50):	16000 ppm/4h (rat)	Skin (LD50):	n/e	

Section 12: Ecological Information

General Information:	Avoid runoff into storms and sewers that lead into waterways. Water runoff can cause environmental damage.

Environmental Impact Data: (percentage by weight)											
CFC:	0	HFC:		Cl.Solv.	0	VOC:	53	HCFC:	0	ODP:	0

Section 13: Disposal Information

General Information:	Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground

Shipping Name - Paint related material, Class 3, U.N.# 1263, Packing Group II, Subsidiary Risk - nil, Use only M.G. Chemicals U.N. certified outer cartons. Tape all seems on the carton. Hazard Label required - Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton. The shipper must be trained and certified to handle documented dangerous goods. References - CFR 49, IATA, Transport Canada TDG.

Air

Shipping Name - Paint related material, Class 3, U.N.# 1263, Packing Group II, Subsidiary Risk - nil, IATA Packaging Instructions - 305, Use only M.G. Chemicals U.N. certified outer cartons. Tape all seems on the carton. Hazard Label required - Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton. The shipper must be trained and certified to handle documented dangerous goods. References - CFR 49, IATA, Transport Canada TDG.

Sea

Shipping Name - Paint related material, Flash point -18C, Class 3, U.N.# 1263, Packing Group - II, Vessel Storage - stow clear of living quarters, stow away from sources of heat, may be stowed on deck or under deck on a cargo vessel, must be stowed on deck on a passenger vessel. Use M.G. Chemicals U.N. certified outer carton. Hazard Label required - Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton. Tape all seems. Emergency - phone (613) 996-6666 collect. For further information refer to IMO regulations or phone M.G. Chemicals technical service at 1-800-201-8822.

Section 15: Regulatory Information

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains the following chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372: Methanol (CAS #67-56-1, 2% by weight)

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depletors.

This product does not contain any class 2 ozone depletors.

This product contains methanol (CAS #67-56-1, 2% by weight), listed as a hazardous air pollutant.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains toluene, listed under chemicals know to the state to cause reproductive toxicity.

Health Canada

	Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

	Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act
	This product does not contain any ozone depleting substances.

Industry and Science Canada

	Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

Section 16: Other Information

Definitions:	n/a = not applicable, n/e = not established
Disclaimer:	This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

Figure I-1. Sample Material Data Safety Sheet

GLOSSARY

Section I
ABBREVIATIONS

1st TMCA	1st Transportation Movement Control Agency
21st TSC	21st Theater Support Command
37th TRANSCOM	37th Transportation Command
AA&E	arms, ammunition, and explosives
ADN	*Accord Européen relatif au Transport International des Marchandises dangereuses par Voies de navigation intérieures*
ADNR	*Accord Européen relatif au Transport International des Marchandises dangereuses par Voies de navigation intérieures* - Rhein
ADR	*Accord Européen relatif au Transport International des Marchandises dangereuses par Route*
AFMAN	Air Force manual
AIS	accident information sheet
ASG	area support group
ASP	ammunition supply point
ATMCT	air terminal movement control team
Bq	Becquerel
Ci	curie
cm²	square centimeter
CONUS	continental United States
CSC	Container Safety Convention
DA	Department of the Army
DD	Defense Department
DGA	dangerous goods adviser
DOD	Department of Defense
DODAAC	Department of Defense account activity code
DODIC	Department of Defense Identification Code
DOT	Department of Transportation
dpm	decomposition per minute
ECIP	European Compliance Inspection Program
G1	Office of the G1, HQ USAREUR/7A
G3	Office of the G3, HQ USAREUR/7A
G4	Office of the G4, HQ USAREUR/7A
GBq	gigabecquerel
GGVSE	*Gefahrgutverordnung Straße und Eisenbahn*
HAZMAT	hazardous material
HIN	hazard identification number
HMCT	highway movement control team
HQ	headquarters
HVCP	hazardous material vehicle certification permit
IATA	International Air Transport Association
IBD	inhabited building distance
ICAO	International Civil Aviation Organization
IMA-Europe	United States Army Installation Management Agency, Europe Region Office
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organization
ITO	installation transportation office
JHMSC	Joint Hazardous Materials Steering Committee
kg	kilogram
kPa	kilopascal
MAJCOM	major command (USAFE)
MBq	megabecquerel
MC	movement control
MCT	movement control team
MEGC	multielement gas container

MHE	material handling equipment
MILSPEC	military specification
MILSTAMP	Military Standard Transportation and Movement Program
MOGAS	motor gasoline
MP	military police
N/A	not applicable
NEW	net explosive weight
NIOSH	National Institute for Occupational Safety and Health
NSN	national stock number
OCCA	ocean cargo clearing authority
OPM	office of the provost marshal
POC	point of contact
psi	pounds per square inch
PSN	proper shipping name
QASAS	quality-assurance specialist (ammunition surveillance)
RID	*Règlement International concernant le Transport des Marchandises dangereuses*
SRC	security risk code
Sv/h	sieverts per hour
TBq	terabecquerel
TM	technical manual
TMO	transportation movement office
TPU	tank and pump unit
ULLS	Unit-Level Logistics System
U.N.	United Nations
USAFE	United States Air Forces in Europe
USAMC-E	United States Army Materiel Command, Europe
USAREUR	United States Army, Europe
USEUCOM	United States European Command

Section II
TERMS

battery vehicle
A vehicle with an assembly of several cylinders, tubes, pressure drums, several bundles of cylinders, or several tanks interconnected by a manifold, permanently mounted in a frame, and permanently fixed to a transport unit.

bulk or tank container
A specific type of container designed to transport solid or liquid substances in bulk.

capital letter
Part of a European-unique system for identifying the subsidiary dangers associated with class 2 substances. Capital letters A, C, F, and T are found in place of the small letters used with other classes and associated with the item number. The capital letter is a mandatory entry on the transport document.

carriage in bulk
The carriage of a solid or liquid substance without packaging.

carrier
Any individual, company, or corporation commercially engaged in transporting cargo or passengers.

closed vehicle
A vehicle having a body capable of being closed.

competent authority
A single nationally designated agency legally assigned responsibility and authority for control and certification of a specific portion of the transportation process.

consignor
The individual that concludes a contract of carriage with the carrier. If no contract of carriage is concluded, the carrier is considered to be the consignor.

container
An article of transport equipment (lift van or other similar structure) of a permanent nature that is strong enough for repeated use and specially designed for the carriage of goods, by one or more means of transport, without breakage of the load. Containers are fitted with devices to allow for easy handling and filling, and have a capacity of at least 1 cubic meter.

dangerous goods
Hazardous material (substances and items) that may be transported only under certain conditions according to regulations. For transportation purposes, dangerous goods are synonymous with hazardous material.

dangerous substance
Substances and articles designated by this publication as dangerous.

demountable tank
A tank other than a fixed tank, a tank container, or an element of a battery-vehicle, with a capacity of more than 450 liters. Demountable tanks are not designed for the carriage of goods without breakage of the load and normally can only be handled when it is empty (for example, a tank and pump unit).

driver
Any individual trained, licensed, and authorized to drive military vehicles on public roads, and trained, licensed, and authorized to transport hazardous cargo on public roads under the provisions of the *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road).

expert
A trained individual with enough experience to perform a function to a high standard.

fixed tank
A tank with a capacity of more than 1,000 liters that is structurally attached to a vehicle (which then becomes a tank-vehicle) or that is an integral part of the frame of the vehicle.

handling device
A convenience device that allows multiple United Nations (U.N.)-certified packages to be carried in one consolidated group, normally using mechanical handling equipment. Handling devices include crates, fiberboard consolidation boxes, 463L pallets, warehouse pallets, and similar objects that do not meet the definition of a container and that are not U.N.-certified packagings.

hazardous material
See dangerous goods.

label
The required symbols designating the hazardous material contained inside that are placed on packaging and package-handling convenience devices (such as pallets) when required.

loader
A person who gives dangerous goods to a carrier for transportation in his or her capacity as the direct owner of the goods, or a person who transports the dangerous goods.

marking
Information that is written or stenciled onto a package or other device. Also referred to as orange rectangular warning plates.

military installation (confined)
Roads running through Armed Forces areas that are open to the public for transportation and secured by obstacles with no controlled entry or exit.

military installation (controlled)
An installation guarded against unauthorized entry or crossing by structures or natural obstacles and that can only be entered through closed or controlled entry and exit points.

mixed loading
Placing different sealed, United Nations (U.N.)-certified packages in or on something else (for example, placing U.N. packages in a consolidation box, on a pallet, in a container, on a truck or railcar).

mixed packing
Placing different substances or items in the same United Nations-certified package.

National Institute for Occupational Safety and Health
U.S. certifying agency for respiratory protection devices.

open vehicle
A vehicle with a platform that has no superstructure or that has only sideboards and a tailboard.

orange rectangular plate
The plain orange plate is the mandatory symbol used to identify a vehicle transporting hazardous materials. Bulk transports are also required to have numbered orange plates to identify the contents.

package
The complete product of the packaging operation, consisting of the packaging container and its contents prepared for dispatch. The term includes gases and articles that, because of their size, weight, or configuration, may be carried unpackaged or carried in cradles, crates, or handling devices. The term does not apply to unpackaged articles or substances that are carried in bulk containers or bulk vehicles, or to substances carried in tanks.

packing group
A Roman numeral code (I, II, or III) assigned by the Table of Hazardous Material (table 15) that designates the relative degree of danger of a particular material. “I” indicates the highest degree of danger, and “III” the lowest. This code relates directly to the level of United Nations packaging required. When a packing group is specified, it must be entered on the transport document.

passenger
An individual in a vehicle who does not have an assigned responsibility for the operation of the vehicle.

piggyback transport
Carriage of a road vehicle on a railcar.

placard
A diamond symbol at least 250-millimeters square in size that is applied to a vehicle, railcar, or container as required by this publication to designate the hazardous material inside. Placards have the same configuration as labels, but are of a different size.

producer of packagings
The activity or agency qualified and authorized to produce or manufacture packagings conforming to United Nations standards to contain hazardous materials.

proper shipping name
The mandatory name for a substance or article associated with the U.N. number. The proper shipping name is a required entry in the transport document.

receiver
The activity or agency where a shipment terminates. The activity is usually the final consignee, but may also be an agent for the final consignee (for example, a central receiving point or a temporary storage point for the ultimate consignee).

requester
Any person, activity, or agency requesting the transport of hazardous goods to a receiver.

sheeted vehicle
An open vehicle provided with a sheet (tarp) to protect the load.

shipper/transshipper
A service or agency activity (including the contract administration or purchasing office for vendors) or a vendor that originates shipments. Shipper also means the activity having physical custody of the goods at the time of shipment.

small letter
Part of a unique, European classification system, based on the *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road), the *Règlement International concernant le Transport des Marchandises dangereuses* (*RID*) (European Regulation Concerning the International Carriage of Dangerous Goods by Rail), the *Accord Européen relatif au Transport International des Marchandises dangereuses par Voies de navigation intérieures* (*ADN*) (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways), and the *ADN*-Rhein (*ADNR*), that uses lowercase letters (a, b or c) associated with the European item number. The letters designate the degree of danger posed by the substance or article, with "a" being the highest danger. The letters represent the packing groups associated with other international regulations and are a required entry on the transport document.

small quantity exemption
A European-specific road transport allowance for certain quantities of properly packaged and documented goods to be transported under less-stringent carrier requirements. This is not the same as "limited quantity" or "exempt quantity" allowances found under other regulations

tank
When used alone, a tank container, fixed tank, demountable tank, or an element of a battery vehicle.

tank container
An article of transport equipment (including tank swap-bodies) conforming to the definition of a container and built to contain liquid, gaseous, powdery, or granular substances.

tank vehicle
A vehicle built to carry liquids, gases, or powdery or granular substances that has one or more fixed tanks.

transport category
A European peculiar risk-based division of all hazardous materials into four categories, 0 through 4, which are used to determine quantities allowed to be carried under the small quantity exemption.

transport unit
A motor vehicle without an attached trailer, or a combination consisting of a motor vehicle and an attached trailer. A transport unit may be considered as a single vehicle or assembly with a trailer as it is prepared to be driven. For example, a 5-ton cargo truck driven without a trailer is a transport unit. A 5-ton cargo truck with a trailer is also considered a transport unit. The difference between "transport unit" and "vehicle" is important for placarding and compatibility purposes.

United Nations (U.N.)-certified package
An internationally recognized and required package identifiable by a specific code that designates that the package is certified by a national competent authority to contain hazardous material (formerly known as performance-oriented packaging (POP) in the United States).

United Nations (U.N.) number
A four-digit code assigned by international agreement to represent a unique substance or group of substances as part of a proper shipping name. The code is recognizable regardless of language used to write the name of the substance.

vehicle
In this publication and in the *Accord Européen relatif au Transport International des Marchandises dangereuses par Route* (*ADR*) (European Agreement Concerning the International Carriage of Dangerous Goods by Road), any load containing a portion of a transport unit. A 5-ton cargo truck is a vehicle. A ¾-ton trailer is also considered a vehicle. The difference between "transport unit" and "vehicle" is important for placarding and compatibility purposes.

vehicle crew
One or more individuals in the vehicle during transport, including the driver, a codriver, and any other occupant who has been assigned responsibility for the operation of the vehicle. The vehicle crew does not include passengers.

vehicle owner
The person, corporation, or agency that owns and controls the configuration and certification of vehicles.

wagon
Railcar.

wagon load
Exclusive use of a railcar, regardless of whether or not the car is full.