

# **federal register**

*HM-181A*

Friday  
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## **Part III**

### **Department of Transportation**

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**Research and Special Programs  
Administration**

**49 CFR Parts 172 and 173**

**Requirements for Explosives; Correction  
to Proposed Rule**

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## DEPARTMENT OF TRANSPORTATION

Research and Special Programs  
Administration

## 49 CFR Parts 172 and 173

[Docket No. HM-181A; Notice No. 90-5]

RIN 2137-AA01

Requirements for Explosives:  
Correction

**AGENCY:** Research and Special Programs Administration (RSPA), U.S. Department of Transportation (DOT).

**ACTION:** Notice of proposed rulemaking (NPRM); Correction.

**SUMMARY:** This document amends the NPRM regarding requirements for explosives published on May 2, 1990 (Docket No. HM-181A; Notice No. 90-5; 55 FR 18438), by correcting several non-substantive errors and omissions. These corrections should provide a better understanding of the proposals contained in Notice No. 90-5.

**DATES:** Comments must be received on or before July 18, 1990.

**ADDRESSES:** Address comments to the Dockets Unit, Research and Special Programs Administration, U.S. Department of Transportation, Washington, DC 20590. Comments should identify the docket and be submitted, if possible, in five copies. Persons wishing to receive confirmation of receipt of their comments should include a self-addressed stamped postcard showing the docket number (i.e., Docket HM-181A). The Dockets Unit is located in Room 8419 of the Nassif Building, 400 Seventh Street, SW., Washington, DC 20590. Telephone: (202) 366-5046. The public dockets may be reviewed between the hours of 8:30 a.m. to 5:00 p.m., Monday through Friday.

**FOR FURTHER INFORMATION CONTACT:** Charles H. Ke (202-366-4545) or Delmer F. Billings (202-366-4488), Office of Hazardous Materials Transportation, RSPA, 400 Seventh Street SW., Washington, DC 20590.

**SUPPLEMENTARY INFORMATION:** May 2, 1990, RSPA published a NPRM under Docket No. HM-181A, proposing to amend the Hazardous Materials Regulations (HMR; 49 CFR parts 171-180) with regard to hazard classification, packaging, and hazard communication requirements applicable to explosives. That NPRM contained several inadvertent mistakes which are being corrected by this document. In addition, we are correcting Notice No. 90-5 by including certain provisions which were inadvertently omitted.

Notice No. 90-5 supplemented the rulemaking initiated under Docket No. HM-181, entitled "Performance-Oriented Packaging Standards" (Notice No. 87-4; 52 FR 16482 and 52 FR 42772, published May 5, 1987 and November 6, 1987, respectively), by addressing the requirements of the HMR applicable to explosives. The proposals contained in Notice Nos. 87-4 and 90-5 are based on the United Nations Recommendations on the Transport of Dangerous Goods.

As noted above, Notice No. 90-5 was published with several non-substantive errors and omissions. Some sections were published with typographical errors and other sections were published with misplaced or missing text. The Hazardous Materials Table (HMT; 49 CFR 172.101) was published with several typographical errors, incomplete column entries, and, because of a data processing error, with incorrect data in Column 10, "Vessel Stowage Provisions." The Class 1 (explosive) entries in the HMT are republished in their entirety in this document.

In Column 10, RSPA is proposing to amend vessel stowage requirements to conform with the 1990 Consolidated Edition (Amendment 25) of the International Maritime Dangerous Goods Code (IMDG Code). Columns 10A and 10B of the HMT, as proposed in Notice No. 87-4, would be consolidated into a single stowage column (10A). Stowage descriptions in the consolidated Column 10A would be organized under stowage categories "A" through "E." These categories are defined in § 172.101(k), which is revised in this document.

Column 10C of the HMT ("Other stowage provisions"), as proposed in Notice No. 87-4, has been relabeled Column 10B. Except for those codes defined below, the definition of the codes in Column 10B are set forth in proposed § 178.84 of Docket No. HM-204 (May 21, 1990; Notice No. 90-6; 55 FR 20962). The codes 24E through 28E would be defined as follows:

*Note and Provision*

- 24E Passenger vessels, on deck or under deck, in portable magazines only.
- 25E Passenger vessels, in containers or the like, on deck only.
- 26E Cargo vessel, on deck, in containers or the like (non-metallic lining is necessary if not in sealed dust tight packages).
- 27E Cargo vessel, on deck, in containers or the like (non-metallic lining necessary).
- 28E Cargo vessel, when items are transported as projectiles or cartridges for guns, cannons, or

mortars, notes 1E and 7E are applicable. All other times, notes 14E, 15E and 8E are applicable.

Though no corresponding column designations have been published for proper shipping names for other than Class 1 (explosive), RSPA will incorporate these new codes and column designations into the rest of the HMT under any final rule published under Docket No. HM-181. As RSPA stated in Notice No. 87-4:

... the proposed Column 10 has been redone to conform with the IMDG Code (including Amendment 22, effective July 1, 1986) thereby filling the gap for international shipments. The net result should be international uniformity and fewer problems with improperly stowed cargo. Any amendments subsequently adopted in the IMDG Code which affect Column 10 are planned to be incorporated into the final rule.

In consideration of the foregoing, in Docket No. HM-181A, Notice No. 90-5, published in the Federal Register on May 2, 1990 (55 FR 18438), make the following corrections:

1. On page 18442, third column, add item 5a to read:

5a. In § 172.101, paragraph (k), as proposed at 52 FR 42788 on November 6, 1987, is revised to read as follows:

**§ 172.101 Purpose and use of hazardous materials table.**

(k) *Column 10: Vessel stowage requirements.* Column 10A [Vessel stowage] specifies the authorized stowage locations on board cargo and passenger vessels. Column 10B [Other provisions] specifies codes for stowage requirements for specific hazardous materials. The meaning of each code in column 10B is set forth in § 178.84 of this subchapter. Section 178.83 of this subchapter sets forth the physical requirements for each of the authorized locations listed in column 10A. (For bulk transportation by vessel, see 46 CFR parts 30 to 40, 70, 98, 148, 151, 153 and 154). The authorized stowage locations specified in Column 10A are defined as follows:

- (1) Stowage category "A" means the material may be stored "on deck" or "under deck" on a cargo vessel and a passenger vessel.
- (2) Stowage category "B" means the material may be stored "on deck" or "under deck" on a cargo vessel, but must be stowed "on deck" on a passenger vessel.
- (3) Stowage category "C" means the material must be stored "on deck" on a cargo vessel and on a passenger vessel.
- (4) Stowage category "D" means the material must be stowed "on deck" on a

cargo vessel, but is prohibited on a passenger vessel.

(5) Stowage category "E" means the material may be stowed "on deck" or "under deck" on a cargo vessel, but is prohibited on a passenger vessel.

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1a. On page 18442, in the third column, revise item 6 to read as follows:

"6. In § 172.101, as proposed at 52 FR 42783 on November 6, 1987, the following entries for explosives are either revised or added in appropriate alphabetical order to the Hazardous Materials Table beginning at 52 FR

42787, and columns 10A, 10B, and 10C are consolidated into new columns 10A and 10B for the following entries for explosives:"

2. Replace the table which appears on pages 18443 to 18458 with the following:

§ 172.101 [Corrected]

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                                                                                                                                                                                    | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels             | Special<br>provisions | Packaging authorizations<br>(§173.***) |                                |                        | Quantity limitations               |                        | Vessel stowage requirements |                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|--------------------|-----------------------|----------------------------------------|--------------------------------|------------------------|------------------------------------|------------------------|-----------------------------|-----------------------------|
|              |                                                                                                                                                                                                                                                  |                 |                                |                       |                    |                       | Excep-<br>tions                        | Non-<br>bulk<br>pack-<br>aging | Bulk<br>pack-<br>aging | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only | Vessel<br>Stow-<br>age      | Other stowage<br>provisions |
| (1)          | (2)                                                                                                                                                                                                                                              | (3)             | (4)                            | (5)                   | (6)                | (7)                   | (8A)                                   | (8B)                           | (8C)                   | (9A)                               | (9B)                   | (10A)                       | (10B)                       |
|              | Ammonium nitrate fertilizer: which is more<br>liable to explode than ammonium nitrate<br>with 0.2 per cent combustible substances,<br>including any organic substance calculated<br>as carbon, to the exclusion of any other<br>added substance. | 1.1D            | UN0223                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                        | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 5E, 19E                 |
| D            | Ammonium nitrate-fuel oil mixture (containing<br>only prilled ammonium nitrate and fuel oil).                                                                                                                                                    | 1.5D            | NA0331                         | II                    | EXPLOSIVE<br>1.5D. |                       |                                        | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 5E, 19E                 |
|              | Ammonium nitrate, with more than 0.2 per<br>cent combustible substances, including any<br>organic substance calculated as carbon, to<br>the exclusion of any other added sub-<br>stance.                                                         | 1.1D            | UN0222                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                        | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 5E, 19E                 |
|              | Ammonium perchlorate                                                                                                                                                                                                                             | 1.1D            | UN0402                         | II                    | EXPLOSIVE<br>1.1D. | 107                   |                                        | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 5E, 19E                 |
|              | Ammonium picrate, dry or wetted with less<br>than 10 per cent water, by mass.                                                                                                                                                                    | 1.1D            | UN0004                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                        | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 5E, 19E                 |
|              | Ammunition, illuminating with or without burst-<br>er, expelling charge or propelling charge.                                                                                                                                                    | 1.2G            | UN0171                         | II                    | EXPLOSIVE<br>1.2G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | B                           |                             |
|              | Ammunition, illuminating with or without burst-<br>er, expelling charge or propelling charge.                                                                                                                                                    | 1.3G            | UN0254                         | II                    | EXPLOSIVE<br>1.3G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | B                           |                             |
|              | Ammunition, illuminating with or without burst-<br>er, expelling charge or propelling charge.                                                                                                                                                    | 1.4G            | UN0297                         | II                    | EXPLOSIVE<br>1.4G. |                       | 63(b)                                  | 82                             | None                   | Forbidden                          | 75kg                   | A                           | 24E                         |
|              | Ammunition, incendiary liquid or gel, with<br>burst-er, expelling charge or propelling<br>charge.                                                                                                                                                | 1.3J            | UN0247                         | II                    | EXPLOSIVE<br>1.3J. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | E                           | 7E, 13E, 23E                |
|              | Ammunition, incendiary, white phosphorus,<br>with burst-er, expelling charge or propelling<br>charge.                                                                                                                                            | 1.2H            | UN0243                         | II                    | EXPLOSIVE<br>1.2H. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | E                           | 8E, 14E, 15E                |
|              | Ammunition, incendiary, white phosphorus,<br>with burst-er, expelling charge or propelling<br>charge.                                                                                                                                            | 1.3H            | UN0244                         | II                    | EXPLOSIVE<br>1.3H. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | E                           | 8E, 14E, 15E                |
|              | Ammunition, incendiary with or without<br>burst-er, expelling charge, or propelling<br>charge.                                                                                                                                                   | 1.2G            | UN0009                         | II                    | EXPLOSIVE<br>1.2G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | B                           |                             |
|              | Ammunition, incendiary with or without burst-<br>er, expelling charge, or propelling charge.                                                                                                                                                     | 1.3G            | UN0010                         | II                    | EXPLOSIVE<br>1.3G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | B                           |                             |
|              | Ammunition, incendiary with or without burst-<br>er, expelling charge or propelling charge.                                                                                                                                                      | 1.4G            | UN0300                         | II                    | EXPLOSIVE<br>1.4G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | 75kg                   | A                           | 24E                         |
|              | Ammunition, practice                                                                                                                                                                                                                             | 1.4G            | UN0362                         | II                    | EXPLOSIVE<br>1.4G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | 75kg                   | A                           | 24E                         |
|              | Ammunition, practice                                                                                                                                                                                                                             | 1.3G            | UN0488                         | II                    | EXPLOSIVE<br>1.3G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | B                           | 1E, 7E, 25E                 |
|              | Ammunition, proof                                                                                                                                                                                                                                | 1.4G            | UN0363                         | II                    | EXPLOSIVE<br>1.4G. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | 75kg                   | A                           | 24E                         |
|              | Ammunition, smoke, white phosphorus with<br>burst-er, expelling charge, or propelling<br>charge.                                                                                                                                                 | 1.3H            | UN0246                         | II                    | EXPLOSIVE<br>1.3H. |                       | 63(b)                                  | 62                             | None                   | Forbidden                          | Forbidden              | E                           | 8E, 14E, 15E,<br>17E        |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names                        | (3)<br>Hazard<br>class | (4)<br>Identifi-<br>cation<br>Numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels      | (7)<br>Special<br>provisions | (8) Authorizations<br>(§ 173.***) |                                |                        | (9) Quantity limitations            |                        | (10) Vessel stowage requirements |                             |
|---------------------|---------------------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|--------------------|------------------------------|-----------------------------------|--------------------------------|------------------------|-------------------------------------|------------------------|----------------------------------|-----------------------------|
|                     |                                                                                             |                        |                                       |                              |                    |                              | Excep-<br>tions                   | Non-<br>bulk<br>pack-<br>aging | Bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railcar | Cargo aircraft<br>only | Vessel<br>Stow-<br>age           | Other stowage<br>provisions |
| (1)                 | Ammunition smoke, white phosphorus with<br>burst,expelling charge, or propelling<br>charge. | 1.2H                   | UN0245                                | II                           | EXPLOSIVE<br>1.2H. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 8E, 14E, 15E,<br>17E        |
|                     | Ammunition, smoke with or without burst,<br>expelling charge or propelling charge.          | 1.3G                   | UN0016                                | II                           | EXPLOSIVE<br>1.3G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 20E                         |
|                     | Ammunition, smoke with or without burst,<br>expelling charge or propelling charge.          | 1.4G                   | UN0303                                | II                           | EXPLOSIVE<br>1.4G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | 75kg                   | E                                | 20E                         |
|                     | Ammunition, smoke with or without burst,<br>expelling charge or propelling charge.          | 1.2G                   | UN0015                                | II                           | EXPLOSIVE<br>1.2G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 20E                         |
|                     | Ammunition, tear-producing with burst, ex-<br>pelling charge or propelling charge.          | 1.2G                   | UN0018                                | II                           | EXPLOSIVE<br>1.2G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 20E                         |
|                     | Ammunition, tear-producing with burst, ex-<br>pelling charge or propelling charge.          | 1.3G                   | UN0019                                | II                           | EXPLOSIVE<br>1.3G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 20E                         |
|                     | Ammunition, tear-producing with burst, ex-<br>pelling charge or propelling charge.          | 1.4G                   | UN0301                                | II                           | EXPLOSIVE<br>1.4G. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | 75kg                   | E                                | 20E                         |
|                     | Ammunition, toxic with burst, expelling<br>charge or propelling charge.                     | 1.2K                   | UN0020                                | II                           | EXPLOSIVE<br>1.2K. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 11E,<br>17E         |
|                     | Ammunition, toxic with burst, expelling<br>charge, or propelling charge.                    | 1.3K                   | UN0021                                | II                           | EXPLOSIVE<br>1.3K. |                              | 63(b)                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 11E,<br>17E         |
|                     | Articles, explosive, extremely insensitive; (Ar-<br>ticles, EEI).                           | 1.6N                   | UN0486                                | II                           | EXPLOSIVE<br>1.6N. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.4S                   | UN0349                                | II                           | EXPLOSIVE<br>1.4S. | 101                          |                                   | 62                             | None                   | 25kg                                | 100kg                  | A                                | 9E                          |
|                     | Articles, explosive, n.o.s.                                                                 | 1.4B                   | UN0350                                | II                           | EXPLOSIVE<br>1.4B. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 24E                         |
|                     | Articles, explosive, n.o.s.                                                                 | 1.4C                   | UN0351                                | II                           | EXPLOSIVE<br>1.4C. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 24E                         |
|                     | Articles, explosive, n.o.s.                                                                 | 1.4D                   | UN0352                                | II                           | EXPLOSIVE<br>1.4D. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 24E                         |
|                     | Articles, explosive, n.o.s.                                                                 | 1.4G                   | UN0353                                | II                           | EXPLOSIVE<br>1.4G. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 24E                         |
|                     | Articles, explosive, n.o.s.                                                                 | 1.1L                   | UN0354                                | II                           | EXPLOSIVE<br>1.1L. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 17E                 |
|                     | Articles, explosive, n.o.s.                                                                 | 1.2L                   | UN0355                                | II                           | EXPLOSIVE<br>1.2L. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 17E                 |
|                     | Articles, explosive, n.o.s.                                                                 | 1.3L                   | UN0356                                | II                           | EXPLOSIVE<br>1.3L. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 17E                 |
|                     | Articles, explosive, n.o.s.                                                                 | 1.1C                   | UN0462                                | II                           | EXPLOSIVE<br>1.1C. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.1D                   | UN0463                                | II                           | EXPLOSIVE<br>1.1D. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.1E                   | UN0464                                | II                           | EXPLOSIVE<br>1.1E. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.1F                   | UN0465                                | II                           | EXPLOSIVE<br>1.1F. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | E                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.2C                   | UN0466                                | II                           | EXPLOSIVE<br>1.2C. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|                     | Articles, explosive, n.o.s.                                                                 | 1.2D                   | UN0467                                | II                           | EXPLOSIVE<br>1.2D. | 101                          |                                   | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names             | (3)<br>Hazard<br>class | (4)<br>Identifica-<br>tion<br>Numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels              | (7)<br>Special<br>provisions | (8)<br>Packaging authorizations<br>(1/3, ...) |                                |                        | (9)<br>Quantity limitations        |                        | (10)<br>Vessel storage requirements |                             |
|---------------------|----------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|----------------------------|------------------------------|-----------------------------------------------|--------------------------------|------------------------|------------------------------------|------------------------|-------------------------------------|-----------------------------|
|                     |                                                                                  |                        |                                       |                              |                            |                              | Excep-<br>tions                               | Non-<br>bulk<br>pack-<br>aging | Bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only | Vessel<br>Stow-<br>age              | Other storage<br>provisions |
| D                   | Articles, explosive, n.o.s.                                                      | 1.2E                   | UN0488                                | II                           | EXPLOSIVE<br>1.2E          | 101                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Articles, explosive, n.o.s.                                                      | 1.2F                   | UN0489                                | II                           | EXPLOSIVE<br>1.2F          | 101                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | E                                   |                             |
|                     | Articles, explosive, n.o.s.                                                      | 1.3C                   | UN0470                                | II                           | EXPLOSIVE<br>1.3C          | 101                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Articles, explosive, n.o.s.                                                      | 1.4E                   | UN0471                                | II                           | EXPLOSIVE<br>1.4E          | 101                          |                                               | 62                             | None                   | Forbidden                          | 75kg                   | A                                   | 24E                         |
|                     | Articles, explosive, n.o.s.                                                      | 1.4F                   | UN0472                                | II                           | EXPLOSIVE<br>1.4F          | 101                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | E                                   |                             |
|                     | Articles, pyrophoric                                                             | 1.2L                   | UN0380                                | II                           | EXPLOSIVE<br>1.2L          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | E                                   | 2E, 8E, 17E                 |
|                     | Articles, pyrotechnic for technical purposes                                     | 1.1G                   | UN0428                                | II                           | EXPLOSIVE<br>1.1G          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Articles, pyrotechnic for technical purposes                                     | 1.2G                   | UN0429                                | II                           | EXPLOSIVE<br>1.2G          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Articles, pyrotechnic for technical purposes                                     | 1.3G                   | UN0430                                | II                           | EXPLOSIVE<br>1.3G          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Articles, pyrotechnic for technical purposes                                     | 1.4G                   | UN0431                                | II                           | EXPLOSIVE<br>1.4G          |                              |                                               | 62                             | None                   | Forbidden                          | 75kg                   | A                                   | 24E                         |
|                     | Articles, pyrotechnic for technical purposes                                     | 1.4S                   | UN0432                                | II                           | EXPLOSIVE<br>1.4S          |                              |                                               | 62                             | None                   | 25kg                               | 100kg                  | A                                   | 9E                          |
|                     | Barium azide, dry or wetted with less than 50<br>per cent water, by mass.        | 1.1A                   | UN0224                                | II                           | EXPLOSIVE<br>1.1A, Poison. | 111                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | E                                   | 2E, 6E                      |
|                     | Barium styphnate                                                                 | 1.1A                   | NA0473                                | II                           | EXPLOSIVE<br>1.1A          | 111                          |                                               | 62                             | None                   | Forbidden                          | Forbidden              | E                                   | 2E, 6E                      |
|                     | Black powder (Gunpowder), compressed or<br>Black powder (Gunpowder), in pellets. | 1.1D                   | UN0028                                | II                           | EXPLOSIVE<br>1.1D          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   | 1E, 5E                      |
| D                   | Black powder (Gunpowder), granular or as a<br>meal                               | 1.1D                   | UN0027                                | II                           | EXPLOSIVE<br>1.1D          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   | 10E, 26E                    |
|                     | Blasting agent, n.o.s.                                                           | 1.5D                   | NA0331                                | II                           | EXPLOSIVE<br>1.5D          |                              |                                               | 62                             | None                   | Forbidden                          | Forbidden              | B                                   | 1E, 5E, 19E                 |
|                     | Bombs, photo-flash                                                               | 1.1F                   | UN0037                                | II                           | EXPLOSIVE<br>1.1F          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | E                                   |                             |
|                     | Bombs, photo-flash                                                               | 1.1D                   | UN0038                                | II                           | EXPLOSIVE<br>1.1D          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Bombs, photo-flash                                                               | 1.2G                   | UN0039                                | II                           | EXPLOSIVE<br>1.2G          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Bombs, photo-flash                                                               | 1.3G                   | UN0299                                | II                           | EXPLOSIVE<br>1.3G          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | B                                   |                             |
|                     | Bombs, with bursting charge                                                      | 1.1F                   | UN0033                                | II                           | EXPLOSIVE<br>1.1F          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | E                                   |                             |
|                     | Bombs, with bursting charge                                                      | 1.1D                   | UN0034                                | II                           | EXPLOSIVE<br>1.1D          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | B                                   | 3E, 7E                      |
|                     | Bombs, with bursting charge                                                      | 1.2D                   | UN0035                                | II                           | EXPLOSIVE<br>1.2D          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | B                                   | 3E, 7E                      |
|                     | Bombs, with bursting charge                                                      | 1.2F                   | UN0291                                | II                           | EXPLOSIVE<br>1.2F          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | E                                   |                             |
|                     | Bombs with flammable liquid, with bursting<br>charge.                            | 1.1J                   | UN0399                                | II                           | EXPLOSIVE<br>1.1J          |                              | 63(b)                                         | 62                             | None                   | Forbidden                          | Forbidden              | E                                   | 7E, 16E, 23E                |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                            | Hazard<br>class | Identifica-<br>tion<br>Numbers | Pack-<br>ing<br>group | Labels            | Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173 ***) |                                |                        | (9)<br>Quantity limitations   |                        | (10)<br>Vessel stowage requirements |                             |
|--------------|------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|-------------------|-----------------------|------------------------------------------------|--------------------------------|------------------------|-------------------------------|------------------------|-------------------------------------|-----------------------------|
|              |                                                                                          |                 |                                |                       |                   |                       | Excep-<br>tions                                | Non-<br>bulk<br>pack-<br>aging | Bulk<br>pack-<br>aging | Passenger<br>aircraft<br>only | Cargo aircraft<br>only | Vessel<br>Stow-<br>age              | Other stowage<br>provisions |
| (1)          | (2)                                                                                      | (3)             | (4)                            | (5)                   | (6)               | (7)                   | (8A)                                           | (8B)                           | (8C)                   | (9A)                          | (9B)                   | (10A)                               | (10B)                       |
|              | Bombs with flammable liquid, with bursting<br>charge.                                    | 1.2J            | UN0400                         | II                    | EXPLOSIVE<br>1.2J |                       | 63(b)                                          | 62                             | None                   | Forbidden                     | Forbidden              | E                                   | 7E, 16E, 23E                |
|              | Boosters, without detonator                                                              | 1.1D            | UN0042                         | II                    | EXPLOSIVE<br>1.1D |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Boosters, without detonator                                                              | 1.2D            | UN0263                         | II                    | EXPLOSIVE<br>1.2D |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Burstors, explosive                                                                      | 1.1D            | UN0043                         | II                    | EXPLOSIVE<br>1.1D |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges, flash                                                                        | 1.1G            | UN0049                         | II                    | EXPLOSIVE<br>1.1G |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges, flash                                                                        | 1.3G            | UN0050                         | II                    | EXPLOSIVE<br>1.3G |                       |                                                | 62                             | None                   | Forbidden                     | 75kg                   | B                                   |                             |
|              | Cartridges for weapons, blank                                                            | 1.1C            | UN0326                         | II                    | EXPLOSIVE<br>1.1C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons, blank                                                            | 1.2C            | UN0413                         | II                    | EXPLOSIVE<br>1.2C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons, blank; (Cartridges,<br>small arms, blank)                        | 1.3C            | UN0327                         | II                    | EXPLOSIVE<br>1.3C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons, blank; (Cartridges,<br>small arms, blank)                        | 1.4C            | UN0336                         | II                    | EXPLOSIVE<br>1.4C |                       |                                                | 62                             | None                   | Forbidden                     | 75kg                   | A                                   | 24E                         |
|              | Cartridges for weapons, blank; (Cartridges,<br>small arms, blank)                        | 1.4S            | UN0014                         | II                    | EXPLOSIVE<br>1.4S |                       |                                                | 62                             | None                   | 25kg                          | 100kg                  | A                                   | 9E                          |
|              | Cartridges for weapons, inert projectile (car-<br>tridges, small arms)                   | 1.2C            | UN0328                         | II                    | EXPLOSIVE<br>1.2C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons; inert projectile (car-<br>tridges, small arms), other than blank | 1.4S            | UN0012                         | II                    | EXPLOSIVE<br>1.4S |                       |                                                | 62                             | None                   | 25kg                          | 100kg                  | A                                   | 9E                          |
|              | Cartridges for weapons, inert projectile (car-<br>tridges, small arms)                   | 1.4C            | UN0339                         | II                    | EXPLOSIVE<br>1.4C |                       |                                                | 62                             | None                   | Forbidden                     | 75kg                   | B                                   |                             |
|              | Cartridges for weapons, inert projectile (car-<br>tridges, small arms)                   | 1.3C            | UN0417                         | II                    | EXPLOSIVE<br>1.3C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons, with bursting charge                                             | 1.1F            | UN0005                         | II                    | EXPLOSIVE<br>1.1F |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | E                                   |                             |
|              | Cartridges for weapons, with bursting charge                                             | 1.2F            | UN0007                         | II                    | EXPLOSIVE<br>1.2F |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | E                                   |                             |
|              | Cartridges for weapons, with bursting charge                                             | 1.4F            | UN0348                         | II                    | EXPLOSIVE<br>1.4F |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | E                                   |                             |
|              | Cartridges for weapons, with bursting charge                                             | 1.4E            | UN0412                         | II                    | EXPLOSIVE<br>1.4E |                       |                                                | 62                             | None                   | Forbidden                     | 75kg                   | A                                   | 24E                         |
|              | Cartridges for weapons, with bursting charge                                             | 1.1E            | UN0006                         | II                    | EXPLOSIVE<br>1.1E |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges for weapons, with bursting charge                                             | 1.2E            | UN0321                         | II                    | EXPLOSIVE<br>1.2E |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges, oil well                                                                     | 1.3C            | UN0277                         | II                    | EXPLOSIVE<br>1.3C |                       |                                                | 62                             | None                   | Forbidden                     | Forbidden              | B                                   |                             |
|              | Cartridges, oil well                                                                     | 1.4C            | UN0278                         | II                    | EXPLOSIVE<br>1.4C |                       |                                                | 62                             | None                   | Forbidden                     | 75kg                   | A                                   | 24E                         |
|              | Cartridges, power device                                                                 | 1.3C            | UN0275                         | II                    | EXPLOSIVE<br>1.3C | 110                   | 63(e)                                          | 62                             | None                   | Forbidden                     | 75kg                   | B                                   |                             |
|              | Cartridges, power device                                                                 | 1.4C            | UN0276                         | II                    | EXPLOSIVE<br>1.4C | 110                   |                                                | 62                             | None                   | Forbidden                     | 75kg                   | A                                   | 24E                         |

| Sym-<br>bole | Hazardous materials descriptions and proper shipping<br>names | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels               | Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.155) |                                |                        | (9)<br>Quantity limitations        |                        | (10)<br>Vessel storage requirements |                             |
|--------------|---------------------------------------------------------------|-----------------|--------------------------------|-----------------------|----------------------|-----------------------|------------------------------------------------|--------------------------------|------------------------|------------------------------------|------------------------|-------------------------------------|-----------------------------|
|              |                                                               |                 |                                |                       |                      |                       | Excep-<br>tions                                | Non-<br>bulk<br>pack-<br>aging | Bulk<br>pack-<br>aging | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only | Vessel<br>Stow-<br>age              | Other storage<br>provisions |
| (1)          | (2)                                                           | (3)             | (4)                            | (5)                   | (6)                  | (7)                   | (8A)                                           | (8B)                           | (8C)                   | (9A)                               | (9B)                   | (10A)                               | (10B)                       |
|              | Cartridges, power devices .....                               | 1.2C            | UN0381                         | II                    | EXPLOSIVE<br>1.2C    |                       | 63(e)                                          | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Cartridges, power devices .....                               | 1.4S            | UN0323                         | II                    | EXPLOSIVE<br>1.4S    | 110 .....             |                                                | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                             | 9E                          |
|              | Cartridges, signal .....                                      | 1.3G            | UN0054                         | II                    | EXPLOSIVE<br>1.3G    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | B .....                             |                             |
|              | Cartridges, signal .....                                      | 1.4G            | UN0312                         | II                    | EXPLOSIVE<br>1.4G    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                             | 24E                         |
|              | Cartridges, signal .....                                      | 1.4S            | UN0405                         | II                    | EXPLOSIVE<br>1.4S    |                       |                                                | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                             | 9E                          |
| D            | Cartridges, small arms .....                                  | ORM-D           | None                           | III                   | None .....           | 112 .....             | 63(f)                                          | None                           | None                   | 65lbs gross .....                  | 65lbs gross .....      | A .....                             |                             |
|              | Cases, cartridge, empty with primer .....                     | 1.4S            | UN0055                         | II                    | EXPLOSIVE<br>1.4S    |                       |                                                | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                             | 9E                          |
|              | Cases, cartridges, empty with primer .....                    | 1.4C            | UN0379                         | II                    | EXPLOSIVE<br>1.4C    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                             | 24E                         |
|              | Cases, combustible, empty, without primer .....               | 1.3C            | UN0447                         | II                    | EXPLOSIVE<br>1.3C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Cases, combustible, empty, without primer .....               | 1.4C            | UN0446                         | II                    | EXPLOSIVE<br>1.4C    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                             | 24E                         |
|              | Charges, bursting, plastics bonded .....                      | 1.1D            | UN0457                         | II                    | EXPLOSIVE<br>1.1D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, bursting, plastics bonded .....                      | 1.2D            | UN0458                         | II                    | EXPLOSIVE<br>1.2D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, bursting, plastics bonded .....                      | 1.4D            | UN0459                         | II                    | EXPLOSIVE<br>1.4D    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                             | 24E                         |
|              | Charges, bursting, plastics bonded .....                      | 1.4S            | UN0460                         | II                    | Explosive 1.4S ..... |                       |                                                | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                             | 9E                          |
|              | Charges, demolition .....                                     | 1.1D            | UN0048                         | II                    | EXPLOSIVE<br>1.1D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, depth .....                                          | 1.1D            | UN0056                         | II                    | EXPLOSIVE<br>1.1D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             | 3E, 7E                      |
|              | Charges, explosive, commercial without deto-<br>nator .....   | 1.1D            | UN0442                         | II                    | EXPLOSIVE<br>1.1D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, explosive, commercial without deto-<br>nator .....   | 1.2D            | UN0443                         | II                    | EXPLOSIVE<br>1.2D    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, explosive, commercial without deto-<br>nator .....   | 1.4D            | UN0444                         | II                    | EXPLOSIVE<br>1.4D    |                       |                                                | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                             | 24E                         |
|              | Charges, explosive, commercial without deto-<br>nator .....   | 1.4S            | UN0445                         | II                    | EXPLOSIVE<br>1.4S    |                       |                                                | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                             | 9E                          |
|              | Charges, propelling, for cannon .....                         | 1.2C            | UN0414                         | II                    | EXPLOSIVE<br>1.2C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             | 1E, 5E                      |
|              | Charges, propelling, for cannon .....                         | 1.3C            | UN0242                         | II                    | EXPLOSIVE<br>1.3C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             | 1E, 5E                      |
|              | Charges, propelling, for cannon .....                         | 1.1C            | UN0279                         | II                    | EXPLOSIVE<br>1.1C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             | 1E, 5E                      |
|              | Charges, propelling, for rocket motors .....                  | 1.1C            | UN0271                         | II                    | EXPLOSIVE<br>1.1C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, propelling, for rocket motors .....                  | 1.3C            | UN0272                         | II                    | EXPLOSIVE<br>1.3C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |
|              | Charges, propelling, for rocket motors .....                  | 1.2C            | UN0415                         | II                    | EXPLOSIVE<br>1.2C    |                       |                                                | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                             |                             |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                                                | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels            | Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.203) |                                | (9)<br>Quantity limitations         |                        | (10)<br>Vessel stowage requirements |                             |
|--------------|--------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|-------------------|-----------------------|------------------------------------------------|--------------------------------|-------------------------------------|------------------------|-------------------------------------|-----------------------------|
|              |                                                                                                              |                 |                                |                       |                   |                       | Excep-<br>tions                                | Non-<br>bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railcar | Cargo aircraft<br>only | Vessel<br>Stow-<br>age              | Other stowage<br>provisions |
| (1)          | (2)                                                                                                          | (3)             | (4)                            | (5)                   | (6)               | (7)                   | (8A)                                           | (8B)                           | (9A)                                | (9B)                   | (10A)                               | (10B)                       |
|              | Charges, propelling, for rocket motors, com-<br>posite mixture.                                              | 1.1C            | UN0273                         | II                    | EXPLOSIVE<br>1.1C |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, propelling, for rocket motors, com-<br>posite mixture.                                              | 1.3C            | UN0274                         | II                    | EXPLOSIVE<br>1.3C |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, propelling, for rocket motors, com-<br>posite mixture.                                              | 1.2C            | UN0418                         | II                    | EXPLOSIVE<br>1.2C |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, shaped, commercial without delon-<br>tar.                                                           | 1.2D            | UN0439                         | II                    | EXPLOSIVE<br>1.2D |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, shaped, commercial without delon-<br>tar.                                                           | 1.4D            | UN0440                         | II                    | EXPLOSIVE<br>1.4D |                       |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Charges, shaped, commercial without delon-<br>tar.                                                           | 1.4S            | UN0441                         | II                    | EXPLOSIVE<br>1.4S |                       |                                                | 62                             | 25kg                                | 100kg                  | A                                   | 9E                          |
|              | Charges, shaped, commercial, without delo-<br>nator.                                                         | 1.1D            | UN0059                         | II                    | EXPLOSIVE<br>1.1D |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, shaped, flexible, linear.                                                                           | 1.4D            | UN0237                         | II                    | EXPLOSIVE<br>1.4D |                       |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Charges, shaped, flexible, linear.                                                                           | 1.1D            | UN0288                         | II                    | EXPLOSIVE<br>1.1D | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Charges, supplementary explosive                                                                             | 1.1D            | UN0060                         | II                    | EXPLOSIVE<br>1.1D | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | B                                   | 1E, 5E                      |
|              | Components, explosive train, n.o.s.                                                                          | 1.2B            | UN0382                         | II                    | EXPLOSIVE<br>1.2B | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | B                                   | 1E, 6E                      |
|              | Components, explosive train, n.o.s.                                                                          | 1.4B            | UN0383                         | II                    | EXPLOSIVE<br>1.4B | 101                   |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Components, explosive train, n.o.s.                                                                          | 1.4S            | UN0384                         | II                    | EXPLOSIVE<br>1.4S | 101                   |                                                | 62                             | 25kg                                | 100kg                  | A                                   | 9E                          |
|              | Components, explosive train, n.o.s.                                                                          | 1.1B            | UN0461                         | II                    | EXPLOSIVE<br>1.1B | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | B                                   | 1E, 6E                      |
|              | Contrivances, water-activated, with burster,<br>expelling charge or propelling charge.                       | 1.2L            | UN0248                         | II                    | EXPLOSIVE<br>1.2L | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | E                                   | 2E, 8E, 11E,<br>17E         |
|              | Contrivances, water-activated, with burster,<br>expelling charge or propelling charge.                       | 1.3L            | UN0249                         | II                    | EXPLOSIVE<br>1.3L | 101                   |                                                | 62                             | Forbidden                           | Forbidden              | E                                   | 2E, 8E, 11E,<br>17E         |
|              | Cord, detonating, flexible                                                                                   | 1.1D            | UN0065                         | II                    | EXPLOSIVE<br>1.1D | 102                   | 63(a)                                          | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Cord, detonating, flexible                                                                                   | 1.4D            | UN0289                         | II                    | EXPLOSIVE<br>1.4D |                       |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Cord (Fuse), detonating, metal clad.                                                                         | 1.2D            | UN0102                         | II                    | EXPLOSIVE<br>1.2D |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Cord (Fuse), detonating, metal clad.                                                                         | 1.1D            | UN0290                         | II                    | EXPLOSIVE<br>1.1D |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   |                             |
|              | Cord (Fuse), detonating, mild effect metal<br>clad.                                                          | 1.4D            | UN0104                         | II                    | EXPLOSIVE<br>1.4D |                       |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Cord, igniter                                                                                                | 1.4G            | UN0066                         | II                    | EXPLOSIVE<br>1.4G |                       |                                                | 62                             | Forbidden                           | 75kg                   | A                                   | 24E                         |
|              | Cutters, cable, explosive                                                                                    | 1.4S            | UN0070                         | II                    | EXPLOSIVE<br>1.4S |                       |                                                | 62                             | 25kg                                | 100kg                  | A                                   | 9E                          |
|              | Cyclohexanediethylenetetramine (HMX; Oc-<br>togen), wetted with not less than 15 per<br>cent water, by mass. | 1.1D            | UN0226                         | II                    | EXPLOSIVE<br>1.1D |                       |                                                | 62                             | Forbidden                           | Forbidden              | B                                   | 1E, 5E                      |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                                                                                                                                                                                                                                                                                                           | Hazard<br>class | Identifica-<br>tion<br>Numbers | Pack-<br>ing<br>group | Labels             | Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.33) |      |      | (9)<br>Quantity limitations |                                    | (10)<br>Vessel stowage requirements |                        |                             |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|--------------------|-----------------------|-----------------------------------------------|------|------|-----------------------------|------------------------------------|-------------------------------------|------------------------|-----------------------------|
|              |                                                                                                                                                                                                                                                                                                                                                                         |                 |                                |                       |                    |                       | Excep-<br>tions                               | (8A) | (8B) | (8C)                        | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only              | Vessel<br>Stow-<br>age | Other stowage<br>provisions |
| (1)          | (2)                                                                                                                                                                                                                                                                                                                                                                     | (3)             | (4)                            | (5)                   | (6)                | (7)                   |                                               |      |      | (9A)                        | (9B)                               | (10A)                               | (10B)                  |                             |
|              | Cyclotetramethylenetetranitramine; (Octogen; HMX), desensitized.                                                                                                                                                                                                                                                                                                        | 1.1D            | UN0484                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 5E                      |
|              | Cyclotrimethylenetrinitramine (Cyclonite; Hexogen; RDX), and Cyclotetramethylenetetranitramine (HMX; Octogen) mixtures, wetted with not less than 15 per cent water by mass, or Cyclotrimethylenetrinitramine (Cyclonite; Hexogen; RDX) and Cyclotetramethylenetetranitramine (HMX; Octogen) mixtures desensitized with not less than 10 per cent phlegmatizer by mass. | 1.1D            | UN0391                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 5E                      |
|              | Cyclotrimethylenetrinitramine; (Cyclonite; Hexogen; RDX), desensitized.                                                                                                                                                                                                                                                                                                 | 1.1D            | UN0483                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 5E                      |
|              | Cyclotrimethylenetrinitramine (Cyclonite; Hexogen; RDX) wetted with not less than 15 per cent water, by mass.                                                                                                                                                                                                                                                           | 1.1D            | UN0072                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 5E                      |
|              | Deflagrating metal salts of aromatic nitroderivatives, n.o.s.                                                                                                                                                                                                                                                                                                           | 1.3C            | UN0132                         | II                    | EXPLOSIVE<br>1.3C. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 5E                      |
|              | Detonator assemblies, non-electric for blasting.                                                                                                                                                                                                                                                                                                                        | 1.1B            | UN0360                         | II                    | EXPLOSIVE<br>1.1B. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 2E, 6E                  |
|              | Detonator assemblies, non-electric, for blasting.                                                                                                                                                                                                                                                                                                                       | 1.4B            | UN0361                         | II                    | EXPLOSIVE<br>1.4B. |                       |                                               |      | 62   | None                        | Forbidden                          | 75kg                                | A                      | 1E, 2E, 6E, 24E             |
|              | Detonators, electric, for blasting.                                                                                                                                                                                                                                                                                                                                     | 1.1B            | UN0030                         | II                    | EXPLOSIVE<br>1.1B. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      |                             |
|              | Detonators, electric, for blasting.                                                                                                                                                                                                                                                                                                                                     | 1.4B            | UN0255                         | II                    | EXPLOSIVE<br>1.4B. |                       |                                               |      | 62   | None                        | Forbidden                          | 75kg                                | A                      | 24E                         |
|              | Detonators, electric for blasting.                                                                                                                                                                                                                                                                                                                                      | 1.4S            | UN0456                         | II                    | EXPLOSIVE<br>1.4S. |                       |                                               |      | 62   | None                        | 25 kg                              | 100 kg                              | A                      | 9E                          |
|              | Detonators for ammunition.                                                                                                                                                                                                                                                                                                                                              | 1.1B            | UN0073                         | II                    | EXPLOSIVE<br>1.1B. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 2E, 6E, 25E                 |
|              | Detonators for ammunition.                                                                                                                                                                                                                                                                                                                                              | 1.2B            | UN0364                         | II                    | EXPLOSIVE<br>1.2B. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 2E, 6E                      |
|              | Detonators for ammunition.                                                                                                                                                                                                                                                                                                                                              | 1.4B            | UN0365                         | II                    | EXPLOSIVE<br>1.4B. |                       |                                               |      | 62   | None                        | Forbidden                          | 75kg                                | A                      | 24E                         |
|              | Detonators for ammunition.                                                                                                                                                                                                                                                                                                                                              | 1.4S            | UN0366                         | II                    | EXPLOSIVE<br>1.4S. |                       |                                               |      | 62   | None                        | 25kg                               | 100kg                               | A                      | 9E                          |
|              | Detonators, non-electric, for blasting.                                                                                                                                                                                                                                                                                                                                 | 1.1B            | UN0029                         | II                    | EXPLOSIVE<br>1.1B. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 2E, 6E                  |
|              | Detonators, non-electric, for blasting.                                                                                                                                                                                                                                                                                                                                 | 1.4B            | UN0267                         | II                    | EXPLOSIVE<br>1.4B. |                       |                                               |      | 62   | None                        | Forbidden                          | 75kg                                | B                      |                             |
|              | Detonators, non-electric for blasting.                                                                                                                                                                                                                                                                                                                                  | 1.4S            | UN0455                         | II                    | EXPLOSIVE<br>1.4S. |                       |                                               |      | 62   | None                        | 25 kg                              | 100 kg                              | A                      | 9E                          |
|              | Diazodinitrophenol, wetted with not less than 40 per cent water or mixture of alcohol and water, by mass.                                                                                                                                                                                                                                                               | 1.1A            | UN0074                         | II                    | EXPLOSIVE<br>1.1A. | 111                   |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | E                      | 2E, 6E                      |
|              | Diethyleneglycol dinitrate, desensitized with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass.                                                                                                                                                                                                                                              | 1.1D            | UN0075                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      | 1E, 4E, 21E                 |
|              | Dinitroglycoluril (dingu).                                                                                                                                                                                                                                                                                                                                              | 1.1D            | UN0489                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               |      | 62   | None                        | Forbidden                          | Forbidden                           | B                      |                             |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names                         | (3)<br>Hazard<br>class | (4)<br>Identifica-<br>tion<br>Numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels      | (7)<br>Special<br>provisions | (8)<br>Packaging authorizations<br>(173...) |                                        |                                | (9)<br>Quantity limitations                 |                                | (10)<br>Vessel stowage requirements |                                      |
|---------------------|----------------------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|--------------------|------------------------------|---------------------------------------------|----------------------------------------|--------------------------------|---------------------------------------------|--------------------------------|-------------------------------------|--------------------------------------|
|                     |                                                                                              |                        |                                       |                              |                    |                              | Excep-<br>tions<br>(8A)                     | Non-<br>bulk<br>pack-<br>aging<br>(8B) | Bulk<br>packag-<br>ing<br>(8C) | Passenger<br>aircraft or<br>railcar<br>(9A) | Cargo aircraft<br>only<br>(9B) | Vessel<br>Stow-<br>age<br>(10A)     | Other storage<br>provisions<br>(10B) |
| D                   | Dinitrophenolates alkali metals, dry or wetted<br>with less than 15 per cent water, by mass. | 1.3C                   | UN0077                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, M2                           |
|                     | Dinitrophenol, dry or wetted with less than 15<br>per cent water, by mass.                   | 1.1D                   | UN0078                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, M2                           |
|                     | Dinitroresorcinol, dry or wetted with less than<br>15 per cent water, by mass.               | 1.1D                   | UN0078                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Dinitrosobenzene                                                                             | 1.3C                   | UN0408                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Dipicryl sulfide, dry or wetted with less than<br>10 per cent water, by mass.                | 1.1D                   | UN0401                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 19E                          |
|                     | Explosive, blasting, type A                                                                  | 1.1D                   | UN0081                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 19E,<br>21E                  |
|                     | Explosive, blasting, type B                                                                  | 1.1D                   | UN0082                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 19E                          |
|                     | Explosive, blasting, type B or Explosive,<br>agent blasting, Type B.                         | 1.5D                   | UN0331                                | II                           | EXPLOSIVE<br>1.5D. | 105, 108                     |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 19E                          |
|                     | Explosive, blasting, type C                                                                  | 1.1D                   | UN0083                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 22E                          |
|                     | Explosive, blasting, type D                                                                  | 1.1D                   | UN0084                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Explosive, blasting, type E                                                                  | 1.1D                   | UN0241                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E, 19E                          |
|                     | Explosive, blasting, type E or Explosive, agent<br>blasting, Type E.                         | 1.5D                   | UN0332                                | II                           | EXPLOSIVE<br>1.5D. | 105, 108                     |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Explosive pest control devices                                                               | 1.1E                   | NA0008                                | II                           | EXPLOSIVE<br>1.1E. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   |                                      |
|                     | Explosive pest control devices                                                               | 1.4E                   | NA0412                                | II                           | EXPLOSIVE<br>1.4E. |                              |                                             | 62                                     | None                           | Forbidden                                   | 75 kg                          | A                                   | 24E                                  |
|                     | Fireworks                                                                                    | 1.1G                   | UN0333                                | II                           | EXPLOSIVE<br>1.1G. | 108                          |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
| D                   | Fireworks                                                                                    | 1.2G                   | UN0334                                | II                           | EXPLOSIVE<br>1.2G. | 108                          |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Fireworks                                                                                    | 1.3G                   | UN0335                                | II                           | EXPLOSIVE<br>1.3G. | 108                          |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Fireworks                                                                                    | 1.4G                   | UN0336                                | II                           | EXPLOSIVE<br>1.4G. | 108                          |                                             | 62                                     | None                           | Forbidden                                   | 75kg                           | A                                   | 24E                                  |
|                     | Fireworks                                                                                    | 1.4S                   | UN0337                                | II                           | EXPLOSIVE<br>1.4S. | 108                          |                                             | 62                                     | None                           | 25kg                                        | 100kg                          | A                                   | 9E                                   |
|                     | Flares, aerial                                                                               | 1.3G                   | UN0083                                | II                           | EXPLOSIVE<br>1.3G. |                              |                                             | 62                                     | None                           | Forbidden                                   | 75kg                           | B                                   |                                      |
|                     | Flares, aerial                                                                               | 1.4G                   | UN0403                                | II                           | EXPLOSIVE<br>1.4G. |                              |                                             | 62                                     | None                           | Forbidden                                   | 75kg                           | A                                   | 24E                                  |
|                     | Flares, aerial                                                                               | 1.4S                   | UN0404                                | II                           | EXPLOSIVE<br>1.4S. |                              |                                             | 62                                     | None                           | 25kg                                        | 100kg                          | A                                   | 9E                                   |
|                     | Flares, aerial                                                                               | 1.1G                   | UN0420                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Flares, aerial                                                                               | 1.2G                   | UN0421                                | II                           | EXPLOSIVE<br>1.2G. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Flares surface                                                                               | 1.1G                   | UN0418                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                             | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names         | Hazard<br>class | Identifica-<br>tion<br>Numbers | Pack-<br>ing<br>group | Labels             | Special<br>provisions | (6) Exemptions<br>(§ 173.33) |                                |                        | (9) Quantity limitations           |                        | (10) Vessel storage requirements |                             |
|--------------|-----------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|--------------------|-----------------------|------------------------------|--------------------------------|------------------------|------------------------------------|------------------------|----------------------------------|-----------------------------|
|              |                                                                       |                 |                                |                       |                    |                       | Excep-<br>tions              | Non-<br>bulk<br>pack-<br>aging | Bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only | Vessel<br>Stow-<br>age           | Other storage<br>provisions |
| (1)          | (2)                                                                   | (3)             | (4)                            | (5)                   | (6)                | (7)                   | (8A)                         | (8B)                           | (8C)                   | (9A)                               | (9B)                   | (10A)                            | (10B)                       |
|              | Flares, surface .....                                                 | 1.2G            | UN0419                         | II                    | EXPLOSIVE<br>1.2G. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Flares, surface .....                                                 | 1.3G            | UN0092                         | II                    | EXPLOSIVE<br>1.3G. |                       |                              | 62                             | None                   | Forbidden .....                    | 75kg .....             | B .....                          |                             |
|              | Flash powder .....                                                    | 1.1G            | UN0094                         | II                    | EXPLOSIVE<br>1.1G. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          | 1E, 5E                      |
|              | Flash powder .....                                                    | 1.3G            | UN0305                         | II                    | EXPLOSIVE<br>1.3G. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          | 1E, 5E                      |
|              | Fracturing devices, explosive, without detona-<br>tors for oil wells. | 1.1D            | UN0099                         | II                    | EXPLOSIVE<br>1.1D. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Fuse, igniter tubular metal clad .....                                | 1.4G            | UN0103                         | II                    | EXPLOSIVE<br>1.4G. |                       |                              | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                          | 24E                         |
|              | Fuse, instantaneous, non-detonating (Quick-<br>match).                | 1.3G            | UN0101                         | II                    | EXPLOSIVE<br>1.3G. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Fuse, safety .....                                                    | 1.4S            | UN0105                         | II                    | EXPLOSIVE<br>1.4S. |                       |                              | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                          | 9E                          |
|              | Fuzes, detonating .....                                               | 1.1B            | UN0106                         | II                    | EXPLOSIVE<br>1.1B. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          | 2E, 6E                      |
|              | Fuzes, detonating .....                                               | 1.2B            | UN0107                         | II                    | EXPLOSIVE<br>1.2B. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          | 2E, 6E                      |
|              | Fuzes, detonating .....                                               | 1.4B            | UN0257                         | II                    | EXPLOSIVE<br>1.4B. |                       |                              | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                          | 24E                         |
|              | Fuzes, detonating .....                                               | 1.4S            | UN0367                         | II                    | EXPLOSIVE<br>1.4S. |                       |                              | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                          | 9E                          |
|              | Fuzes, detonating, with protective features .....                     | 1.1D            | UN0408                         | II                    | EXPLOSIVE<br>1.1D. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Fuzes, detonating, with protective features .....                     | 1.2D            | UN0409                         | II                    | EXPLOSIVE<br>1.2D. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Fuzes, detonating, with protective features .....                     | 1.4D            | UN0410                         | II                    | EXPLOSIVE<br>1.4D. |                       |                              | 62                             | None                   | Forbidden .....                    | 75kg .....             | A .....                          | 24E                         |
|              | Fuzes, igniting .....                                                 | 1.3G            | UN0316                         | II                    | EXPLOSIVE<br>1.3G. |                       |                              | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Fuzes, igniting .....                                                 | 1.4G            | UN0317                         | II                    | EXPLOSIVE<br>1.4G. |                       |                              | 62                             | None                   | Forbidden .....                    | 75kg .....             | B .....                          |                             |
|              | Fuzes, igniting .....                                                 | 1.4S            | UN0368                         | II                    | EXPLOSIVE<br>1.4S. |                       |                              | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                          | 9E                          |
|              | Grenades, hand or rifle, with bursting charge .....                   | 1.1D            | UN0284                         | II                    | EXPLOSIVE<br>1.1D. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Grenades, hand or rifle, with bursting charge .....                   | 1.2D            | UN0285                         | II                    | EXPLOSIVE<br>1.2D. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |
|              | Grenades, hand or rifle, with bursting charge .....                   | 1.1F            | UN0292                         | II                    | EXPLOSIVE<br>1.1F. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | Forbidden .....        | E .....                          |                             |
|              | Grenades, hand or rifle, with bursting charge .....                   | 1.2F            | UN0293                         | II                    | EXPLOSIVE<br>1.2F. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | Forbidden .....        | E .....                          |                             |
|              | Grenades practice Hand or rifle .....                                 | 1.4G            | UN0452                         | II                    | EXPLOSIVE<br>1.4G. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | 75kg .....             | B .....                          |                             |
|              | Grenades, practice, hand or rifle .....                               | 1.4S            | UN0110                         | II                    | EXPLOSIVE<br>1.4S. |                       | 63(b)                        | 62                             | None                   | 25kg .....                         | 100kg .....            | A .....                          | 9E                          |
|              | Grenades, practice, hand or rifle .....                               | 1.3G            | UN0318                         | II                    | EXPLOSIVE<br>1.3G. |                       | 63(b)                        | 62                             | None                   | Forbidden .....                    | Forbidden .....        | B .....                          |                             |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names                                                                             | (3)<br>Hazard<br>Class | (4)<br>Identifi-<br>cation<br>Numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels      | (7)<br>Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.33) |                                        |                                | (9)<br>Quantity limitations                 |                                | (10)<br>Vessel stowage requirements |                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|--------------------|------------------------------|-----------------------------------------------|----------------------------------------|--------------------------------|---------------------------------------------|--------------------------------|-------------------------------------|--------------------------------------|
|                     |                                                                                                                                                  |                        |                                       |                              |                    |                              | Excep-<br>tions<br>(8A)                       | Non-<br>bulk<br>pack-<br>aging<br>(8B) | Bulk<br>packag-<br>ing<br>(8C) | Passenger<br>aircraft or<br>railcar<br>(8A) | Cargo aircraft<br>only<br>(8B) | Vessel<br>Stow-<br>age<br>(10A)     | Other stowage<br>provisions<br>(10B) |
| D                   | Grenades, practice, hand or rifle                                                                                                                | 1.2G                   | UN0372                                | II                           | EXPLOSIVE<br>1.2G. |                              | 63(b)                                         | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Guanyl nitrosaminoguanilydene hydrazine,<br>wetted with not less than 30 per cent<br>water, by mass.                                             | 1.1A                   | UN0113                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Guanyl nitrosaminoguanilytetrazene (Tetra-<br>zene), wetted with not less than 30 per<br>cent water or mixture of alcohol and water,<br>by mass. | 1.1A                   | UN0114                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Hexanitrodiphenylamine (Dipicrylamine;<br>Hexyl).                                                                                                | 1.1D                   | UN0079                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Hexanitrostilbene                                                                                                                                | 1.1D                   | UN0392                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Hexatonal, cast                                                                                                                                  | 1.1D                   | UN0393                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Hexolite, dry or wetted with less than 15 per<br>cent water, by mass.                                                                            | 1.1D                   | UN0118                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Igniters                                                                                                                                         | 1.1G                   | UN0121                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Igniters                                                                                                                                         | 1.2G                   | UN0314                                | II                           | EXPLOSIVE 1.2      |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Igniters                                                                                                                                         | 1.3G                   | UN0315                                | II                           | EXPLOSIVE<br>1.3G. |                              |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | A                                   |                                      |
|                     | Igniters                                                                                                                                         | 1.4G                   | UN0325                                | II                           | EXPLOSIVE<br>1.4G. |                              |                                               | 62                                     | None                           | Forbidden                                   | 75kg                           | A                                   | 24E                                  |
|                     | Igniters                                                                                                                                         | 1.4S                   | UN0454                                | II                           | EXPLOSIVE<br>1.4S. |                              |                                               | 62                                     | None                           | 25kg                                        | 100kg                          | A                                   | 9E                                   |
|                     | Jet perforating guns, charged oil well, without<br>detonator.                                                                                    | 1.1D                   | UN0124                                | II                           | EXPLOSIVE 1.D      |                              | 63(g)                                         | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   |                                      |
|                     | Jet perforating guns, charged oil well, without<br>detonator.                                                                                    | 1.4D                   | NA0124                                | II                           | EXPLOSIVE<br>1.4D. | 114                          | 63(g)                                         | 62                                     | None                           | Forbidden                                   | Forbidden                      | A                                   | 24E                                  |
| D                   | Lead azide, wetted with not less than 20 per<br>cent water or mixture of alcohol and water,<br>by mass.                                          | 1.1A                   | UN0129                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Lead mononitrosorcinic acid                                                                                                                      | 1.1A                   | NA0473                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Lead styphnate (Lead trinitrosorcinic acid),<br>wetted with not less than 20 per cent water<br>or mixture of alcohol and water, by mass.         | 1.1A                   | UN0130                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Lighters, fuse                                                                                                                                   | 1.4S                   | UN0131                                | II                           | EXPLOSIVE<br>1.4S. |                              |                                               | 62                                     | None                           | 25kg                                        | 100kg                          | A                                   | 9E                                   |
| D                   | Mannitol hexanitrate (Nitromannite), wetted<br>with not less than 40 percent water, by<br>mass or mixture of alcohol and water.                  | 1.1A                   | NA0133                                | II                           | EXPLOSIVE<br>1.1A. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | E                                   | 1E, 5E                               |
|                     | Mannitol hexanitrate (Nitromannite), wetted<br>with not less than 40 per cent water, or<br>mixture of alcohol and water, by mass.                | 1.1D                   | UN0133                                | II                           | EXPLOSIVE<br>1.1D. | 111                          |                                               | 62                                     | None                           | Forbidden                                   | Forbidden                      | B                                   | 1E, 5E                               |
|                     | 5-Mercapto-tetrazol-1-acetic acid                                                                                                                | 1.4C                   | UN0448                                | II                           | EXPLOSIVE<br>1.4C. |                              |                                               | 62                                     | None                           | Forbidden                                   | 75kg                           | A                                   | 1E, 5E, 24E                          |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                                                                                                                                                                                                  | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels                     | Special<br>provisions | (8) Packaging authorizations<br>(§ 173.101) |                                |                        | (9) Quantity limitations           |                        | (10) Vessel stowage requirements |                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|----------------------------|-----------------------|---------------------------------------------|--------------------------------|------------------------|------------------------------------|------------------------|----------------------------------|-----------------------------|
|              |                                                                                                                                                                                                                                                                |                 |                                |                       |                            |                       | Excep-<br>tions                             | Non-<br>bulk<br>packag-<br>ing | Bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railer | Cargo aircraft<br>only | Vessel<br>Stow-<br>age           | Other stowage<br>provisions |
| (1)          | (2)                                                                                                                                                                                                                                                            | (3)             | (4)                            | (5)                   | (6)                        | (7)                   | (8A)                                        | (8B)                           | (8C)                   | (9A)                               | (9B)                   | (10A)                            | (10B)                       |
|              | Mercury fulminate, wetted with not less than 20 per cent water, or mixture of alcohol and water, by mass.<br>Mines with bursting charge                                                                                                                        | 1.1A            | UN0135                         | II                    | EXPLOSIVE<br>1.1A.         | 111                   |                                             | 62                             | None                   | Forbidden                          | Forbidden              | E                                | 2E, 6E                      |
|              | Mines with bursting charge                                                                                                                                                                                                                                     | 1.1F            | UN0136                         | II                    | EXPLOSIVE<br>1.1F.         |                       | 63(b)                                       | 62                             | None                   | Forbidden                          | Forbidden              | E                                |                             |
|              | Mines with bursting charge                                                                                                                                                                                                                                     | 1.1D            | UN0137                         | II                    | EXPLOSIVE<br>1.1D.         |                       | 63(b)                                       | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 3E, 7E                      |
|              | Mines with bursting charge                                                                                                                                                                                                                                     | 1.2D            | UN0138                         | II                    | EXPLOSIVE<br>1.2D.         |                       | 63(b)                                       | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 3E, 7E                      |
|              | Mines with bursting charge                                                                                                                                                                                                                                     | 1.2F            | UN0294                         | II                    | EXPLOSIVE<br>1.2F.         |                       | 63(b)                                       | 62                             | None                   | Forbidden                          | Forbidden              | E                                |                             |
|              | 5-Nitrobenzotriazole                                                                                                                                                                                                                                           | 1.1D            | UN0385                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E, 19E                 |
|              | Nitrocellulose, dry or wetted with less than 25 per cent water (or alcohol), by mass.                                                                                                                                                                          | 1.1D            | UN0340                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 4E, 27E                     |
|              | Nitrocellulose, plasticized with not less than 18 per cent plasticizing substance, by mass.                                                                                                                                                                    | 1.3C            | UN0343                         | II                    | EXPLOSIVE<br>1.3C.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Nitrocellulose, unmodified or plasticized with less than 18 per cent plasticizing substance, by mass.                                                                                                                                                          | 1.1D            | UN0341                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 4E, 27E                     |
|              | Nitrocellulose, wetted with not less than 25 per cent alcohol, by mass.                                                                                                                                                                                        | 1.3C            | UN0342                         | II                    | EXPLOSIVE<br>1.3C.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Nitroglycerin, desensitized with not less than 40 per cent non-volatile water insoluble phlegmatizer, by mass.                                                                                                                                                 | 1.1D            | UN0143                         | II                    | EXPLOSIVE<br>1.1D, POISON. |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 4E, 21E                 |
|              | Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 10 per cent nitroglycerin.                                                                                                                                                      | 1.1D            | UN0144                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 4E, 21E                 |
|              | Nitroguanidine (Picrite), dry or wetted with less than 20 per cent water, by mass.                                                                                                                                                                             | 1.1D            | UN0282                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Nitrosoguanidine                                                                                                                                                                                                                                               | 1.1A            | NA0473                         | II                    | EXPLOSIVE<br>1.1A.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | E                                | 2E, 6E                      |
|              | Nitrostarch, dry or wetted with less than 20 per cent water, by mass.                                                                                                                                                                                          | 1.1D            | UN0146                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Nitrotriazolone; (NTO)                                                                                                                                                                                                                                         | 1.1D            | UN0490                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E, 25E                 |
|              | Nitro urea                                                                                                                                                                                                                                                     | 1.1D            | UN0147                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Octolite (Octol), dry or wetted with less than 15 per cent water, by mass.                                                                                                                                                                                     | 1.1D            | UN0266                         | II                    | EXPLOSIVE<br>1.1D.         | 104                   |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Pentaerythritol tetranitrate (Pentaerythritol tetranitrate; PETN) wetted with not less than 25 per cent water, by mass, or Pentaerythritol tetranitrate (Pentaerythritol tetranitrate; PETN) desensitized with not less than 15 per cent phlegmatizer by mass. | 1.1A            | NA0150                         | II                    | EXPLOSIVE<br>1.1A.         | 111                   |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |
|              | Pentaerythritol tetranitrate; Pentaerythritol tetranitrate (PETN) with not less than 7 per cent wax by mass.                                                                                                                                                   | 1.1D            | UN0411                         | II                    | EXPLOSIVE<br>1.1D.         |                       |                                             | 62                             | None                   | Forbidden                          | Forbidden              | B                                | 1E, 5E                      |

D

D

| Sym-bols | Hazardous materials descriptions and proper shipping names                        | Hazard class | Identification Numbers | Pack-ing group | Labels          | Special provisions | (B) Packaging authorizations (§ 173 *** ) |                     |                 | (9) Quantity limitations     |                     | (10) Vessel stowage requirements |                          |
|----------|-----------------------------------------------------------------------------------|--------------|------------------------|----------------|-----------------|--------------------|-------------------------------------------|---------------------|-----------------|------------------------------|---------------------|----------------------------------|--------------------------|
|          |                                                                                   |              |                        |                |                 |                    | Excep-tions                               | Non-bulk packag-ing | Bulk packag-ing | Passenger aircraft or raicar | Cargo aircraft only | Vessel Stow-age                  | Other stowage provisions |
| (1)      | (2)                                                                               | (3)          | (4)                    | (5)            | (6)             | (7)                | (6A)                                      | (6B)                | (6C)            | (6A)                         | (6B)                | (10A)                            | (10B)                    |
|          | Pentolite, dry or wetted with less than 15 per cent water, by mass.               | 1.1D         | UN0151                 | II             | EXPLOSIVE 1.1D. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 1E, 5E                   |
|          | Potassium salts of aromatic nitro-derivatives, explosive.                         | 1.3C         | UN0158                 | II             | EXPLOSIVE 1.3C. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 1E, 5E                   |
|          | Powder cake: (powder paste) wetted with not less than 17 percent alcohol by mass. | 1.1C         | UN0433                 | II             | EXPLOSIVE 1.1C. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 1E, 5E                   |
|          | Powder cake (powder paste) wetted with not less than 25 per cent water, by mass.  | 1.3C         | UN0159                 | II             | EXPLOSIVE 1.3C. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 1E, 5E                   |
|          | Powder, smokeless.                                                                | 1.1C         | UN0160                 | II             | EXPLOSIVE 1.1C. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 10E, 26E                 |
|          | Powder, smokeless.                                                                | 1.3C         | UN0161                 | II             | EXPLOSIVE 1.3C. |                    | 63(c)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 10E, 26E                 |
|          | Primers, cap type                                                                 | 1.4S         | UN0044                 | II             | Explosive 1.4S. |                    |                                           | 62                  | None            | 25 kg                        | 100 kg              | A                                | 9E                       |
|          | Primers, cap type                                                                 | 1.1B         | UN0377                 | II             | EXPLOSIVE 1.1B. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                | 2E, 6E                   |
|          | Primers, cap type                                                                 | 1.4B         | UN0378                 | II             | EXPLOSIVE 1.4B. |                    |                                           | 62                  | None            | Forbidden                    | 75kg                | B                                |                          |
|          | Primers, tubular                                                                  | 1.3G         | UN0319                 | II             | EXPLOSIVE 1.3G. |                    |                                           | 62                  | None            | Forbidden                    | Forbidden           | B                                |                          |
|          | Primers, tubular                                                                  | 1.4G         | UN0320                 | II             | EXPLOSIVE 1.4G. |                    |                                           | 62                  | None            | Forbidden                    | 75 kg               | A                                | 24E                      |
|          | Primers, tubular                                                                  | 1.4S         | UN0376                 | II             | EXPLOSIVE 1.4S. |                    |                                           | 62                  | None            | 25 kg                        | 100kg               | A                                | 9E                       |
|          | Projectiles, inert with tracer                                                    | 1.4S         | UN0345                 | II             | EXPLOSIVE 1.4S. |                    | 63(b)                                     | 62                  | None            | 25kg                         | 100kg               | A                                | 3E, 7E, 9E               |
|          | Projectiles, inert, with tracer                                                   | 1.3G         | UN0424                 | II             | EXPLOSIVE 1.3G. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 3E, 7E                   |
|          | Projectiles, inert, with tracer                                                   | 1.4G         | UN0425                 | II             | EXPLOSIVE 1.4G. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | 75kg                | A                                | 3E, 7E, 24E              |
|          | Projectiles, with burster or expelling charge                                     | 1.2D         | UN0346                 | II             | EXPLOSIVE 1.2D. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 3E, 7E                   |
|          | Projectiles, with burster or expelling charge                                     | 1.4D         | UN0347                 | II             | EXPLOSIVE 1.4D. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | 75kg                | A                                | 3E, 7E, 24E              |
|          | Projectiles, with burster or expelling charge                                     | 1.2F         | UN0426                 | II             | EXPLOSIVE 1.2F. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | E                                |                          |
|          | Projectiles, with burster or expelling charge                                     | 1.4F         | UN0427                 | II             | EXPLOSIVE 1.4F. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | E                                |                          |
|          | Projectiles, with burster or expelling charge                                     | 1.2G         | UN0434                 | II             | EXPLOSIVE 1.2G. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 3E, 7E                   |
|          | Projectiles, with burster or expelling charge                                     | 1.4G         | UN0435                 | II             | EXPLOSIVE 1.4G. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | 75kg                | A                                | 3E, 7E, 24E              |
|          | Projectiles, with bursting charge                                                 | 1.1F         | UN0167                 | II             | EXPLOSIVE 1.1F. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | E                                |                          |
|          | Projectiles, with bursting charge                                                 | 1.1D         | UN0168                 | II             | EXPLOSIVE 1.1D. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 3E, 7E                   |
|          | Projectiles, with bursting charge                                                 | 1.2D         | UN0169                 | II             | EXPLOSIVE 1.2D. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | B                                | 3E, 7E                   |
|          | Projectiles, with bursting charge                                                 | 1.2F         | UN0324                 | II             | EXPLOSIVE 1.2F. |                    | 63(b)                                     | 62                  | None            | Forbidden                    | Forbidden           | E                                |                          |

| Sym-<br>bole | Hazardous materials descriptions and proper shipping<br>names                 | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels             | Special<br>provisions | (8) Packaging authorizations<br>(§ 173.141) |                                |                        | (9) Quantity limitations            |                        | (10) Vessel stowage requirements |                             |
|--------------|-------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|--------------------|-----------------------|---------------------------------------------|--------------------------------|------------------------|-------------------------------------|------------------------|----------------------------------|-----------------------------|
|              |                                                                               |                 |                                |                       |                    |                       | Excep-<br>tions                             | Non-<br>bulk<br>pack-<br>aging | Bulk<br>pack-<br>aging | Passenger<br>aircraft or<br>railcar | Cargo aircraft<br>only | Vessel<br>Stow-<br>age           | Other stowage<br>provisions |
| (1)          | (2)                                                                           | (3)             | (4)                            | (5)                   | (6)                | (7)                   | (8A)                                        | (8B)                           | (8C)                   | (9A)                                | (9B)                   | (10A)                            | (10B)                       |
|              | Projectiles, with bursting charge                                             | 1.4D            | UN0344                         | II                    | EXPLOSIVE<br>1.4D. |                       | 83(b)                                       | 62                             | None                   | Forbidden                           | 75kg                   | A                                | 3E, 7E, 24E                 |
| D            | Propellant explosive, liquid                                                  | 1.1C            | NA0474                         | II                    | EXPLOSIVE<br>1.1C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                | 1E, 5E                      |
| D            | Propellant explosive, liquid                                                  | 1.3C            | NA0477                         | II                    | EXPLOSIVE<br>1.3C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                | 1E, 5E                      |
| D            | Propellant explosive, solid                                                   | 1.1C            | NA0273                         | II                    | EXPLOSIVE<br>1.1C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
| D            | Propellant explosive, solid                                                   | 1.3C            | NA0274                         | II                    | EXPLOSIVE<br>1.3C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Release devices, explosive                                                    | 1.4S            | UN0173                         | II                    | EXPLOSIVE<br>1.4S. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 24E                         |
|              | Rivets, explosive                                                             | 1.4S            | UN0174                         | II                    | EXPLOSIVE<br>1.4S. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | A                                | 9E                          |
|              | Rocket motors                                                                 | 1.3C            | UN0186                         | II                    | EXPLOSIVE<br>1.3C. | 109                   | 83(d)                                       | 62                             | None                   | Forbidden                           | 220kg                  | B                                | 9E                          |
|              | Rocket motors                                                                 | 1.1C            | UN0280                         | II                    | EXPLOSIVE<br>1.1C. | 109                   | 83(d)                                       | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Rocket motors                                                                 | 1.2C            | UN0281                         | II                    | EXPLOSIVE<br>1.2C. | 109                   | 83(d)                                       | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Rocket motors, liquid fueled                                                  | 1.2J            | UN0395                         | II                    | EXPLOSIVE<br>1.2J. | 109                   | 83(d), 83(e)                                | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 7E, 16E, 23E                |
|              | Rocket motors, liquid fueled                                                  | 1.3J            | UN0396                         | II                    | EXPLOSIVE<br>1.3J. | 109                   | 83(d), 83(e)                                | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 7E, 16E, 23E                |
|              | Rocket motors with hypergolic liquids with or<br>without an expelling charge. | 1.3L            | UN0250                         | II                    | EXPLOSIVE<br>1.3L. | 109                   | 83(d)                                       | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 11E,<br>17E         |
|              | Rocket motors with hypergolic liquids with or<br>without an expelling charge. | 1.2L            | UN0322                         | II                    | EXPLOSIVE<br>1.2L. | 109                   | 83(d)                                       | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 2E, 8E, 11E,<br>17E         |
|              | Rockets, line throwing                                                        | 1.4G            | UN0453                         | II                    | EXPLOSIVE<br>1.4G. |                       |                                             | 62                             | None                   | Forbidden                           | 75 kg                  | B                                |                             |
|              | Rockets, line-throwing                                                        | 1.2G            | UN0236                         | II                    | EXPLOSIVE<br>1.2G. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Rockets, line-throwing                                                        | 1.3G            | UN0240                         | II                    | EXPLOSIVE<br>1.3G. |                       |                                             | 62                             | None                   | Forbidden                           | 75 kg                  | B                                |                             |
|              | Rockets, liquid fueled with bursting charge                                   | 1.2J            | UN0398                         | II                    | EXPLOSIVE<br>1.2J. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 7E, 16E, 23E                |
|              | Rockets, liquid-fueled with bursting charge                                   | 1.1J            | UN0397                         | II                    | EXPLOSIVE<br>1.1J. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                | 7E, 16E, 23E                |
|              | Rockets, with bursting charge                                                 | 1.1F            | UN0180                         | II                    | EXPLOSIVE<br>1.1F. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                |                             |
|              | Rockets, with bursting charge                                                 | 1.1E            | UN0181                         | II                    | EXPLOSIVE<br>1.1E. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                |                             |
|              | Rockets, with bursting charge                                                 | 1.2E            | UN0182                         | II                    | EXPLOSIVE<br>1.2E. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Rockets, with bursting charge                                                 | 1.2F            | UN0295                         | II                    | EXPLOSIVE<br>1.2F. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | E                                |                             |
|              | Rockets, with expelling charge                                                | 1.2C            | UN0436                         | II                    | EXPLOSIVE<br>1.2C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |
|              | Rockets, with expelling charge                                                | 1.3C            | UN0437                         | II                    | EXPLOSIVE<br>1.3C. |                       |                                             | 62                             | None                   | Forbidden                           | Forbidden              | B                                |                             |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names                    | (3)<br>Hazard<br>class | (4)<br>Identifi-<br>cation<br>Numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels      | (7)<br>Special<br>provisions | (8)<br>Packaging authorizations<br>(§173.33) |                                        |                                | (9)<br>Quantity limitations                |                                | (10)<br>Vessel stowage requirements |                                      |
|---------------------|-----------------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|--------------------|------------------------------|----------------------------------------------|----------------------------------------|--------------------------------|--------------------------------------------|--------------------------------|-------------------------------------|--------------------------------------|
|                     |                                                                                         |                        |                                       |                              |                    |                              | Excep-<br>tions<br>(8A)                      | Non-<br>bulk<br>packag-<br>ing<br>(8B) | Bulk<br>packag-<br>ing<br>(8C) | Passenger<br>aircraft or<br>raider<br>(9A) | Cargo aircraft<br>only<br>(9B) | Vessel<br>Stow-<br>age<br>(10A)     | Other stowage<br>provisions<br>(10B) |
| (1)                 | Rockets, with <i>expelling charge</i> .....                                             | 1.4C                   | UN0438                                | II                           | EXPLOSIVE<br>1.4C. |                              |                                              | 62                                     | None                           | Forbidden                                  | 75 kg                          | A                                   | 24E                                  |
|                     | Rockets, with <i>inert head</i> .....                                                   | 1.3C                   | UN0183                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Signal devices, hand .....                                                              | 1.4G                   | UN0191                                | II                           | EXPLOSIVE<br>1.4G. |                              |                                              | 62                                     | None                           | Forbidden                                  | 75kg                           | A                                   | 24E                                  |
|                     | Signal devices, hand .....                                                              | 1.4S                   | UN0373                                | II                           | EXPLOSIVE<br>1.4S. |                              |                                              | 62                                     | None                           | 25 kg                                      | 100 kg                         | A                                   | 9E                                   |
|                     | Signals, distress, ship .....                                                           | 1.1G                   | UN0194                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Signals, distress, ship .....                                                           | 1.3G                   | UN0195                                | II                           | EXPLOSIVE<br>1.3G. |                              |                                              | 62                                     | None                           | Forbidden                                  | 75 kg                          | B                                   |                                      |
|                     | Signals, railway track, explosive .....                                                 | 1.1G                   | UN0192                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Signals, railway track, explosive .....                                                 | 1.4S                   | UN0193                                | II                           | EXPLOSIVE<br>1.4S. |                              |                                              | 62                                     | None                           | 25 kg                                      | 100 kg                         | A                                   | 9E                                   |
|                     | Signals, smoke .....                                                                    | 1.1G                   | UN0196                                | II                           | EXPLOSIVE<br>1.1G. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Signals, smoke .....                                                                    | 1.2G                   | UN0313                                | II                           | EXPLOSIVE<br>1.2G. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Signals, smoke .....                                                                    | 1.4G                   | UN0197                                | II                           | EXPLOSIVE<br>1.4G. |                              |                                              | 62                                     | None                           | Forbidden                                  | 75kg                           | A                                   | 24E                                  |
|                     | Signals, smoke .....                                                                    | 1.3G                   | UN0487                                | II                           | EXPLOSIVE<br>1.3G. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 7E, 25E                          |
|                     | Sodium dinitro-o-cresolate, dry or wetted with<br>less than 15 per cent water, by mass. | 1.3C                   | UN0234                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 5E, M2                           |
|                     | Sodium picramate, dry or wetted with less<br>than 20 per cent water, by mass.           | 1.3C                   | UN0235                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Sodium salts of aromatic nitro-derivatives,<br>n.o.s.explosive.                         | 1.3C                   | UN0203                                | II                           | EXPLOSIVE<br>1.3C. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Sounding devices, explosive .....                                                       | 1.2F                   | UN0204                                | II                           | EXPLOSIVE<br>1.2F. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   |                                      |
|                     | Sounding devices, explosive .....                                                       | 1.1F                   | UN0296                                | II                           | EXPLOSIVE<br>1.1F. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   |                                      |
|                     | Sounding devices, explosive .....                                                       | 1.1D                   | UN0374                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Sounding devices, explosive .....                                                       | 1.2D                   | UN0375                                | II                           | EXPLOSIVE<br>1.2D. |                              |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   |                                      |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.1L                   | UN0357                                | II                           | EXPLOSIVE<br>1.1L. | 101                          |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   | 2E, 8E, 11E,<br>17E                  |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.2L                   | UN0358                                | II                           | EXPLOSIVE<br>1.2L. | 101                          |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   | 2E, 8E, 11E,<br>17E                  |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.3L                   | UN0359                                | I                            | EXPLOSIVE<br>1.3L. | 101                          |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   | 2E, 8E, 11E,<br>17E                  |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.1A                   | UN0473                                | II                           | EXPLOSIVE<br>1.1A. | 101, 111                     |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | E                                   | 2E, 6E                               |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.1C                   | UN0474                                | II                           | EXPLOSIVE<br>1.1C. | 101                          |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 5E                               |
|                     | Substances, explosive, n.o.s. ....                                                      | 1.1D                   | UN0475                                | II                           | EXPLOSIVE<br>1.1D. | 101                          |                                              | 62                                     | None                           | Forbidden                                  | Forbidden                      | B                                   | 1E, 5E                               |

| (1)<br>Sym-<br>bols | (2)<br>Hazardous materials descriptions and proper shipping<br>names              | (3)<br>Hazard<br>class | (4)<br>Identifi-<br>cation<br>numbers | (5)<br>Pack-<br>ing<br>group | (6)<br>Labels      | (7)<br>Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.24) |                                | (9)<br>Quantity limitations            |                        | (10)<br>Vessel storage requirements |                             |
|---------------------|-----------------------------------------------------------------------------------|------------------------|---------------------------------------|------------------------------|--------------------|------------------------------|-----------------------------------------------|--------------------------------|----------------------------------------|------------------------|-------------------------------------|-----------------------------|
|                     |                                                                                   |                        |                                       |                              |                    |                              | Excep-<br>tions                               | Non-<br>bulk<br>pack-<br>aging | Passenger<br>aircraft or<br>helicopter | Cargo aircraft<br>only | Vessel<br>stor-<br>age              | Other storage<br>provisions |
| (1)                 | (2)                                                                               | (3)                    | (4)                                   | (5)                          | (6)                | (7)                          | (8A)                                          | (8B)                           | (9A)                                   | (9B)                   | (10A)                               | (10B)                       |
|                     | Substances, explosive, n.o.s.                                                     | 1.1G                   | UN0476                                | II                           | EXPLOSIVE<br>1.1G. | 101                          |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 8E                      |
|                     | Substances, explosive, n.o.s.                                                     | 1.3C                   | UN0477                                | II                           | EXPLOSIVE<br>1.3C. | 101                          |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E                      |
|                     | Substances, explosive, n.o.s.                                                     | 1.3G                   | UN0478                                | II                           | EXPLOSIVE<br>1.3G. | 101                          |                                               | 62                             | Forbidden                              | Forbidden              | E                                   | 1E, 8E                      |
|                     | Substances, explosive, n.o.s.                                                     | 1.4C                   | UN0479                                | II                           | EXPLOSIVE<br>1.4C. | 101                          |                                               | 62                             | Forbidden                              | 75kg                   | A                                   | 1E, 5E, 24E                 |
|                     | Substances, explosive, n.o.s.                                                     | 1.4D                   | UN0480                                | II                           | EXPLOSIVE<br>1.4D. | 101                          |                                               | 62                             | Forbidden                              | 75kg                   | A                                   | 1E, 5E, 24E                 |
|                     | Substances, explosive, n.o.s.                                                     | 1.4S                   | UN0481                                | II                           | EXPLOSIVE<br>1.4S. | 101                          |                                               | 62                             | 25kg                                   | 100kg                  | A                                   | 9E                          |
|                     | Substances, explosive, n.o.s.                                                     | 1.4G                   | UN0485                                | II                           | EXPLOSIVE<br>1.4G. | 101                          |                                               | 62                             | Forbidden                              | 75kg                   | A                                   | 1E, 8E, 24E                 |
|                     | Substances, explosive, very insensitive; (sub-<br>stances, EVI), n.o.s.           | 1.5D                   | UN0482                                | II                           | EXPLOSIVE<br>1.5D. | 101                          |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E                      |
|                     | Tetrahydrofuran                                                                   | 1.1D                   | UN0207                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E, 19E                 |
|                     | Tetrahydrofuran                                                                   | 1.4C                   | UN0407                                | II                           | EXPLOSIVE<br>1.4C. |                              |                                               | 62                             | Forbidden                              | 75kg                   | A                                   | 1E, 5E, 24E                 |
|                     | Torpedoes, liquid fuelled, with inert head                                        | 1.3J                   | UN0450                                | II                           | EXPLOSIVE<br>1.3J. |                              | 63(b)                                         | 62                             | Forbidden                              | Forbidden              | E                                   | 7E, 16E, 23E                |
|                     | Torpedoes, liquid fuelled, with or without<br>burning charge                      | 1.1J                   | UN0449                                | II                           | EXPLOSIVE<br>1.1J. |                              | 63(b)                                         | 62                             | Forbidden                              | Forbidden              | E                                   | 7E, 16E, 23E                |
|                     | Torpedoes with burning charge                                                     | 1.1E                   | UN0329                                | II                           | EXPLOSIVE<br>1.1E. |                              | 63(b)                                         | 62                             | Forbidden                              | Forbidden              | B                                   |                             |
|                     | Torpedoes with burning charge                                                     | 1.1F                   | UN0330                                | II                           | EXPLOSIVE<br>1.1F. |                              | 63(b)                                         | 62                             | Forbidden                              | Forbidden              | B                                   |                             |
|                     | Torpedoes with burning charge                                                     | 1.1D                   | UN0451                                | II                           | EXPLOSIVE<br>1.1D. |                              | 63(b)                                         | 62                             | Forbidden                              | Forbidden              | B                                   |                             |
|                     | Tracers for ammunition                                                            | 1.3G                   | UN0212                                | II                           | EXPLOSIVE<br>1.3G. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   |                             |
|                     | Tracers for ammunition                                                            | 1.4G                   | UN0306                                | II                           | EXPLOSIVE<br>1.4G. |                              |                                               | 62                             | Forbidden                              | 75kg                   | A                                   | 24E                         |
|                     | Trinitroanisole or Picramide                                                      | 1.1D                   | UN0153                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E, 19E                 |
|                     | Trinitroanisole                                                                   | 1.1D                   | UN0213                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E, 19E                 |
|                     | Trinitrobenzene, dry or wetted with less than<br>30 per cent water, by mass.      | 1.1D                   | UN0214                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E, 19E                 |
|                     | Trinitrobenzenesulfonic acid                                                      | 1.1D                   | UN0386                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | E                                   | 1E, 5E, 19E                 |
|                     | Trinitrobenzoic acid, dry or wetted with less<br>than 30 per cent water, by mass. | 1.1D                   | UN0215                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E                      |
|                     | Trinitrochlorobenzene; Picryl chloride                                            | 1.1D                   | UN0155                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E                      |
|                     | Trinitro-meta-cresol                                                              | 1.1D                   | UN0216                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E                      |
|                     | Trinitrofluorenone                                                                | 1.1D                   | UN0367                                | II                           | EXPLOSIVE<br>1.1D. |                              |                                               | 62                             | Forbidden                              | Forbidden              | B                                   | 1E, 5E, 19E                 |

| Sym-<br>bols | Hazardous materials descriptions and proper shipping<br>names                                                                      | Hazard<br>class | Identifi-<br>cation<br>Numbers | Pack-<br>ing<br>group | Labels             | Special<br>provisions | (8)<br>Packaging authorizations<br>(§ 173.33) |                                |                        | (9)<br>Quantity limitations         |                        | (10)<br>Vessel stowage requirements |                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|--------------------|-----------------------|-----------------------------------------------|--------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|-----------------------------|
|              |                                                                                                                                    |                 |                                |                       |                    |                       | Excep-<br>tions                               | Non-<br>bulk<br>pack-<br>aging | Bulk<br>packag-<br>ing | Passenger<br>aircraft or<br>railcar | Cargo aircraft<br>only | Vessel<br>Stow-<br>age              | Other stowage<br>provisions |
| (1)          | (2)                                                                                                                                | (3)             | (4)                            | (5)                   | (6)                | (7)                   | (8A)                                          | (8B)                           | (8C)                   | (9A)                                | (9B)                   | (10A)                               | (10B)                       |
|              | Trinitronaphthalene.....                                                                                                           | 1.1D            | UN0217                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E, 19E                 |
|              | Trinitrophenetole.....                                                                                                             | 1.1D            | UN0218                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E, 19E                 |
|              | Trinitrophenol (Picric acid), dry or wetted with<br>less than 30 per cent water, by mass.                                          | 1.1D            | UN0154                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Trinitrophenylmethanimine (Tetryl).....                                                                                            | 1.1D            | UN0208                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Trinitroresorcinol (Syphnic acid), dry or<br>wetted with less than 20 per cent water, or<br>mixture of alcohol and water, by mass. | 1.1D            | UN0219                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Trinitroresorcinol (Syphnic acid), wetted with<br>not less than 20 per cent water, or mixture<br>of alcohol and water by mass.     | 1.1D            | UN0394                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Trinitrotoluene (TNT) and Trinitrobenzene<br>mixtures or Trinitrotoluene (TNT) and Hex-<br>anitrostilbene mixtures.                | 1.1D            | UN0388                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E, 19E                 |
|              | Trinitrotoluene (TNT), dry or wetted with less<br>than 30 per cent water, by mass.                                                 | 1.1D            | UN0209                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Trinitrotoluene (TNT) mixtures containing<br>Trinitrobenzene and Hexanitrostilbene.                                                | 1.1D            | UN0389                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Tritonal.....                                                                                                                      | 1.1D            | UN0390                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Urea nitrate, dry or wetted with less than 20<br>per cent water, by mass.                                                          | 1.1D            | UN0220                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |
|              | Warheads, rocket with burster or expelling<br>charge.                                                                              | 1.4D            | UN0370                         | II                    | EXPLOSIVE<br>1.4D. |                       |                                               | 62                             | None                   | Forbidden....                       | 75kg.....              | A.....                              | 3E, 7E, 24E                 |
|              | Warheads, rocket with burster or expelling<br>charge.                                                                              | 1.4F            | UN0371                         | II                    | EXPLOSIVE<br>1.4F. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | E.....                              |                             |
|              | Warheads, rocket with bursting charge.....                                                                                         | 1.1D            | UN0286                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 3E, 7E                      |
|              | Warheads, rocket with bursting charge.....                                                                                         | 1.2D            | UN0287                         | II                    | EXPLOSIVE<br>1.2D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 3E, 7E                      |
|              | Warheads, rocket with bursting charge.....                                                                                         | 1.1F            | UN0369                         | II                    | EXPLOSIVE<br>1.1F. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | E.....                              |                             |
|              | Warheads, torpedo with bursting charge.....                                                                                        | 1.1D            | UN0221                         | II                    | EXPLOSIVE<br>1.1D. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 3E, 7E                      |
|              | Zirconium picramate, dry or wetted with less<br>than 20 per cent water, by mass.                                                   | 1.3C            | UN0236                         | II                    | EXPLOSIVE<br>1.3C. |                       |                                               | 62                             | None                   | Forbidden....                       | Forbidden....          | B.....                              | 1E, 5E                      |

**§ 173.52 [Corrected]**

3. On page 18461, in Table 1 of paragraph (b) of § 173.52, for the first column entry which begins with "Secondary detonating explosive substance \* \* \*" correct the corresponding second column entry to read "D" and the third column entry to read "1.1D, 1.2D, 1.4D, 1.5D."

**§ 173.62 [Corrected]**

On page 18468, in the first column, in § 173.62 paragraph (b), correct the last two full sentences to read "The second column of the explosives table specifies the packaging method or methods (e.g., US032) which must be used to pack a particular explosive. The table of packaging methods in paragraph (c) of this section defines the packaging methods."

**§ 173.62 [Corrected]**

5. On page 18469, in the third column, in the Explosives Table set forth in paragraph (b) of § 173.62, correct the entry in column 1 of the Explosives Table which reads "UN0745" to read "UN0475".

**§ 173.62 [Corrected]**

6. On page 18469, in the third column, add the following entries after the last entry in the Explosives Table set forth in paragraph (b) of § 173.62:

EXPLOSIVES TABLE

| Identification No. | Packaging Methods |
|--------------------|-------------------|
| (1)                | (2)               |
| [ADD]              |                   |
| UN0485             | US072             |
| UN0486             | US029             |
| UN0487             | US067             |
| UN0488             | US023             |
| UN0489             | US002             |
| UN0499             | US002             |
| NA0150             | US003             |
| NA0273             | US019             |
| NA0274             | US019             |
| NA0474             | US072             |
| NA0477             | US072             |

**§ 173.62 [Corrected]**

7. In the Table of Packaging Methods set forth in paragraph (c) of § 173.62—

- a. On page 18471, add "5" to column 4 to correspond with the entry "US011 (UN-E12)" which appears in column 1.
- b. On page 18474, in column 3 which corresponds to the entry "US041 (UN-

E121)" change the entry "Fiberboard (4C1)" to read "Fiberboard (4G)".

c. On page 18474, in column 4 which corresponds to the entry "US048 (UN-E126)" delete "14".

d. On page 18474, in column 1, change "US047 (UN-3127)" to read "US047 (UN-E127)".

e. On page 18474, in column 3 which corresponds to the entry "US047 (UN-E127)", change "(4A2)" to read "(4A2)".

f. On page 18475, in column 1, change "US058 (UN141)" to read "US058 (UN-E141)".

g. On page 18475, in column 3 which corresponds to the entry "US061 (UN-E145)", change the entry "Fiberboard (4C1)" to read "Fiberboard (4G)" and add the entry "Wood, ordinary (4C1)".

h. On page 18476, remove the information in columns 1 through 4 for the entries "US061 (UN-E145)" and "US062 (UN-E146)".

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Alan I. Roberts,

Director, Office of Hazardous Materials Transportation.

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