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Administration

Identification Numbers, Hazardous
Wastes, Hazardous Substances,
International Descriptions, Improved
Descriptions, Forbidden Materials, and
Organic Peroxides

DEPARTMENT OF TRANSPORTATION**Research and Special Programs Administration**

49 CFR Parts 171, 172, 173, 174, 175, 176, 177

[Docket Nos. HM-118, 126A, 126B, 145A, 145B, 159, and 171; Amdt. Nos. 171-53, 172-58, 173-137, 174-37, 175-16, 176-11, 177-48]

Identification Numbers, Hazardous Wastes, Hazardous Substances, International Descriptions, Improved Descriptions, Forbidden Materials, and Organic Peroxides

AGENCY: Materials Transportation Bureau (MTB), Research and Special Programs Administration, Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: The purpose of this final rule is to dispose of petitions for reconsideration of the final rules published in the May 22, 1980, Federal Register (45 FR 34560) and to make a number of corrections and clarifications to those rules regarding the following subjects:

- (1) A numerical identification system for hazardous materials transported in commerce;
- (2) Regulations pertaining to the transportation of hazardous wastes;
- (3) Regulations pertaining to the identification of, and discharge notifications for, hazardous substances;
- (4) Identification of certain forbidden materials by name and revisions to the general criteria applicable to forbidden materials;
- (5) Proper shipping names for organic peroxides; and
- (6) A requirement for entering on shipping papers the technical names of certain hazardous components of materials covered by n.o.s. entries.

EFFECTIVE DATE: November 20, 1980, unless otherwise specified by the regulations. Shipments may be prepared, offered for transportation, and transported in accordance with the Amendments cited above, as amended herein, upon publication in the Federal Register except for the display of identification numbers on placards as specified in Subpart D of Part 172 which is authorized on and after April 1, 1981.

FOR FURTHER INFORMATION CONTACT: L. Metcalfe (202-426-0656) or Delmer F. Billings (202-426-2075), Standards Division, Office of Hazardous Materials Regulation, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590. Office hours

are 8 a.m. to 4:30 p.m. Eastern Time, Monday through Friday.

SUPPLEMENTARY INFORMATION: This action by the Materials Transportation Bureau (MTB) amends, corrects, and clarifies the final regulations published in the Federal Register on May 22, 1980 (45 FR 34560). It is based on petitions for reconsideration, requests for clarification or interpretations, and errors discovered by MTB and commenters. A number of timely filed petitions were received addressing the final rule. A number of other submissions were received that, while not considered to be formal petitions, were given full consideration by MTB in its decisions concerning the changes made by this publication.

Several petitions received by MTB were considered to be of such major significance as to warrant further public participation prior to MTB's making decisions concerning their disposition. These petitions concerned the display of identification numbers (Docket HM-126A) and the voluntary and mandatory compliance dates in relation thereto; hazardous waste manifests (Docket HM-145A); the definition of hazardous substances (Docket HM-145B); and use of the Optional Table (Docket HM-171). Major portions of these petitions were published in the Federal Register on June 30, 1980 (45 FR 43781) and July 10, 1980 (45 FR 46417). On July 31, 1980, a public hearing concerning these matters was held in Washington, D.C., and more than 50 comments, both oral and written, were received by MTB concerning the particular issues raised by the petitions.

In all, more than 100 petitions, comments, and inquiries were received by MTB relative to the final rules published on May 22, 1980. All have been considered. This preamble first addresses the major issues raised in those petitions, comments and inquiries. All other corrections and amendments are addressed in the succeeding section-by-section discussion. Except as adopted herein, all petitions for reconsideration received by MTB concerning the matters covered by the final rule published on May 22, 1980, are hereby denied.

As stated in the preamble to the rule, the Office of Management and Budget (OMB) must clear the shipping paper and reporting requirements adopted in the rule. Acting under the Federal Reports Act of 1942, on August 21, 1980, OMB approved the incident reporting requirements specified in 49 CFR, Parts 171-177 (OMB approval No. 004-R5613). On September 5, 1980, OMB similarly approved the shipping paper

requirements (OMB approval No. 004-R5750).

Display of Identification Numbers; Docket HM-126A

The Association of American Railroads (AAR), the Southern Railway System (Southern), and the National Tank Truck Carriers, Inc. (NTTC), filed timely petitions for reconsideration pertaining to the display of identification numbers on the exterior of transport vehicles and portable tanks. Substantial portions of the petitions were quoted verbatim in the Federal Registers of June 30 and July 10, 1980.

A variety of positions, many of them conflicting, were taken by the petitioners and commenters concerning the display of identification numbers. They are synopsized as follows:

1. If they are displayed at all, identification numbers should not be displayed on placards; only orange panels should be used.
2. Identification numbers should only be displayed on placards; the orange panel method of display should be eliminated.
3. Identification numbers should be displayed only on placards along with class inscriptions in reduced size lettering.
4. Carriers should not be required to replace identification numbers lost during transportation.
5. The voluntary and mandatory compliance dates for the display of identification numbers do not allow sufficient time to implement training and education programs or to effect compliance with the requirements.
6. The regulations pertaining to the display of identification numbers, as published in the Federal Register on May 22, 1980, should be retained without change.

Generally, the comments synopsized in Item 1 above were received from representatives of the railroad industry; the comments in Item 2 from the motor carrier industry; the comments in Item 3 from some shippers and subsequently from the motor carrier industry; the comments in Item 4 from carriers; the comments in Item 5 from most commenters, except emergency services; and the comments in Item 6 from emergency services.

The positions taken by the petitioners and commenters to the petitions are, to a certain degree, irreconcilable. Taken together they have not made a persuasive argument for any substantial change in the identification number display requirements as published in the final rule. The petitions and comments did, however, point to a number of adjustments that MTB believes will ease

implementation and improve the regulations pertaining to display of identification numbers.

Concerning the method of display of identification numbers; i.e., on orange panels and/or placards, MTB has decided to retain the provisions it adopted in the final rule with certain modifications. Of significance is the change to § 172.332 consolidating the display provisions into a single section, and a revision to § 172.334 to specify the circumstances under which display of identification numbers would be prohibited. In the latter rule, paragraph (e) will prohibit the display of identification numbers on an orange panel on a cargo tank unless it is affixed to the cargo tank by the person offering the hazardous material for transportation. This means carriers operating cargo tanks will not be faced with the multiple choice situation suggested in the NTTC petition. If a shipper does not himself affix the identification numbers to a cargo tank, he must provide the identification numbers on placards under the circumstances that require him to provide placards. MTB, with this modification, believes it has resolved a significant and valid problem raised by the NTTC in its petition.

Several commenters from the railroad industry raised concern about the display of identification numbers on placards as having an adverse impact on compliance with the car handling requirements specified in Part 174. One commenter submitted a chart used by his company to illustrate the requirements for positioning cars containing hazardous materials in trains and for the switching of cars. The positioning chart, which illustrates the requirements in relation to the kind of placard applied, contains the following entries for placards in a column.

EXPLOSIVES A
POISON GAS
RADIOACTIVE
ANY PLACARD OTHER THAN
COMBUSTIBLE
EMPTY—OTHER THAN COMBUSTIBLE
COMBUSTIBLE

The regulation, as adopted, does not authorize the display of identification numbers on EXPLOSIVES, POISON GAS, or RADIOACTIVE placards. A special presentation (white bottom) of the COMBUSTIBLE placard has been adopted if it is to be used for the display of an identification number. Therefore, identification numbers are only allowed to be displayed on those placards described in the chart as ANY PLACARD OTHER THAN COMBUSTIBLE (including EMPTY) and COMBUSTIBLE.

Concerning the training of railroad employees relative to the display of identification numbers on placards, the MTB does not agree with those commenters who suggested that this is an unreasonably burdensome task. Railroad personnel need only be trained to recognize that all cars bearing placards with identification numbers are treated in the same manner except those bearing COMBUSTIBLE placards which will be identified differently. Certainly training will be required to recognize these distinctions.

While orange panels would be required on tanks transporting poison gas and radioactive materials, MTB estimates this mandatory usage will be minimal in relation to the total number of movements of hazardous materials in tanks.

One commenter from a railroad indicated that studies show that currently placards are in place on rail cars in only 77% of the situations where required and that his railroad is replacing 500 placards a month. These statements were made in support of his contention that painting the name of the commodity on a tank car is more reliable, (80%) than any placarding system. The cited study was not submitted to support those statements. Consequently their correctness and value remain doubtful. However, the statements above suggest a need for increased surveillance and enforcement efforts to assure compliance with placarding and marking requirements.

Occasionally placards, which are required to be displayed on both sides and both ends of rail cars, are lost or destroyed during transportation and the same is likely to occur with orange panels. To ease the replacement burden on transportation companies, MTB is modifying § 172.338 to require replacement of identification numbers only when more than one required display is found missing or destroyed during transportation. When only one placard bearing an identification number (if used) is found missing or destroyed, the appropriate class placard (with inscription) may be used. If more than one placard or orange panel bearing an identification number is found missing or destroyed, all would have to be replaced. This is consistent with instructions to emergency services in the forthcoming Emergency Response Guidebook which tells them to check the sides of tanks if they do not see identification numbers on ends. Also, considering the strong interest expressed by motor carriers in utilizing placards for the display of identification numbers, and the limited relief provided

for replacement of identification numbers, MTB has decided to eliminate the exception concerning the display of identification numbers on the forward end of cargo tank trucks and cargo tank semitrailers. Otherwise, it is conceivable that an identification number would not be visible from two directions i.e., the front and one side or the other—an unacceptable situation relative to the display of emergency response information.

MTB has fully considered the comments suggesting that class identification inscriptions should be retained in combination with the display of identification numbers on placards. As an alternative to the orange panel the final rule as published authorized identification numbers to be displayed on placards in 3½" high numerals in space made available by omitting the currently used inscription. The proposed inclusion of inscriptions in the placard display, even though rather small, would require a reduction in the size of the numerals. Also, the inclusion of inscriptions in the same block with the numerals would further diminish effective display of identification numbers at distances greater than 100 feet, while smaller inscriptions would only be readable at distances of less than 50 feet. Representatives of emergency services organizations who commented on this matter stated that they found it desirable to place the greatest emphasis on the visibility of identification numbers and one emphasized that the 3½" size for identification numbers is about twice the size of the lettering for present inscriptions on placards. He also pointed out that fire service emergency personnel depend more on the color of a placard to tell them the class of a hazardous material than the class inscription printed on the placard. In summary, emergency service representatives took the position that using all of the available space on a placard to display the particular commodity identification number as prominently as possible far exceeds the value of showing in that space a class name. MTB agrees and has decided to retain the format adopted in the rule.

A number of commenters requested that additional time be provided for compliance with the requirements pertaining to the display of identification numbers and that voluntary compliance not be permitted prior to July 1, 1981. Their principal argument was the time needed for implementation of training programs. It is in the public interest that the identification system be implemented

without further delay. Nevertheless it is clear that training is important to proper implementation of the system.

Therefore, the voluntary date for display of identification numbers on placards (when authorized) is redesignated as April 1, 1981, and the mandatory date for their display on placards or orange panels is delayed to November 1, 1981. The later date was chosen to allow sufficient time for acquisition and deployment of orange panels or numbered placards and to implement the identification system.

Hazardous Wastes; Docket HM-145A

The National Tank Truck Carriers, Inc. (NTTC) and the American Trucking Associations, Inc. (ATA) petitioned for removal of the Note following subparagraph (3) of § 171.3(c). The Note provides a modification to the statement of inconsistency found in subparagraph (3) which pertains to the imposition of requirements by a State or its political subdivision relative to the format or contents of shipping papers including hazardous waste manifests.

Comments concerning this matter were numerous. Shippers and carriers strongly supported deletion of the Note while several State agencies strongly supported its retention. Merit is to be found in the arguments raised on both sides on this issue. Shippers and carriers maintain that there is a need for national uniformity to preclude impediments to the movement of hazardous materials (wastes) in interstate commerce. The States believe that the manifests they have adopted are essential to the accomplishment of their hazardous waste control systems.

MTB has been involved in the development of hazardous wastes transportation regulations for approximately four years. An MTB representative participated with Environmental Protection Agency (EPA) in a number of public hearings concerning the development of hazardous wastes requirements and heard repeated statements by shipper and carrier representatives expressing the view that the hazardous waste manifest requirements promulgated by the EPA should allow for their assimilation within existing transportation documentation systems. EPA, in its desire to minimize the impact of its hazardous waste transportation requirements, accepted the arguments raised by industry commenters and promulgated limited requirements that merely listed the information that must be displayed on hazardous waste manifests and did not adopt a specific manifest form on format.

It now appears that there is a significant demand for a uniform, Federally mandated format for a hazardous waste manifest. This is not entirely limited to shipper and carriers. Several State officials have expressed a need for a nationally agreed-upon system. MTB agrees that this should be accomplished and has been informed that an industry organization, the Hazardous Materials Advisory Council, is beginning a dialogue with various State officials having a similar concern. Because the prospects for the success of this effort appear favorable, MTB is deferring action on the petitions requesting the deletion of the Note to § 171.3(c) pending the development of an acceptable uniform hazardous waste manifest.

Hazardous Substances; Docket HM-145B

The Association of American Railroads (AAR) and the Southern Railway System (Southern) filed petitions for reconsideration concerning the applicability of the Department's Hazardous Materials Regulations to hazardous substances as published in the Federal Register on May 22, 1980 (45 FR 34580). In that final rule MTB, acting pursuant to its authority under the Hazardous Materials Transportation Act (HMTA), listed all materials identified by EPA as hazardous substances pursuant to Section 311 of the Clean Water Act. However, MTB limited its definition of a hazardous substance in § 171.8 to a reportable quantity in one package, or transport vehicle when not packaged, and to certain concentrations.

The AAR and the Southern petitions requested that the rule be modified to require shippers to notify transporters when several packages of hazardous substances are tendered in one transport vehicle if, in the aggregate, there is an amount equal to or exceeding a reportable quantity of a hazardous substance. Southern "strenuously" objected to the table in § 171.8 associated with the definition of a hazardous substance, and suggested that precise percentages should be furnished by shippers to carriers to determine whether, in fact, a reportable quantity of a hazardous substance contained in a mixture or solution has been spilled.

A public hearing was held on July 31, 1980, to receive comments on the petitions from interested persons. Also, a number of written comments were filed and made a part of the record. Except for comments received from persons representing the views of the railroad industry, virtually all other

comments received in response to the petitions supported the rule as adopted. Based on a review of all the comments received, including the additional comments of the petitioners, MTB has concluded that the hazardous substance rules as adopted under Amendment 171-53 should remain the same, except for minor modifications for purposes of clarification. The rule is sufficiently extensive to address each substance in a quantity and form which may pose an unreasonable risk to health and safety or property when transport in commerce. MTB is satisfied that using the quantity in one package, or in one transport vehicle when not packaged, and percentages in mixtures or solutions provided the optimum method of limiting the application of rules issued under HMTA for reporting purposes. MTB has received concurrence from EPA concerning this decision as evidenced by EPA's publication in the Federal Register on September 17, 1980 (45 FR 61617) relative to the applicability of 40 CFR Part 117 to common carriers.

It has been pointed out to MTB that certain petroleum products such as unleaded gasoline may contain hazardous substances in reportable quantities when transported in cargo tanks and tank cars. Such materials were never intended to be covered by the hazardous substances spill reporting regulations since they are presently covered by the oil discharge regulations of the U.S. Coast Guard and the EPA. Therefore, a provision has been added to the definition of a hazardous substance excluding petroleum products that are lubricants or fuels.

International Descriptions; Docket HM-171

The Association of American Railroads (AAR) and the Southern Railway System (Southern) filed petitions requesting elimination of § 172.102 which would allow the use of international descriptions for hazardous materials as adopted by the Intergovernmental Maritime Consultative Organization (IMCO). At the hearing on July 31, 1980, a number of commenters suggested that the Section be deleted in deference to the formation of an industry working group under the leadership of the Bureau of Explosives (AAR). In its written submission, the AAR stated, "The AAR offers to undertake the task of combining the § 172.101 and Optional Tables. In the next year, it should be possible to make a decision as to whether a unified Table is feasible. The AAR therefore proposes that the MTB withdraw the Optional Table and allow the AAR until July 1,

1981, to determine whether a unified Table is attainable."

Several carriers and carrier organizations expressed particular concern about the use of the Optional Table for domestic transportation; especially with regard to tank cars and cargo tanks. They pointed out areas in which there is not direct comparability between the domestic commodity table (Section 172.101) and the Optional Table.

Classifications. IMCO specified classifications and labeling have been authorized for international shipments transported within the United States since adoption of § 171.12 under Docket HM-112 in 1976. There have not been any indications of any serious difficulties in operations conducted under that authority. Therefore, it must be assumed that the principal concerns of the petitioners and commenters are with the use of the differing classifications authorized by § 172.102 for purely domestic transportation. Moreover, removal of the alternative classifications authorized by § 171.12 for international shipments would be legally beyond the scope of the rulemaking under Docket HM-171. Accordingly, the provision with reference to the Optional Table in § 172.102 is being retained in order that such classifications be specifically listed in the DOT regulations.

Descriptions. Prior to the adoption of § 171.12 in 1976, several commenters requested that IMCO descriptions be authorized along with IMCO labels and classifications. MTB did not adopt the provision because the IMCO list was not generally available to or in the possession of carriers and enforcement personnel in the United States. The same is true today and is one of the principal reasons for publication of the § 172.102 Optional Table. MTB has decided to retain the Optional Table, but limit the use of the descriptions therein to international shipments involving transportation by vessels. The descriptions will not be authorized in connection with shipments aboard aircraft based on comments from operators of aircraft referring to potential difficulty in determining compliance with the quantity limitations specified in § 172.101 and alignment with international requirements. Further consideration will be given to such an authorization following the adoption of dangerous goods requirements by the International Civil Aviation Organization (ICAO).

One comment of special note spoke to so-called "land-bridge" operations which involve the movement of freight containers in international commerce by

ocean voyage, coast-to-coast movement by rail, and a subsequent ocean voyage. That commenter, a carrier, suggested that shipments will be re-marked according to Section 172.101 if they are identified in accordance with the Optional Table. MTB assumes that the principal concern here is with the entries on shipping documents. MTB does not believe carriers should be placed in a position of having to accept (or cause a delay in the acceptance of) packages containing hazardous materials that are not marked with descriptions exactly as specified in § 172.101, if they are marked in accordance with the IMCO Code consistent with Rule 4 of the Safety of Life at Sea Convention. For this reason, and to provide a means for vessel loading in conformance with the IMCO Code (Column 7 of the Optional Table), and for the reasons stated in the preamble to the rule, MTB is retaining the Optional Table in Section 172.102 but is limiting its application as discussed above.

MTB accepts the AAR's offer to organize an inter-industry working group to undertake development of a single, integrated table and will reconsider the authorization for the use of the Optional Table, or its elimination, upon receipt of the recommendations from that working group.

The Emergency Response Guidebook

The Emergency Response Guidebook (ERG) that is associated with the rule issued under Docket HM-126A has been completed. MTB has entered into a contractual arrangement with the International Association of Fire Chiefs (IAFC) for distribution of the ERG to emergency services organizations. MTB's principal objective is to have one ERG placed in each police, fire, civil defense, and rescue-squad vehicle in the United States (estimated to be 450,000 vehicles) by November 1, 1981. Initial delivery of 200,000 copies of the ERG to the IAFC for distribution has been accomplished.

The IAFC is cooperating with the International Association of Chiefs of Police and the United States Civil Defense Council relative to distribution of the ERG. The IAFC will make initial distribution to the members of these organizations prior to distribution to other emergency services entities. This will avoid duplication of requests from different levels of emergency services organizations. For example, the chief of a county fire and rescue department responds to the IAFC inquiry, which will be mailed before January 1, 1981, and requests ERG's for all fire and rescue squad vehicles in his county. If he

handles the distribution for his county, it will not be necessary for individual departments in his county to submit separate requests for the ERG.

MTB requests the cooperation of all interested persons relative to distribution of the ERG. It must be emphasized that the IAFC is distributing the ERG only to emergency services organizations engaged in protecting the general public. MTB has been informed that several private firms plan to reproduce and sell the ERG commercially. Commercial firms, organizations and private individuals should not contact the IAFC for copies of the ERG.

Persons representing emergency response entities that have not received copies of the ERG for their vehicles, and have not been contacted by the IAFC, may contact the IAFC after April 1, 1981 by writing to—
International Association of Fire Chiefs,
Attention: ERG, 1329 18th Street, NW.,
Washington, D.C. 20036.

Review By Sections

Section 171.3. Paragraph (d) of this section is revised with the addition of the words "or other hazardous material" at the end of line one to provide for a hazardous material that becomes a hazardous waste if discharged during transportation.

Section 171.7. The mailing address for OPPSD is changed to reflect the new address of the Organic Peroxide Procedures' Safety Division, Society of Plastic Industries.

Section 171.8. In response to several comments, the "Hazardous substance" definition is rewritten for clarification and a definition of "Reportable quantity" is added. A material identified by the letter "E" in Column (1) of the Table becomes a hazardous substance when the quantity in one package, or one transport vehicle when not packaged (bulk), equals or exceeds the reportable quantity indicated for the material in Column (2) of the Table. The "concentration by weight" columns (Percent and PPM) indicate the minimum concentration requiring consideration for determining if a material is a hazardous substance. Thus, for a material having a 1000 pound reportable quantity, a concentration below 2 percent is not considered a hazardous substance. Also excepted from the definition are petroleum products that are lubricants or fuels that are covered by the oil discharge reporting requirements (33 CFR 153.203).

The definition of "Name of contents" is revised to include a reference to § 172.102 which was overlooked in the final rulemaking.

MTB was requested to provide clarification of the requirements for identifying reportable quantities of hazardous substances in a compartmented tank. The terms "package" and "packaging" are defined in § 171.8. Any time a package (compartmented or otherwise) contains a reportable quantity of a hazardous substance, the regulations pertaining to hazardous substances in the subchapter apply.

Section 171.12. The original provisions of paragraph (b) are reinstated with a reference to § 172.102. In addition, the shipping names in § 172.102 are authorized for international shipments involving transportation by vessel.

Section 171.17. The first four lines of paragraph (a) are revised to limit the applicability of the reporting requirement for a hazardous substance to discharges of reportable quantities. An editorial revision to paragraph (c) is made to correct a publication error in the spelling of the word "unremoved" in the fourth line.

Section 172.101. Paragraph (b)(1) is revised to delete the words "including its mixtures and solutions." This revision is based on a petition for reconsideration. MTB reviewed the data and concurs with the recommendation. Several requests for interpretation of paragraph (j) were received and MTB considers it appropriate to clarify the text. Paragraph (c)(10) is revised to specify that the word "Waste" is to be the first word of the proper shipping name if the description in the Table (or Optional Table, when authorized) does not contain the word "waste."

Paragraph (c)(12) is deleted. As written, the requirement would have applied to all packagings including portable tanks, cargo tanks, multi-unit tank car tanks and tank cars which was not intended. The appropriate requirements are contained in §§ 172.203, 172.301 and 172.324.

Paragraph (d)(3) is added to include the limitation previously stated in paragraph (a) of § 173.500 which is deleted. This associates a requirement for the designation of a hazard class with the instructions pertaining to Column (3) of the Table.

Paragraph (g)(1) is added to provide a reference to § 173.510 for the packaging of an ORM-A, B, or C that is a hazardous waste or a hazardous substance and is not required to be packaged under Subparts K, L, or M for a specific mode of transport.

Hazardous Materials Table

Additions and Deletions

MTB is adding twenty-one entries to the Hazardous Materials Table (Table) and is deleting two entries. This action is based on comments received concerning the final rule and/or MTB discussions and review concerning the adequacy of entries in the Table. Several other changes to the entries in the Table have also been made, many of which are editorial.

MTB is adding an entry to the Table for "Ammonium hydroxide (containing less than 12% ammonia)", classed as ORM-A. The entry for "Ammonium hydroxide (containing not more than 44% ammonia)", classed as Corrosive material, is being revised accordingly. Under an MTB contract, skin corrosion tests were conducted using aqueous solutions of ammonium hydroxide containing from 1% to 20% ammonia. The data indicate that a 12% solution is corrosive and a 10% solution is not corrosive. Ammonium hydroxide containing less than 12% ammonia is classed as ORM-A because the material has a pungent odor and can irritate the eyes, skin and mucous membranes. The material is a hazardous substance.

A commenter stated that the identification number listed in the United Nations Recommendations for the Transport of Dangerous Goods for Dinitrotoluene, UN1600, is for dinitrotoluenes in liquid form and that the Table does not contain an entry for dinitrotoluenes in solid form. However, the UN Recommendations do contain a description for dinitrotoluenes in solid form with UN number 2038. MTB agrees and is adding the proper shipping name "Dinitrotoluene, solid" to the Table, assigning it identification number UN2038 and is adding "liquid" to the present entry "Dinitrotoluene" which has the identification number UN1600.

MTB is adding the proper shipping name "Infectious substance, human, n.o.s." to the Table and assigning identification number UN2814. This description is referenced to "Etiologic agent, n.o.s.". Since "Etiologic agent, n.o.s." is not an acceptable description for the international shipment of etiologic agents, the new description should fill the gap and, also, provide an alternate description for domestic shipments.

MTB is adding an entry to the Table for lead sulfate, classed as ORM-E. "Lead sulfate, solid (containing more than 3% free acid)" is listed by name and classed as Corrosive material. Since lead sulfate has been designated a hazardous substance, it is appropriate to include an entry for lead sulfate that is

essentially free of acid and does not meet the definition of any other hazard class.

MTB is adding an entry to the Table "Sodium hydrogen sulfite, solution" classed as Corrosive material. The solid form is listed by name and classed as ORM-B. Previously, solutions of this material meeting the definition for a corrosive material had to be described generically. Since sodium hydrogen sulfite has been designated as a hazardous substance, it is appropriate to include an entry for the material in solution.

A commenter notified MTB that EPA has designated sulfur monochloride as a hazardous substance and not sulfur dichloride, as shown in the Table (i.e., Sulfur chloride (*mono and di*)). MTB agrees. The italicized "and di" portion of the existing description is deleted. A new entry for Sulfur chloride (*di*) is added.

Several commenters expressed concern that a single entry for a hazardous substance that is a pesticide may not be sufficient to cover packaging requirements for various formulated products of that pesticide. Most pesticide entries cover only the technical material. Formulated products are covered only if they are in the same state or form (i.e., solid or liquid) as the technical material. Another description would have to be chosen that allows suitable packaging (e.g., a pesticide description based on family group as per HM-126B). However, if the hazardous substance in the packaged pesticide product equals or exceeds its reportable quantity (RQ), the name of the hazardous substance must appear on the shipping paper in association with the basic description (§ 172.203(c)(1)). This situation is common for hazardous substances with RQ-1/0.454 and RQ-10/4.54. The commenters argue that another entry for each of these hazardous substances should be added to the Table. Thus, an exact description can be used to identify the pesticides regardless of the formulation. This would also aid emergency response personnel responding to an accident. MTB agrees and is adding twelve new entries to the Table. The entries include: (1) Azinphos methyl mixture, liquid; (2) Carbofuran mixture, liquid; (3) Coumaphos mixture, liquid; (4) Dichlorvos mixture, dry; (5) Disulfoton mixture, dry; (6) Disulfoton mixture, liquid; (7) Endosulfan mixture, liquid; (8) Endrin mixture, liquid; (9) Ethion mixture, dry; (10) Guthion mixture, liquid; (11) Mevinphos mixture, dry, and (12) Mevinphos mixture, liquid.

In the preamble to the final rule, MTB stated that "Sodium hydrosulfide, solid" is reclassified as Corrosive material (45 FR

34560, 34577). However, the entry in the Table was not revised and the material remained classed as Flammable solid, as originally proposed in HM-145B. Questions concerning the hazard class lingered. In the interim, the commenter restated his case that the material should be classed as Corrosive material. In addition to skin corrosion data on flaked sodium hydrosulfide containing 25% water of crystallization, the commenter submitted acute toxicity data on the material. Values reported are: oral-rat, LD_{50} = 58.5 mg/kg and skin-rabbit, LD_{50} = 177.8 mg/kg. The acute oral study appears to meet DOT protocol. The acute dermal study does not meet DOT protocol because an insufficient number of rabbits was used in the test. The data indicate that the material is toxic and may meet the DOT definition for Poison B via skin absorption. The commenter stated that his company is the only domestic manufacturer of this material. The company has years of experience and cited a good safety record for shipping the material, classed as Corrosive material. The company has never had a reported case of poisoning caused by the manufacture, handling, and shipment of the material. At the February 1980, meeting of the Group of Rapporteurs of the UN Committee of Experts on the Transport of Dangerous Goods, the Rapporteurs agreed to split up the present entry for sodium hydrosulfide in the UN Recommendations, depending on the water of crystallization present in a sodium hydrosulfide molecule. Water of crystallization apparently is a major factor in determining the hazards associated with sodium hydrosulfide. The Rapporteurs did not mention anything about the toxicity of the material. Accordingly, MTB is adding an entry to the Table for "Sodium hydrosulfide, solid (with not less than 25% water of crystallization)", classed as Corrosive material. The entry for "Sodium hydrosulfide, solid", classed as Flammable solid, has been revised to include water of crystallization in the description.

Diethylzinc is added to the Table but can not be used as a proper shipping name. This entry references Pyrophoric liquid, n.o.s. which is the appropriate shipping name for *Diethylzinc*. At a later date, MTB will consider adding *Diethylzinc* as a proper shipping name since this material is listed by name in the UN Recommendations (see UN1366) and is a recognized international description.

A commenter pointed out that tetraethyl lead is one of many

compounds that can be and are used in the formulation of motor fuel antiknock compounds. Like tetraethyl lead, several of these compounds are hazardous substances (e.g., ethylene dibromide (RQ-1000/454), ethylene dichloride (RQ-5000/2270) and toluene (RQ-1000/454)). The commenter recommended that the description for the antiknock compound containing tetraethyl lead be deleted from the Table and that the basic description for antiknock compound be revised to indicate that the antiknock compound may contain a hazardous substance. MTB agrees and is deleting the entry in the Table for "Motor fuel antiknock compound or Antiknock compound; containing tetraethyl lead (RQ-100/45.4)". The description for "Motor fuel antiknock compound or Antiknock compound (RQ-100/45.4)" is revised accordingly.

MTB is adding a reference for *Delay connectors* to the Table. By error, the reference, which appeared in a final rule on detonators and detonating primers (HM-161; 44 FR 70721), was omitted from the revised Table.

Changes

MTB is changing or adding identification numbers or prefixes for 49 entries, in response to comments. Reportable quantity designations are changed in four entries, and the reportable quantity designation "(RQ-1/.454)" is changed to "(RQ-1/0.454)" wherever it appears. Reportable quantity changes include uranyl nitrate (due to an oversight); phosphorus pentasulfide (due to EPA's downward revision of the reportable quantity; see 44 FR 50777); allyl alcohol and chlorosulfonic acid-sulfur trioxide mixture (for clerical correction).

In eight other entries, an "E" and a reportable quantity designation are added. Of those eight, three are previously overlooked isomers: isobutyl acetate, isobutylamine, and isobutyric acid. Two others, "Sodium potassium alloy, liquid" and "Sodium potassium alloy, solid" are modified because sodium is a hazardous substance previously designated by EPA. "Titanium sulfate solution, containing not more than 45% sulfuric acid" similarly is modified because of the presence of sulfuric acid. The entry "Strychnine, solid" is modified to correct a previous error.

After considering comments concerning the 45 new descriptions for the 15 pesticide groups, MTB is adding the "n.o.s." modifier to these descriptions to improve consistency with international descriptions.

MTB is changing the order of appearance for labeling requirements for

six materials, classed as Poison A, which require the additional label of either Flammable gas or Nonflammable gas. This reflects the fact that the primary label is that of the hazard class.

MTB is modifying the entry "Sulfur chloride (*mono and di*)". The entry in the May 22, 1980, Table indicated that both isomers are hazardous substances, with a reportable quantity of (RQ-1000/454). It was brought to MTB attention that only sulfur monochloride is designated as a hazardous substance by the EPA. Therefore, the entry in the Hazardous Materials Table is changed to reflect this situation. A separate entry is added for sulfur dichloride with only the "*mono*" entry being identified as a hazardous substance.

The entry "Ammonium nitrate-fuel oil mixture, (*containing only prilled ammonium nitrate and fuel oil*)" is modified by deleting the "*See*" reference and completing the line entry as specified for "Blasting agent, n.o.s." This change is made to clarify the fact that the entries for "Ammonium nitrate-fuel oil mixture" and "Blasting agent" reflect different materials and may not be used interchangeably.

For the entries disuloflon, ethion, and mevinphos, the packaging references are changed to reflect packagings for technical grade organophosphorous pesticides in liquid form since these materials are liquids rather than solids.

MTB is modifying the entry for "Sodium bisulfite, solid. *See* Sodium hydrogen sulfite, solid" to include a reference for this material in solution, to reflect the new entry in the Table for "Sodium hydrogen sulfite, solution".

For the entry "Textile treating compound or mixture, liquid", the reference to § 173.245 in Column (5)(b) is deleted as being unnecessary since § 173.249(a) refers to § 173.245.

MTB is making four other nonsubstantive changes to the Table.

Section 172.102. The heading is revised to indicate that this section may be used only for international shipments as explained earlier in this preamble. Revisions also are made to § 172.102(a) and (b) to reflect this limitation. Since there are other uses of parentheses in paragraph (h), MTB believes that an element of possible confusion is eliminated if the parentheses are removed from each italicized hazard class entry. Therefore, the last sentence of the introductory text to paragraph (h) is revised and the parentheses are removed from the italicized hazard class entries.

Questions have been asked relative to the use of the Optional Table. The following example should resolve some of the problem area. "Mercury

compound, n.o.s., solid" is listed in § 172.101, but there is no similar entry for the liquid. Therefore, the appropriate listing for this material in § 172.101 is "Poison B, liquid, n.o.s.". The proper shipping name in § 172.102 is "Mercury compound, n.o.s.", if it is inorganic. The packaging is that prescribed for the "Poison B, liquid, n.o.s." in § 172.101 since all packaging references and limitations for § 172.102 entries are found in § 172.101.

An error in the definition of IMCO Division 3.3 has been corrected by amending the upper flash point limit to include liquids with a flash point of 141° F.

Five minor errors or omissions in the Optional Table are corrected. In addition, one commentator pointed out that the entry "Paint, enamel, lacquer, * * * lacquer base and thinner, etc." should read "Paint, enamel, lacquer, * * * lacquer base or thinner, etc." MTB agrees and is amending the entry accordingly. One commentator requested that the description "Ethyl fluid" be authorized as an alternate proper shipping name for the entry "Motor fuel anti-knock mixtures" as provided in the IMCO Code. MTB recognizes that the description "Ethyl fluid" is authorized under virtually all international hazardous materials transportation regulations whereas "Motor fuel anti-knock mixtures" is not. For this reason, MTB is including the entry "Ethyl fluid" in roman type with a cross reference to the principal IMCO description "Motor fuel anti-knock mixtures."

Numeric-Alpha index. The numeric-Alpha index contained in Appendix A to Subpart B or Part 172 is revised in its entirety to provide necessary corrections and additions.

Section 172.201. To clarify the intent of the requirement in paragraph (a)(1)(iii) an editorial change is made to show that the letters "RQ" required by § 172.203(c)(2) may be entered in the "HM" column in place of the "X" when appropriate, and when so placed will meet the requirements for both the "X" and the "RQ." This editorial change also clarifies the intent that the letters "RQ" are not required to be entered in the "HM" column. This change is based on a request for clarification.

Section 172.202. Paragraph (a) is revised to show that the intent of the regulation is to prescribe four elements for the shipping description, and that the basic description consists of the first three elements of the shipping description. Paragraph (a)(1) is revised to reflect the limitation on the use of the Optional Table. Paragraph (a)(2) is revised to limit the provision allowing

the shipping name to be used as the class designation to instances where shipping names describe only one hazard class. It is believed that an entry such as "Flammable liquid, corrosive, n.o.s." without a showing of the hazard class on a shipping paper would lead to confusion when determining placarding requirements and possible packaging and labeling requirements. Paragraph (a)(3) is revised to correct "preceded." Paragraph (c)(2) is revised to authorize the entry of destination marks on the shipping paper as requested in a petition. MTB believes that allowing such entries will not adversely affect safety and will contribute to the facilitation of commerce.

Section 172.203. Paragraph (c)(1) is revised to clarify the requirement that the names of hazardous substances that are not identified in the proper shipping names must be obtained from § 172.101 and entered on shipping papers in association with the basic description.

Paragraph (e)(1) is revised editorially to delete an inconsistency and to clarify the requirements of the regulation.

Paragraph (i)(2) is revised with the addition of paragraph (iii) to indicate July 1, 1981, as the date on which more than one hazardous material in a mixture must be identified when the proper shipping name does not identify the materials.

The effective date for the requirement in paragraph (j) for entering "Dangerous When Wet" on a shipping paper is delayed to July 1, 1981, to be consistent with other new shipping paper requirements. Paragraphs (k)(1) and (k)(2) are revised to clarify the intent of the regulation.

Section 172.300. This section has been redesignated to provide an applicability section similar to the other subparts in Part 172. The requirements that were in § 172.300 are set forth in § 172.301.

Section 172.301. Paragraph (a) is revised to clarify the requirement that the identification number marking on packages must be preceded by "UN" or "NA" as appropriate unless otherwise prescribed. A provision was included in § 172.202(a)(3), but was omitted in this section. Also, paragraph (a)(1) is added to reference § 172.101(c)(10) and to preclude duplicative marking by adding an exception which allows the EPA marking specified in 40 CFR 262.32 to be used in place of adding the word "waste" to a proper shipping name on a package.

Paragraph (c) is revised for clarification of exceptions from the marking requirements. Paragraph (c)(5), is added to specify a July 1, 1981, effective date to provide additional time to change package markings relative to

proper shipping names adopted or changed by Amendment No. 172-58. Also, a note is added to the section referencing EPA marking requirements for hazardous wastes.

Section 172.302. Paragraph (a) is revised by the addition of a reference to § 172.102 and is corrected to show that more than one technical name may have to be identified in the same manner as required by § 172.203(i)(2). Paragraph (b) is revised to be consistent with § 172.203(i)(2). A new paragraph (c) is added extending the date for compliance to July 1, 1981, relative to showing more than one hazardous material in a mixture.

Section 172.308. The first line of paragraph (a) is revised to indicate that the intent of the restriction against the use of abbreviations is limited to the proper shipping name. In the first line of paragraph (a)(1) the word "on" is changed to "of" to correct an earlier error that was made in HM-112/HM-103 when the requirement was transferred from § 173.400.

Section 172.316. A clarifying phrase is added to the introductory text of paragraph (a) to specify that the ORM marking requirement is applicable only to packagings having a capacity of 110 gallons or less. Paragraph (c) is revised to refer to all of Subpart (C) of Part 172 relative to the applicability of certification requirements.

Section 172.324. The section is revised by changing the section heading to "Hazardous substances" and by revising paragraph (a) by specifying the "proper shipping name" rather than the "basic description." In paragraphs (a) and (b), the addition of the words "having a capacity of 110 gallons or less" to paragraph (b) eliminates the need for an exception in paragraph (c) for portable tanks, cargo tanks and tank cars, and it also excludes vehicles such as hopper cars.

Section 172.326. In subparagraph (a)(2) and paragraph (d), "(when authorized)" is added following the references to § 172.102. A commentator requested deletion of the requirement in paragraph (d) for displaying the identification number on a transport vehicle if the identification number on a portable tank is not visible. MTB is not changing the requirement since the intent of requiring display of identification numbers is to have the numbers visible at all times when hazardous materials are transported in packagings having rated capacities greater than 110 gallons regardless of the transport configuration.

Section 172.328. Paragraph (a) is revised to clarify the regulation to show that § 172.102 may be used only when authorized. Paragraph (a)(1) is revised to

require a person who offers a hazardous material in a cargo tank to provide the required identification numbers on placards or to affix orange panels bearing the required identification numbers unless the cargo tank is already marked for the material in accordance with paragraph (f) of this section or § 173.29(c). Paragraph (b) is revised to clarify the requirement for displaying names of materials on each side and each end of cargo tanks as was previously specified in § 172.328(b).

Section 172.330. Subparagraphs (a)(2), (c)(1) and (e) are revised to add "(when authorized)" after the reference to § 172.102. The introductory text to paragraph (g) is revised to accept tank cars containing residue of combustible liquids from the marking retention requirement consistent with § 174.25(c).

Section 172.332. This section is revised and consolidated with the specifications previously in § 172.334 to place all the identification number presentation requirements in one section. Paragraph (c)(4) requires that the bottom portion of a COMBUSTIBLE placard be white for transportation by railroad and highway if it is used for the display of an identification number. MTB believes it is necessary to provide a distinction between a FLAMMABLE and a COMBUSTIBLE placard because of differing requirements relative to car placement and access to tunnel and bridge facilities.

Section 172.334. This revision includes identification marking prohibitions, some of which were omitted from the rule. Paragraph (a) prohibits display of identification numbers on POISON GAS, RADIOACTIVE and EXPLOSIVES placards. Paragraph (b) prohibits the display of an identification number unless the package, freight container or transport vehicle contains the hazardous material associated with that identification number. Paragraph (c) specifies that only the placard required by § 172.504 may be used for display of an identification number. Paragraph (d) indicates that a placard with an identification number does not accomplish compliance with the placarding requirements unless the identification number is correct for all hazardous materials of the same class in the transport vehicle or freight container. For example, the number to identify acetone in a portable tank is appropriate for identification of the acetone in the portable tank (as required) and also acetone in drums (even though not required). However, the display does not accomplish the placarding requirement if other materials of the Flammable liquid class

(e.g. Acrolein) are loaded in the same vehicle or freight container.

Section 172.336. Subparagraph (b)(1) is added to include a provision for locating an identification number on the plain white square-on-point background for those materials not subject to placarding requirements. Subparagraphs (c)(2) and (c)(3) provide for use of placards bearing GASOLINE and FUEL OIL as authorized by § 172.542(c) and § 172.544(c) respectively instead of display of identification numbers. Subparagraph (c)(4) contains a revision indicating gasoline is considered to be a distillate fuel. Subparagraph (c)(5) provides for display of the identification number of the liquid distillate fuel having the lowest flash point of any liquid distillate fuel carried in a cargo tank. This provision will eliminate the need for continuous changes in identification numbers in many operations where gasoline and fuel oil are transported in the same cargo tank on different trips during the same day.

Section 172.338. This section is revised to require replacement of an identification number when more than one display is lost or destroyed during transportation. In such a situation all required identification numbers must be replaced as soon as practicable. Several commenters mentioned varied colored indelible marking materials. Since all identification numbers are black, only a black indelible marking material will be necessary for entering replacement numerals by hand.

Section 172.400. Paragraph (b)(8) is revised to include a labeling exception for a package containing ORM-E and no other hazardous material that requires a label. This exception was omitted from the rule.

Section 172.407, 172.415, 172.417, 172.419 and 172.423. These sections are revised to provide for labeling in conformance with international requirements. MTB regards several of the label options as significant improvements in presentation. For example, white printing on a green label is much more visible than black printing. Therefore, use of the print color options provided in this revision is encouraged.

Section 172.500. Paragraph (b)(2) is revised to include a placarding exception for packages containing only material classed as ORM-E. This exception was omitted from the rule.

Section 172.516. Paragraph (c)(5) is revised to include a requirement that identification numbers be displayed horizontally on placards. This provision was omitted from the rule.

Section 172.519. The last sentence of paragraph (d) is revised to reference the requirement in § 172.332(c)(4) indicating

when the lower portion of the COMBUSTIBLE placard must be white.

Section 173.8. Paragraph (a) is revised to require that hazardous wastes and hazardous substances transported from Canada to or through the United States must be in compliance with the DOT hazardous materials regulations pertaining to those materials. This revision is considered essential since there are no comparable hazardous substance or hazardous waste requirements in the regulations of the Canadian Transport Commission.

Section 173.21. Paragraph (b)(3) is added for organic peroxides to provide an option for determination of controlled temperature requirements in accordance with the UN Recommendations. United States representatives participated in the UN meetings at which these recommendations were developed and agreed upon. MTB has been advised that shippers of organic peroxides in the United States have been shipping organic peroxides in accordance with the UN recommendations for approximately eight years even though there were no comparable requirements in DOT regulations. In consideration of the good experience resulting from use of the recommendations, MTB believes they should be recognized in the rule as an alternative to the basic limitation specified in paragraph (b).

Section 173.29. Subparagraph (a)(1) is revised for clarity. Paragraph (d) is added to prohibit display of labels and markings (other than specification identification markings) that, if displayed, would indicate the presence of a hazardous material in a package. An exception is provided when closed transport vehicles and freight containers are used and such packages are not handled by transportation and terminal workers during transportation. This latter limitation is accomplished by the condition that loading be performed by the shipper and unloading by the shipper or consignee. As stated, this paragraph also responds to the numerous inquiries MTB has received relative to the display of labels on newly manufactured packagings that are transported to shippers of hazardous materials.

Paragraph (a)(3)(ii) is revised to include contract carriers which were omitted from the rule although discussed in the preamble to the rule.

Section 173.118a. Paragraph (b) is revised to clarify the requirements pertaining to a combustible liquid that is a hazardous substance or a hazardous waste when in a packaging having a rated capacity of 110 gallons or less;

Section 173.245. Paragraph (b) is revised to exclude hazardous wastes

and hazardous substances from the exception contained in this paragraph for materials corrosive only to steel.

Section 173.364. The parenthetical statement at the end of paragraph (a) is revised to correct the omission of the reference to Part 174.

Section 173.500. The information formerly in the Note following paragraph (a) is added as paragraph (d)(3) of § 172.101. A new (revised) note is added to clarify the applicability of certain packaging requirements that are modal specific, thereby precluding the application of new packaging requirements for materials that are hazardous substances and hazardous wastes when transported by modes not referenced. In such cases, the requirements of § 173.510 will apply.

Section 174.25. The Table in paragraph (a)(2) is revised to reflect the placarding change for Explosive C shown in Table 2 of § 172.504. Paragraph (b)(1) is revised to require that hazardous materials be described in the same manner as specified in § 172.202.

Paragraph (c) is revised to correctly show the elements of basic description and to correct the example of the shipping paper entry.

Section 175.45. A proposal to revise paragraph (d) of this section was published in the February 22, 1979, NPRM for HM-145B (44 FR 10676). However, MTB did not adopt the requirement as explained in the preamble to the rule (45 FR 34586). Upon further consideration, MTB recognizes that a discharge of a hazardous substance in a reportable quantity could occur at airport terminals and enter navigable waters. Therefore, MTB has adopted a hazardous substance discharge reporting requirement for operators of aircraft.

Section 177.817. An exception is added to paragraph (b) to maintain the requirement for certification of hazardous waste shipments. This omission was an oversight in the rule resulting in an inconsistency with revised paragraph (b)(1) of § 172.204.

As an aid to the reader, the amendment sequential reference number appearing with the section number in the May 22, 1980, rulemaking is entered in parentheses immediately after the sequence reference number in this rulemaking. For example the § 171.8 amendment was number 5 in the previous rulemaking and is number 3 here. Thus, it appears as "3. (5.) In § 171.8 the definition, etc." Readers are advised that in reviewing the revisions contained in this document, they will have to refer to the May 22, 1980, final rule (45 FR 34580) as well as to 49 CFR, Parts 171-175 and 177 (October 1, 1979).

In consideration of the foregoing, Federal Register Document 80-15510 published May 22, 1980, (45 FR 34580) and Part 175 of Title 49 Code of Federal Regulations are revised and amended as follows:

PART 171—GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS

1. (3.) In § 171.3 the first line of paragraph (d) is revised to read as follows:

§ 171.3 Hazardous waste.

(d) If a discharge of hazardous waste or other hazardous material * * *

§ 171.7 [Amended]

2. (4.) In § 171.7 the mailing address for OPPSD in paragraph (c)(28) is revised to read "355 Lexington Avenue, New York, N.Y. 10017."

3. (5.) In § 171.8 the definition of "Hazardous substance" is revised; the definition of "Name of contents" is revised by adding the words "or § 172.102 (when authorized)" after the reference to § 172.101 in the third line; a definition of "Reportable quantity (RQ)" is added in alphabetical sequence to read as follows:

§ 171.8 Definitions and abbreviations.

"Hazardous substance", for the purposes of this subchapter, means a material, and its mixtures or solutions, that is identified by the letter "E" in Column 1 of the Table to § 172.101 when offered for transportation in one package, or in one transport vehicle if not packaged, and when the quantity of the material therein equals or exceeds the reportable quantity (RQ). This definition does not apply to petroleum products that are lubricants or fuels; or to a mixture or solution containing a material identified by the letter "E" in Column 1 of the Table to § 172.101 if it is in a concentration less than that shown in the following table based on the reportable quantity (RQ) specified for the materials in Column 2 of the Table to § 172.101:

RQ pounds	RQ kilo-grams	Concentration by weight	
		Percent	PPM
5,000	2,270	10	100,000
1,000	454	2	20,000
100	45.4	.2	2,000
10	4.54	.02	200
1	.45	.002	20

"Reportable quantity (RQ)" for the purposes of this subchapter means the quantity specified in Column 2 of the Table to § 172.101, for any material identified by the letter "E" in Column 1.

4. (6.) In § 171.12 paragraph (b) is revised to read as follows:

§ 171.12 Import and export shipments.

(b) Except for Class A and Class B explosives and radioactive materials, a hazardous material which is classed and labeled in accordance with the conditions and limitations specified in § 172.102 of this subchapter when being imported into or exported from the United States, or passing through the United States in the course of being shipped between places outside the United States, may be offered and accepted for transportation and transported within the United States if it is otherwise offered, accepted, and transported in accordance with this subchapter. In addition, an appropriate shipping name specified for a material in § 172.102 may be substituted for its proper shipping name in § 172.101 (subject to the conditions and limitations of this paragraph and § 172.102) if all or a portion of the transportation of the material is by vessel.

5. (9.) In § 171.17 the first two lines of paragraph (a) are revised as follows: and the word "removed" in line four of paragraph (c) is deleted and replaced by the word "unremoved".

§ 171.17 Hazardous substance discharge notification.

(a) When a hazardous substance is discharged in a reportable quantity from one package or transport vehicle if not packaged (accidentally or * * *

PART 172—HAZARDOUS MATERIALS TABLES AND HAZARDOUS MATERIALS COMMUNICATIONS REGULATIONS

6. (12.) In § 172.101 paragraph (b)(1) is revised by deleting of the parentheses and the words within the parentheses in lines four and five; paragraphs (c)(9), (c)(10) and (j) are revised; the introductory text to paragraph (c)(11) is revised; paragraph (c)(12) is deleted and reserved; and paragraph (d)(3) and paragraph (g)(1) are added to read as follows:

§ 172.101 Purpose and use of hazardous materials table.

(c) * * *

(9) The numbers in italics following a proper shipping name of a material identified by the letter "E" in Column 1 specify, in pounds and kilograms, the minimum quantity of the material that constitutes a reportable quantity, excluding water and other formulating materials. For example: Ammonia solution, (RQ-1000/454) means that the reportable quantity for the Ammonia is 1,000 pounds or 454 kilograms. Any formulating material that is identified by the letter "E" in Column 1 of the Table to § 172.101 and used in a mixture or solution must be evaluated independently for the RQ determination. For example, if Mevinphos (RQ-1/0.454) is mixed with Xylene (RQ-1000/454) and is in a 10 lb. package described as "Organophosphorus pesticide, liquid, n.o.s.", Mevinphos could be in a reportable quantity, but there could not be a reportable quantity of the Xylene present in that package.

(10) If the word "waste" is not included in the hazardous material description in the Table, the proper shipping name for a hazardous waste must include the word "Waste" preceding the shipping name of the material. For example: Waste acetone.

(11) A mixture or solution comprised of a hazardous material identified in the Table by technical name and non-hazardous material may be described using the proper shipping name of the hazardous material, if—

(12) (Reserved)

(d) * * *

(3) Notwithstanding the ORM class shown for a material in Column 3, such a material having a flash point of 100°F to 200°F is classed as Combustible liquid when in a packaging having a rated capacity of more than 110 gallons.

(g) * * *

(1) Each reference to a section in Column 5(b) for an ORM A, B, or C that is a hazardous waste or a hazardous substance is modified to read § 173.510 if the section referenced is applicable only to a particular mode (or modes) and the material is transported by a mode not addressed in the section.

(j) If any entry in the Table is changed by an amendment to this subchapter, such a change does not apply to the shipment of any package filled prior to the effective date of the amendment, unless specifically stated otherwise in the amendment or the "Effective date" entry in its preamble.

§ 172.101 [Amended]

6a. (12) The Hazardous Materials Table to § 172.101 is amended as follows:

(a) For the following entries the identification numbers in Column 3A are changed or added as indicated.

Entry	Present	Change
Acetonitrile.....	UN1648	NA1648
Alkaline battery fluid.....	NA2787	UN2787
Alkethrin.....	NA2902	NA2902
Ammonium nitrate (no organic coating).....	NA1942	UN1942
Ammonium nitrate, solution.....	NA2426	UN2426
Benzaldehyde.....	UN1989	NA1989
Calcium, metal.....	NA1401	UN1401
Cresol.....	NA2076	UN2076
Crude oil, petroleum (2 entries).....	NA1993	UN1267
Cyanide solution, n.o.s.....	NA1588	UN1935
Ethyl phosphonous dichloride, anhydrous.....	NA1780	NA2845
Formic acid, solution.....	NA1778	UN1779
Gasoline.....	NA1257	UN1203
Hydrogen fluoride.....	NA1790	UN1052
Hypochlorite solution (classed as corrosive material).....	NA1791	UN1791
Lithium metal in cartridges.....	NA1415	UN1415
Liquefied nonflammable gas.....	NA1958	NA1058
Magnesium scrap.....	NA2793	NA1869
Mercuric iodide, solution.....	NA1638	UN1638
Mercurous iodide, solid.....	NA1638	UN1638
Metal borings, shavings, turnings or cuttings.....	NA2793	UN2793
Methyl bromide, liquid (including up to 2 percent Chloropicrin).....	NA1581	UN1082
Methyl butene.....	NA2480	UN2480
Methyl phosphorous dichloride.....	NA1790	NA2845
Mine rescue equipment containing carbon dioxide.....	NA1958	NA1958
Monochloroacetone, stabilized or inhibited.....	NA1895	UN1895
Mortar stain, liquid (2 entries).....	NA1993	UN1263
Nitrating acid, spent.....	NA1796	NA1826
Nitrochlorobenzene (2 entries).....	NA1578	UN1578
Nitrohydrochloric acid, diluted.....	NA1798	UN1798
Nitrostarch, wet with not less than 30 percent alcohol or solvent.....	NA1993	UN1337
Organic peroxide, solid, n.o.s.....	NA187	NA9187
Oxygen.....	NA1072	UN1072
Oxygen, pressurized liquid.....	NA1073	UN1073
Poisonous liquid, n.o.s. or Poison B, liquid, n.o.s.....	NA2810	UN2810
Poisonous liquid or gas, n.o.s.....	NA9035	NA1955
Poisonous solid, n.o.s. or Poison B, solid, n.o.s.....	NA2811	UN2811
Propionic acid, solution.....	NA1848	UN1848
Rubber, scrap or Rubber buffings.....	NA1345	UN1345
Rubber, shoddy or Rubber, regenerated or Rubber, reclaimed.....	NA1345	UN1345
Rubidium metal, in cartridges.....	NA1429	UN1429
Self-lighting cigarette.....	NA1325	UN1867
Sodium fluoride, solution.....	NA1690	UN1690
Titanium metal powder, dry or wet with less than 20 percent water.....	NA2546	UN2546
Titanium metal powder, wet with 20 percent or more water.....	NA1352	UN1352
Toluene sulfonic acid, liquid.....	NA2584	UN2584
Urea nitrate, wet with 10 percent or more water.....	NA1357	UN1357

(b) For the following entries, the reportable quantity designations are changed or added as indicated.

Entry	Present	Change
Chlorosulfonic acid-sulfur trioxide mixture.....	(RQ-1000/45.4)	(RQ-1000/45.4)
Allyl alcohol.....	(RQ-100/45.5)	(RQ-100/45.4)
Phosphorus pentasulfide.....	(RQ-1000/45.4)	(RQ-100/45.4)

Entry	Present	Change
Uranyl nitrate, hexahydrate, solution.....	(RQ-5000/2270)	(RQ-5000/2270)

(c) For all entries in the Table where a reportable quantity is shown as (RQ-1/.454), the value is changed to read (RQ-1/0.454).

(d) For the following entries an "E" is added in Column 1 and the indicated reportable quantity is added in Column 2:

Electrolyte (acid) battery fluid (not over 47 pct acid).....	(RQ-1000/454)
Isobutyl acetate.....	(RQ-5000/2270)
Isobutylamine.....	(RQ-1000/454)
Isobutyric acid.....	(RQ-5000/2270)
Sodium potassium alloy, liquid.....	(RQ-1000/454)
Sodium potassium alloy, solid.....	(RQ-1000/454)
Strychnine, solid.....	(RQ-10/4.54)
Titanium sulfate, solution containing not more than 45 pct sulfuric acid.....	(RQ-1000/454)

(e) In the description "Sulfur chloride (mono and di)", the words "and di" are deleted.

(f) For the two entries "Ammunition for cannon with tear gas projectile" the letter "E" in the word "Explosive" for the Hazard Class in Column 3 is changed from upper to lower case.

(g) For the entry "Benzyl chloroformate" the word "material" is added to the Hazard Class in Column 3.

(h) For the 45 new descriptions for pesticides containing the partial descriptions listed below, the letters "n.o.s." are added to the hazardous materials descriptions in Column 2, and the parenthetical modifiers are placed following the "n.o.s." notation. For example: "Arsenical pesticide (compounds and preparations), liquid" is changed to "Arsenical pesticide, liquid, n.o.s. (compounds and preparations)".

1. Arsenical pesticide
2. Benzoic derivative pesticide
3. Bipyridilium pesticide
4. Carbamate pesticide
5. Copper based pesticide
6. Dithiocarbamate pesticide
7. Mercury based pesticide
8. Nitrophenol pesticide, substituted
9. Organochlorine pesticide
10. Organophosphorus pesticide
11. Organotin pesticide
12. Phenoxy pesticide
13. Phenylurea pesticide
14. Phthalimide derivative pesticide
15. Substituted nitrophenol pesticide
18. Triazine pesticide

(i) The description "Ammonium hydroxide (containing not more than 44% ammonia)" is changed to read "Ammonium hydroxide (containing not less than 12% but not more than 44% ammonia)."

(j) For the description "Arsenic chloride (*arsenious*) liquid. See Arsenic trichloride", the word "*(arsenious)*" is deleted.

(k) The description "*Blasting caps with detonating cord. See Detonators and Detonating primers*", the "*See*" reference is changed to read " * * * See Detonators, Class A or Class C explosives and Detonating primers, Class A or Class C explosives."

(l) For the entry "Detonators, Class A explosives. See 173.53" the spelling of the word "Explosite" in Column 4 is corrected to read "Explosive."

(m) In the description "Diesel Fuel. See Fuel oil" the letter "F" in the first "Fuel" is changed from upper to lower case.

(n) For the entry "Disulfoton" the packaging reference in Column 5(a) is changed to read "None" and the reference in Column 5(b) is changed to read "173.358."

(o) For the entry "Ethion" the indicated references are changed to read as follows: in Column 5(a) "173.345"; in Column 5(b) "173.346"; and in Column 7(b) "1, 2".

(p) In the description "Di-tert-Butyl peroxide, *technically pure*. See * * *", the letter "B" in Butyl is changed from upper to lower case.

(q) In the description "*Fabric with animal or vegetable oil. See * * **" the words "vegetable oil. See" are italicized.

(r) In the description "Ferrous arsenate (*iron arsenate*), solid" the words "*(iron arsenate)*" are deleted.

(s) In the description "Fuel oil, Diesel. See Fuel Oil." the letter "D" in "Diesel" is changed from upper to lower case.

(t) For the entry "Isopropanol" the vessel stowage requirements in Column 7(a) are changed to "1, 2" and in Column 7(b) are changed to "1".

(u) For the entry "Isopropyl acid phosphate, solid," the spelling of the word "material" in Column 3 is corrected to read "material."

(v) In the description "Lacquer base or Lacquer chips, plastic (*Wet with alcohol or solvent*)", the "W" in the word "Wet" is changed from upper to lower case, and the identification number in Column 3A is changed to "UN1263".

(w) The description "Mercury compound, n.o.s., solid" is changed to read "Mercury compound, solid, n.o.s."

(x) For the entry "Mevinphos" the references in the following columns are changed as follows: 5(a) "None"; 5(b) "173.358"; 7(a) "1, 2"; and 7(b) "5".

(y) For the entry "Mining reagent, liquid (*containing 20% or more cresylic acid*)" the reference in Column 5(b) to § 173.245 is deleted.

(z) For the entry "Motor fuel antiknock compound or Antiknock

compound (*RQ 100/45.4*)", the entry in Column 2 is changed to read "Motor fuel antiknock compound or Antiknock compound (*these materials may contain various hazardous substances for which the appropriate RQ applies*)":

(aa) In the description "Organic peroxide liquid or solution, n.o.s." (classed as Flammable liquid), a comma is added after the word "peroxide".

(bb) In the description "Organic peroxide, liquid, or solution, n.o.s." (classed as Organic peroxide), the comma after the word "liquid" is deleted.

(cc) The description "*Primer detonating. See Detonating primers*" is changed to read "*Primers detonating. See Detonating primers, Class A or Class C explosives.*"

(dd) The description "Sodium arsenite (*solution*), liquid" is changed to read "Sodium arsenite, liquid, (*solution*)".

(ee) The description "Sodium bisulfite, solid. See Sodium hydrogen sulfite, solid" is changed to read "Sodium bisulfite, solid or solution. See Sodium hydrogen sulfite, solid or solution."

(ff) For the entry "Strychnine salt, solid (*RQ 10/4.54*)" the "E" in Column 1 is deleted and (*RQ 10/4.54*) in Column 2 is deleted.

(gg) The description "Mercuric oxycyanide, solid" is changed to read "Mercuric oxycyanide, solid (*desensitized*)".

(hh) For the descriptions "Flammable gas, n.o.s." and "Compressed gas, n.o.s." (classed as Flammable gas), the plus (+) in Column 1 is deleted.

(ii) In the entry for "Textile treating compound or mixture, liquid" the reference in Column 5(b) to 173.245 is deleted.

(jj) In the description "*Acetyl acetone peroxide with more than 9% by weight active oxygen*" the word "*that*" is corrected to read "*than*".

(kk) In the description "Di-n-propyl peroxydicarbonate, *technically pure*. See Organic peroxide, solid, n.o.s." the word "solid" is changed to read "liquid".

(ll) The description "Dinitrotoluene" is changed to read "Dinitrotoluene, liquid".

(mm) For the descriptions "Arsenic trisulfide" and "Mexacarbate" a "1" is added to the Columns 7(a) and 7(b).

(nn) For all descriptions listed below, classed as a Poison A and requiring dual labels with either a Flammable gas or a Nonflammable gas label, the order of entry of the labels required in Column 4 is reversed. For example: For the entry "Hydrocyanic acid, liquefied", the entry in Column 4 is changed to read "Poison gas and Flammable gas".

1. Chloropicrin and methyl chloride mixture.

2. Chloropicrin and nonflammable, nonliquefied compressed gas mixture.

3. Cyanogen chloride.

4. Cyanogen gas.

5. Hydrocyanic acid solution (5% or more hydrocyanic acid).

6. Hydrocyanic acid, liquefied.

(oo) For the entry "Hazardous waste, liquid or solid, n.o.s." the reference in Column 5(a) is changed to read "None".

(pp) The description "Ammonium citrate" is changed to read "Ammonium citrate, dibasic".

(qq) In the entry "Xylene" the following columns are changed to read: 6(b) "10 gallons" and 7(b) "1".

(rr) In the description "Plutonium nitrate solution" a comma (,) is added after the word "nitrate".

(ss) In the description "Metal alkyl solution, n.o.s." a comma (,) is added after the word "alkyl".

(tt) The description "Life-rafts, inflatable" is changed to read "Life raft, inflatable".

(uu) For the entry "Mercuric iodide solution" a comma is added after the word "iodide" and the identification number in Column 3A is changed to read "UN1638".

(vv) The description "Sodium hydrosulfide, solid (*RQ 5000/2270*)" (classed as Flammable solid), is changed to read "Sodium hydrosulfide, solid (*with less than 25% water of crystallization*) (*RQ 5000/2270*)".

(ww) In the entry "Decaborane" the following columns are changed to read: 5(a) "None"; 5(b) "173.236"; 6(a) "Forbidden"; and 6(b) "25 pounds."

(xx) In the entry "Dichlorobutene" the following columns are changed to read: 4 "Flammable liquid", and 6(b) "10 gallons."

(yy) The following are additions and deletions to the Table, with exception of the "Ammonium nitrate-fuel oil mixture" entry which is a change.

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§172.101 Hazardous Materials Table

1

(1) +/ E/ A/ W	(2) Hazardous materials descriptions and proper shipping names	(3) Hazard class	(3A) Identifi- cation number	(4) Label(s) required (if not excepted)	(5) Packaging		(6) Maximum net quantity in one package		(7) Water shipments		(7) Other requirements
					(a) Exceptions	(b) Specific require- ments	(a) Passenger carrying aircraft or railcar	(b) Cargo only aircraft	(a) Cargo vessel	(b) Pas- senger vessel	
	<p>••• ADDITIONS •••</p>										
EAW	Ammonium hydroxide (containing less than 12% ammonia) (RQ-5000/2270)	ORM-A	NA2672	None	173.505	173.510	10 gallons	55 gallons	1	1	
	Ammonium nitrate - fuel oil mixture (containing only prilled ammonium nitrate and fuel oil)	Blasting agent		Blasting agent	None	173.114a	Forbidden	100 pounds	1,2	1,2	
E	Azinphos methyl mixture, liquid (RQ-1/0.454)	Poison B	NA2788	Poison	173.345	173.346	1/2 pint	1 quart	1,2	5	
E	Carbofuran mixture, liquid (RQ-10/4.54)	Poison B	NA2767	Poison	173.345	173.346	1 quart	55 gallons	1,2	1,2	
E	Coumaphos mixture, liquid (RQ-10/4.54)	Poison B	NA2768	Poison	173.345	173.346	1/2 pint	1 quart	1,2	5	
	Delay connectors. See Detonators, Class A or Class C explosives and Detonating primers, Class A or Class C explosives										
E	Dichlorvos mixture, dry (RQ-10/4.54)	Poison B	NA2788	Poison	173.364	173.365	50 pounds	200 pounds	1,2	1,2	
	Diethylzinc. See Pyrophoric liquid, n.o.s.										
E	Dinitrotoluene, solid (RQ-1000/454)	ORM-E	UN2088	None	None	173.510	No limit	No limit	1,2	1,2	
E	Disulfoton mixture, dry (RQ-1/0.454)	Poison B	NA2788	Poison	173.377	173.377	Forbidden	200 pounds	1,2	4	
E	Disulfoton mixture, liquid (RQ-1/0.454)	Poison B	NA2788	Poison	173.359	173.359	1/2 pint	1 quart	1,2	5	
E	Eadonulfon mixture, liquid (RQ-1/0.454)	Poison B	NA2761	Poison	173.345	173.346	1 quart	55 gallons	1,2	1,2	
E	Eadrin mixture, liquid (RQ-1/0.454)	Poison B	NA2761	Poison	173.345	173.346	1 quart	55 gallons	1,2	1,2	
E	Ethion mixture, dry (RQ-10/4.54)	Poison B	NA2783	Poison	173.364	173.365	50 pounds	200 pounds	1,2	1,2	
E	Guthion mixture, liquid. See Azinphos methyl mixture, liquid										
	Infectious substance, human, n.o.s. See Etiologic agent, n.o.s.		UN2814								
E	Lead sulfate (RQ-5000/2270)	ORM-B	NA2801	None	None	173.510	No limit	No limit	1,2	1,2	
E	Mevinphos mixture, dry (RQ-1/0.454)	Poison B	NA2783	Poison	173.377	173.377	Forbidden	200 pounds	1,2	4	
E	Mevinphos mixture, liquid (RQ-1/0.454)	Poison B	NA2783	Poison	173.359	173.359	1/2 pint	1 quart	1,2	5	
E	Sodium hydrogen sulfite, solution (RQ-5000/2270)	Corrosive material	NA2899	Corrosive	173.244	173.245	1 quart	5 gallons	1,2	1,2	
E	Sodium hydrosulfide, solid, (with not less than 25% water of crystallization) (RQ-5000/2270)	Corrosive material	NA2923	Corrosive	173.244	173.245b	25 pounds	100 pounds	1,2	1,2	
	Sulfur chloride (dl)	Corrosive material	UN1828	Corrosive	None	173.247	Forbidden	1 gallon	1	1	Keep dry. Glass carboys not permitted on passenger vessels
	••• DELETIONS •••										
	Ammonium nitrate - fuel oil mixture (Containing only prilled ammonium nitrate and fuel oil). See Blasting agent, n.o.s.										
E	Motor fuel antiknock compound or Antiknock compound, containing tetraethyl lead (RQ-100/45.4)	Poison B	UN1649	Poison	None	173.354	Forbidden	55 gallons	1	5	If flashpoint is less than 141 DEG F, segregation same as for flammable liquids

7. (13.) in § 172.102 the word "parentheses" inside the parentheses in line thirteen of paragraph (h) is deleted and replaced by the word "italics"; and the parentheses are deleted from the italicized hazard class words in paragraphs (h)(1) through (h)(9); and the heading and paragraphs (a) and (b) are revised to read as follows:

§ 172.102 Purpose and use of Optional Hazardous Materials Table for international shipments.

(a) The Optional Hazardous Materials Table (Optional Table) set forth in this section provides descriptions, classifications, labeling and vessel stowage requirements which may be used for international shipments as authorized by § 171.12 of this subchapter. The Optional Table provides alternatives to corresponding requirements in § 172.101 subject to conditions set forth in this section. The provisions of this section do not apply to materials designated as hazardous materials under this subchapter that are not subject to the requirements of the IMCO Code. This section does not designate materials as hazardous materials and it does not specify packaging requirements, exceptions or limitations. They are made only in § 172.101. A number of materials listed in the Optional Table may not be subject to the requirements of this subchapter, but they are subject to regulation under widely applied international standards. They are listed in this section in the interest of providing consistency with those standards and to alert persons offering or accepting these materials for transportation that the materials may be subject to regulation in international transport.

(b) A material described, classed and labeled in accordance with this section must be in conformance with all additional defining or limiting conditions prescribed for the description in the appropriate schedule of the IMCO Code.

(h) * * *
* * * * *

(3) Class 3—Flammable liquids.

(i) Division 3.1—Low flash point group (liquids with flash points below 0°F).
Flammable liquid

(ii) Division 3.2—Intermediate flash point group (liquids with flash points of 0°F. or above but less than 73°F).
Flammable liquid

(iii) Division 3.3—High flash point group (liquids with flash points of 73°F. or above up to and including 141°F).
Flammable liquid or Combustible liquid

7a. (13.) The Optional Hazardous Materials Table to § 172.102 is amended as follows:

(a) For the description "Acrylamide", the entire second line of the entry is deleted.

(b) The description "Motor fuel anti-knock mixtures" is changed to read "Motor fuel anti-knock mixtures *or* Ethyl fluid".

(c) A second entry "Alkylamines and polyamines, *flashpoint 23 deg C and above, boiling point above 35 deg C but not more than 200 deg C, n.o.s.*", is added below the present "Alkylamines, etc." entry in Column 2 to complete the line entry for which a description was omitted.

(d) In the description "Paint, enamel, lacquer, stain, shellac, varnish, polish, filler (liquid), lacquer base *and* thinner (*not including substances containing nitrocellulose for which See Nitrocellulose*)" the word "and" is changed to "or".

7b. The Numeric—Alpha index in Appendix A to Subpart B of Part 172 is revised to read as follows:

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APPENDIX A - IDENTIFICATION NUMBER CROSS REFERENCE TO PROPER SHIPPING NAMES IN §172.101 AND §172.102

This listing is provided for information purposes only.

(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description
UN 0001 ...	102	Alarm devices, explosive
UN 0004 ...	102	Ammonium picrate
UN 0005 ...	102	Cartridges for weapons
UN 0006 ...	102	Cartridges for weapons
UN 0007 ...	102	Cartridges for weapons
UN 0009 ...	102	Ammunition, incendiary
UN 0010 ...	102	Ammunition, incendiary
UN 0012 ...	102	Cartridges for weapons
UN 0014 ...	102	Cartridges for weapons, blank
UN 0015 ...	102	Ammunition, smoke
UN 0016 ...	102	Ammunition, smoke
UN 0018 ...	102	Ammunition, tear producing
UN 0019 ...	102	Ammunition, tear producing
UN 0020 ...	102	Ammunition, toxic
UN 0021 ...	102	Ammunition, toxic
UN 0022 ...	102	Amorces
UN 0027 ...	102	Black powder
UN 0028 ...	102	Black powder, compressed
UN 0029 ...	102	Blasting caps, non-electric
UN 0030 ...	102	Blasting caps, electric
UN 0033 ...	102	Bombs
UN 0034 ...	102	Bombs
UN 0035 ...	102	Bombs
UN 0037 ...	102	Bombs, photo-flash
UN 0038 ...	102	Bombs, photo-flash
UN 0039 ...	102	Bombs, photo-flash
UN 0042 ...	102	Boosters
UN 0042 ...	102	Gaines, without detonator
UN 0043 ...	102	Bursters
UN 0044 ...	102	Caps, percussion
UN 0044 ...	102	Primers, cap type
UN 0048 ...	102	Charges, demolition
UN 0049 ...	102	Cartridges, flash
UN 0050 ...	102	Cartridges, flash
UN 0054 ...	102	Cartridges, signal
UN 0055 ...	102	Cases, cartridges, empty, with primer
UN 0058 ...	102	Charges, depth
UN 0059 ...	102	Charges, shaped
UN 0060 ...	102	Charges, supplementary, explosive
UN 0065 ...	102	Cord, detonating
UN 0066 ...	102	Cord, igniter
UN 0070 ...	102	Cutters, cable, explosive
UN 0072 ...	102	Cyclotrimethylenetrinitramine
UN 0073 ...	102	Detonators for ammunition
UN 0074 ...	102	Diazodinitrophenol
UN 0075 ...	102	Diethyleneglycol dinitrate
UN 0076 ...	102	Dinitrophenol
UN 0077 ...	102	Dinitrophenates
UN 0079 ...	102	Dinitrosorcinol
UN 0079 ...	102	Hexanitrodiphenylamine
UN 0081 ...	102	Explosives, blasting, Type A
UN 0082 ...	102	Explosives, blasting, Type B
UN 0083 ...	102	Explosives, blasting, Type C
UN 0084 ...	102	Explosives, blasting, Type D
UN 0092 ...	102	Flares, surface
UN 0093 ...	102	Flares, aerial
UN 0094 ...	102	Photo-flash powder
UN 0096 ...	102	Photo-flash powder
UN 0099 ...	102	Fracturing devices, explosive
UN 0101 ...	102	Fuse, instantaneous, non-detonating
UN 0102 ...	102	Cord, detonating
UN 0103 ...	102	Fuse, igniter
UN 0104 ...	102	Cord, detonating, mild effect
UN 0105 ...	102	Fuse, safety
UN 0106 ...	102	Fuzes, detonating
UN 0107 ...	102	Fuzes, detonating
UN 0110 ...	102	Grenades, practice
UN 0113 ...	102	Guanyl nitrosamino guanylidene hydrazine
UN 0114 ...	102	Guanyl nitrosamino guanyl tetrazene

(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description
UN 0116 ...	102	Hexolite
UN 0121 ...	102	Igniters
UN 0124 ...	102	Jet perforating guns, charged
UN 0129 ...	102	Lead azide
UN 0130 ...	102	Lead styphnate
UN 0131 ...	102	Lighters, fuse
UN 0132 ...	102	Deflagrating metal salts of aromatic nitro-derivatives, n.o.s.
UN 0133 ...	102	Mannitol hexanitrate
UN 0135 ...	102	Mercury fulminate
UN 0136 ...	102	Mines
UN 0137 ...	102	Mines
UN 0138 ...	102	Mines
UN 0143 ...	102	Nitroglycerine, desensitized
UN 0144 ...	102	Nitroglycerine, spirit of
UN 0146 ...	102	Nitrostarch
UN 0147 ...	102	Nitro urea
UN 0150 ...	102	Pentaerythrite tetranitrate
UN 0151 ...	102	Pentolite
UN 0153 ...	102	Trinitro-aniline
UN 0154 ...	102	Trinitrophenol
UN 0155 ...	102	Trinitrochlorobenzene
UN 0158 ...	102	Potassium salts of nitro-aromatic derivatives
UN 0159 ...	102	Powder paste
UN 0160 ...	102	Powder, smokeless
UN 0161 ...	102	Powder, smokeless
UN 0167 ...	102	Projectiles
UN 0168 ...	102	Projectiles
UN 0169 ...	102	Projectiles
UN 0171 ...	102	Ammunition, illuminating
UN 0173 ...	102	Release devices, explosive
UN 0174 ...	102	Rivets, explosive
UN 0180 ...	102	Rockets
UN 0181 ...	102	Rockets
UN 0182 ...	102	Rockets
UN 0183 ...	102	Rockets
UN 0186 ...	102	Rocket motors
UN 0190 ...	102	Samples, explosive substance
UN 0191 ...	102	Signal devices, hand
UN 0192 ...	102	Signals, railway track, explosive
UN 0193 ...	102	Signals, railway track, explosive
UN 0194 ...	102	Signals, distress
UN 0195 ...	102	Signals, distress
UN 0196 ...	102	Signals, smoke
UN 0197 ...	102	Signals, smoke
UN 0203 ...	102	Sodium salts of nitro-aromatic derivatives
UN 0204 ...	102	Sounding devices, explosive
UN 0206 ...	102	Squibs
UN 0207 ...	102	Tetranitro-aniline
UN 0208 ...	102	Trinitrophenylmethylnitramine
UN 0209 ...	102	Trinitrotohuene
UN 0212 ...	102	Tracers for ammunition
UN 0213 ...	102	Trinitroanisole
UN 0214 ...	102	Trinitrobenzene
UN 0215 ...	102	Trinitrobenzoic acid
UN 0216 ...	102	Trinitrometacresol
UN 0217 ...	102	Trinitronaphthalene
UN 0218 ...	102	Trinitrophenetole
UN 0219 ...	102	Trinitrosorcinol
UN 0220 ...	102	Urea nitrate
UN 0221 ...	102	Warheads, torpedo
UN 0222 ...	102	Ammonium nitrate
UN 0223 ...	102	Ammonium nitrate fertilizers
UN 0224 ...	102	Barium azide
UN 0225 ...	102	Boosters, with detonator
UN 0225 ...	102	Gaines, with detonator
UN 0226 ...	102	Cyclotetramethylenetetranitramine
UN 0234 ...	102	Sodium dinitro-o-cresolate
UN 0235 ...	102	Sodium picramate
UN 0236 ...	102	Zirconium picramate
UN 0237 ...	102	Charges, shaped, flexible, linear
UN 0238 ...	102	Rockets, line throwing
UN 0240 ...	102	Rockets, line throwing
UN 0241 ...	102	Explosives, blasting, Type E

(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description
UN 0242 ...	102	Charges, propelling, for cannon
UN 0243 ...	102	Ammunition, incendiary, white phosphorus
UN 0244 ...	102	Ammunition, incendiary, white phosphorus
UN 0245 ...	102	Ammunition, smoke, white phosphorus
UN 0246 ...	102	Ammunition, smoke, white phosphorus
UN 0247 ...	102	Ammunition, incendiary
UN 0248 ...	102	Contrivances, water-activated
UN 0249 ...	102	Contrivances, water-activated
UN 0250 ...	102	Rocket motors
UN 0254 ...	102	Ammunition, illuminating
UN 0255 ...	102	Blasting caps, electric
UN 0257 ...	102	Fuzes, detonating
UN 0266 ...	102	Octolite
UN 0267 ...	102	Blasting caps, non-electric
UN 0268 ...	102	Boosters, with detonator
UN 0268 ...	102	Gaines, with detonator
UN 0271 ...	102	Charges, propelling, for rocket motors
UN 0272 ...	102	Charges, propelling, for rocket motors
UN 0273 ...	102	Charges, propelling, for rocket motors
UN 0274 ...	102	Charges, propelling, for rocket motors
UN 0275 ...	102	Cartridges, power device
UN 0276 ...	102	Cartridges, power device
UN 0277 ...	102	Cartridges, oil well
UN 0278 ...	102	Cartridges, oil well
UN 0279 ...	102	Charges, propelling, for cannon
UN 0280 ...	102	Rocket motors
UN 0281 ...	102	Rocket motors
UN 0282 ...	102	Nitroguanidine
UN 0283 ...	102	Boosters
UN 0283 ...	102	Gaines, without detonator
UN 0284 ...	102	Grenades
UN 0285 ...	102	Grenades
UN 0286 ...	102	Warheads, rocket
UN 0287 ...	102	Warheads, rocket
UN 0288 ...	102	Charges, shaped, flexible, linear
UN 0289 ...	102	Cord, detonating
UN 0290 ...	102	Cord, detonating
UN 0291 ...	102	Bombs
UN 0292 ...	102	Grenades
UN 0293 ...	102	Grenades
UN 0294 ...	102	Mines
UN 0295 ...	102	Rockets
UN 0296 ...	102	Sounding devices, explosive
UN 0297 ...	102	Ammunition, illuminating
UN 0299 ...	102	Bombs, photo-flash
UN 0300 ...	102	Ammunition, incendiary
UN 0301 ...	102	Ammunition, tear-producing
UN 0303 ...	102	Ammunition, smoke
UN 0305 ...	102	Photo-flash powder
UN 0306 ...	102	Tracers for ammunition
UN 0312 ...	102	Cartridges, signal
UN 0313 ...	102	Signals, smoke
UN 0314 ...	102	Igniters
UN 0315 ...	102	Igniters
UN 0316 ...	102	Fuzes, igniting
UN 0317 ...	102	Fuzes, igniting
UN 0318 ...	102	Grenades, practice
UN 0319 ...	102	Primers, tubular
UN 0320 ...	102	Primers, tubular
UN 0321 ...	102	Cartridges for weapons
UN 0322 ...	102	Rocket motors
UN 0323 ...	102	Cartridges, power device
UN 0324 ...	102	Projectiles
UN 0325 ...	102	Igniters
UN 0326 ...	102	Cartridges for weapons, blank
UN 0327 ...	102	Cartridges for weapons, blank
UN 0328 ...	102	Cartridges for weapons, with inert projectile

(1) Identifi- cation Number	(2) Source 172.***	(3) Description	(1) Identifi- cation Number	(2) Source 172.***	(3) Description	(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 0329 ...	102	Torpedoes	UN 1016 ...	101	Carbon monoxide	UN 1085 ...	102	Vinyl bromide
UN 0330 ...	102	Torpedoes	UN 1017 ...	101	Chlorine	UN 1086 ...	101	Vinyl chloride
UN 0331 ...	102	Explosives, blasting, Type B	UN 1018 ...	102	Chlorodifluoromethane	UN 1087 ...	101	Vinyl methyl ether
UN 0332 ...	102	Explosives, blasting, Type E	UN 1018 ...	101	Monochlorodifluoromethane	UN 1088 ...	101	Acetal
UN 0333 ...	102	Fireworks, Type A	UN 1020 ...	102	Chloropentafluoroethane	UN 1089 ...	101	Acetaldehyde
UN 0334 ...	102	Fireworks, Type B	UN 1020 ...	101	Monochloropentafluoroethane	UN 1090 ...	101	Acetone
UN 0335 ...	102	Fireworks, Type C	UN 1021 ...	102	Chlorotetrafluoroethane	UN 1091 ...	101	Acetone oil
UN 0336 ...	102	Fireworks, Type D	UN 1021 ...	101	Monochlorotetrafluoroethane	UN 1091 ...	102	Acetone oils
UN 0337 ...	102	Fireworks, Type D	UN 1022 ...	102	Chlorotrifluoromethane	UN 1092 ...	102	Acrolein
UN 0338 ...	102	Cartridges for weapons, blank	UN 1022 ...	101	Monochlorotrifluoromethane	UN 1092 ...	101	Acrolein, inhibited
UN 0339 ...	102	Cartridges for weapons, with inert projectile	UN 1023 ...	102	Coal gas	UN 1093 ...	101	Acrylonitrile
UN 0340 ...	102	Nitrocellulose with	UN 1026 ...	102	Cyanogen	UN 1095 ...	102	Alcohol
UN 0341 ...	102	Nitrocellulose with	UN 1026 ...	101	Cyanogen gas	UN 1096 ...	102	Alcohol
UN 0342 ...	102	Nitrocellulose with	UN 1027 ...	101	Cyclopropane	UN 1096 ...	101	Allyl alcohol
UN 0343 ...	102	Nitrocellulose with	UN 1028 ...	101	Dichlorodifluoromethane	UN 1099 ...	101	Allyl bromide
UN 0344 ...	102	Projectiles	UN 1029 ...	102	Dichloromonofluoromethane	UN 1100 ...	101	Allyl chloride
UN 0345 ...	102	Projectiles	UN 1030 ...	102	1,1-Difluoroethane	UN 1101 ...	102	Diethylaluminum chloride
UN 0346 ...	102	Projectiles	UN 1030 ...	101	Difluoroethane	UN 1102 ...	102	Aluminum triethyl
UN 0347 ...	102	Projectiles	UN 1031 ...	102	Diffuoromonochloroethane	UN 1103 ...	102	Aluminum trimethyl
UN 0348 ...	102	Cartridges for weapons	UN 1032 ...	102	Dimethylamine	UN 1104 ...	101	Amyl acetate
UN 0349 ...	102	Articles, explosive, n.o.s.	UN 1032 ...	101	Dimethylamine, anhydrous	UN 1104 ...	102	Amyl acetates
UN 0350 ...	102	Articles, explosive, n.o.s.	UN 1033 ...	101	Dimethyl ether	UN 1105 ...	102	Amyl alcohols
UN 0351 ...	102	Articles, explosive, n.o.s.	UN 1035 ...	101	Ethane	UN 1106 ...	101	Amylamine
UN 0352 ...	102	Articles, explosive, n.o.s.	UN 1036 ...	102	Ethylamine	UN 1107 ...	101	Amyl chloride
UN 0353 ...	102	Articles, explosive, n.o.s.	UN 1036 ...	101	Monothylamine	UN 1108 ...	101	Amylene
UN 0354 ...	102	Articles, explosive, n.o.s.	UN 1037 ...	101	Ethyl chloride	UN 1108 ...	102	n-Amylene
UN 0355 ...	102	Articles, explosive, n.o.s.	UN 1038 ...	102	Ethylene	UN 1109 ...	101	Amyl formate
UN 0356 ...	102	Articles, explosive, n.o.s.	UN 1039 ...	101	Ethyl methyl ether	UN 1109 ...	102	Amyl formates
UN 0357 ...	102	Substances, explosive, n.o.s.	UN 1040 ...	101	Ethylene oxide	UN 1110 ...	102	Amyl methyl ketone
UN 0358 ...	102	Substances, explosive, n.o.s.	UN 1041 ...	102	Ethylene oxide and carbon dioxide	UN 1110 ...	101	Methyl amy ketone
UN 0359 ...	102	Substances, explosive, n.o.s.	NA 1043 ...	101	Crude nitrogen fertilizer solution	UN 1111 ...	101	Amyl mercaptan
UN 0360 ...	102	Blasting cap assemblies, non-electric	UN 1043 ...	101	Fertilizer ammoniating solution	UN 1112 ...	102	Amyl nitrate
UN 0361 ...	102	Blasting cap assemblies, non electric	NA 1043 ...	101	Nitrogen fertilizer solution	UN 1113 ...	101	Amyl nitrite
UN 0362 ...	102	Ammunition, practice	UN 1044 ...	101	Fire extinguisher	UN 1114 ...	101	Benzene
UN 0363 ...	102	Ammunition, proof	UN 1044 ...	102	Fire extinguishers	UN 1115 ...	101	Benzine
UN 0364 ...	102	Detonators for ammunition	UN 1045 ...	101	Fluorine	UN 1116 ...	102	Brake fluid, hydraulic
UN 0365 ...	102	Detonators for ammunition	UN 1046 ...	101	Helium	UN 1120 ...	102	Butanol
UN 0366 ...	102	Detonators for ammunition	UN 1048 ...	101	Hydrogen bromide	NA 1120 ...	101	Butyl alcohol
UN 0367 ...	102	Fuzes, detonating	UN 1049 ...	101	Hydrogen	UN 1121 ...	102	sec-Butanol
UN 0368 ...	102	Fuzes, igniting	UN 1050 ...	101	Hydrogen chloride	UN 1122 ...	102	tert-Butanol
UN 0369 ...	102	Warheads, rocket	NA 1051 ...	101	Hydrocyanic acid, liquefied	UN 1123 ...	101	Butyl acetate
UN 0370 ...	102	Warheads, rocket	UN 1051 ...	102	Hydrogen cyanide	UN 1123 ...	102	n-Butyl acetate
UN 0371 ...	102	Warheads, rocket	UN 1052 ...	101	Hydrogen fluoride	UN 1124 ...	102	sec-Butyl acetate
UN 0372 ...	102	Grenades, practice	UN 1053 ...	101	Hydrogen sulfide	UN 1125 ...	101	Butylamine
UN 0373 ...	102	Signal devices, hand	UN 1053 ...	102	Hydrogen sulphide	UN 1125 ...	102	n-Butylamine
UN 0374 ...	102	Sounding devices, explosive	UN 1055 ...	102	Isobutylene	UN 1126 ...	101	Butyl bromide
UN 0375 ...	102	Sounding devices, explosive	UN 1056 ...	102	Krypton	UN 1126 ...	102	n-Butyl bromide
UN 0376 ...	102	Primers, tubular	UN 1057 ...	101	Cigarette lighter	UN 1127 ...	101	Butyl chloride
UN 0377 ...	102	Primers, cap type	UN 1057 ...	102	Lighters	UN 1127 ...	102	n-Butyl chloride
UN 0378 ...	102	Primers, cap type	NA 1058 ...	101	Liquefied nonflammable gas	UN 1128 ...	101	Butyl formate
UN 0379 ...	102	Cases, cartridge, empty, with primer	UN 1058 ...	102	Liquefied non-flammable gases charged with nitrogen, carbon dioxide or air	UN 1128 ...	102	n-Butyl formate
UN 0380 ...	102	Articles, pyrophoric	UN 1060 ...	102	Methyl acetylene	UN 1129 ...	101	Butyraldehyde
UN 0381 ...	102	Cartridges, power device	UN 1060 ...	101	Methylacetylene-propadiene, stabilized	UN 1130 ...	101	Camphor oil
UN 0382 ...	102	Components, explosive train, n.o.s.	UN 1061 ...	102	Methylamine	UN 1131 ...	101	Carbon bisulfide, or Carbon disulfide
UN 0383 ...	102	Components, explosive train, n.o.s.	UN 1061 ...	101	Methylamine, anhydrous	UN 1131 ...	102	Carbon disulphide
UN 0384 ...	102	Components, explosive train, n.o.s.	UN 1062 ...	102	Methyl bromide	UN 1132 ...	102	Carbon remover
UN 0385 ...	102	5-Nitrobenzotriazol	UN 1062 ...	101	Methyl bromide, liquid	UN 1132 ...	101	Carbon remover, liquid
UN 0386 ...	102	Trinitrobenzenesulfonic acid	UN 1063 ...	101	Methyl chloride	NA 1133 ...	101	Cement, container, linoleum, tile, or wallboard, liquid
UN 0387 ...	102	Trinitrofluorenone	UN 1064 ...	101	Methyl mercaptan	NA 1133 ...	101	Cement, leather
UN 0388 ...	102	Trinitrotoluene	UN 1064 ...	102	Methylmercaptan	NA 1133 ...	101	Cement, liquid, n.o.s.
UN 0389 ...	102	Trinitrotoluene	UN 1065 ...	101	Neon	NA 1133 ...	101	Cement, pyroxylin
UN 0390 ...	102	Trifonal	UN 1066 ...	101	Nitrogen	NA 1133 ...	101	Cement, roofing, liquid
UN 0391 ...	102	Cyclotrimethylenetrinitramine mixed with cyclotetramethylenetetranitramine	UN 1067 ...	102	Nitrogen dioxide	NA 1133 ...	101	Cement, rubber
UN 0392 ...	102	Hexanitrostibene	UN 1067 ...	101	Nitrogen dioxide, liquid	UN 1134 ...	101	Chlorobenzene
UN 0393 ...	102	Hexatonal, cast	NA 1067 ...	101	Nitrogen peroxide, liquid	UN 1135 ...	102	2-Chloroethanol
UN 0394 ...	102	Trinitroresorcinol	UN 1069 ...	101	Nitrogen tetroxide, liquid	UN 1135 ...	101	Ethylene chlorohydrin
UN 1001 ...	101	Acetylene	UN 1070 ...	101	Nitrosyl chloride	UN 1136 ...	101	Coal tar distillate
UN 1002 ...	102	Air	UN 1071 ...	102	Nitrous oxide	NA 1136 ...	101	Coal tar light oil
UN 1002 ...	101	Air, compressed	UN 1072 ...	101	Oil gas	NA 1136 ...	101	Coal tar oil
UN 1003 ...	102	Air	UN 1073 ...	102	Oxygen	UN 1137 ...	101	Coal tar distillate
UN 1005 ...	102	Ammonia	UN 1073 ...	101	Oxygen, pressurized liquid	UN 1137 ...	101	Coal tar light oil
UN 1005 ...	101	Ammonia, anhydrous	UN 1075 ...	101	Liquefied petroleum gas	NA 1137 ...	101	Coal tar oil
UN 1006 ...	101	Argon	UN 1075 ...	102	Petroleum gases	NA 1142 ...	101	Coating solution
UN 1008 ...	101	Boron trifluoride	UN 1076 ...	101	Phosgene	NA 1142 ...	101	Antifreeze compound, liquid
UN 1009 ...	102	Bromotrifluoromethane	UN 1077 ...	102	Propylene	NA 1142 ...	101	Antifreeze preparation, liquid
UN 1009 ...	101	Monobromotrifluoromethane	UN 1078 ...	102	Refrigerant gases, n.o.s.	NA 1142 ...	101	Compound, lacquer, paint, or varnish, removing, reducing, or thinning, liquid
UN 1010 ...	102	Butadiene	UN 1079 ...	101	Sulfur dioxide	NA 1142 ...	101	Compound, polishing, liquid
UN 1010 ...	101	Butadiene, inhibited	UN 1079 ...	102	Sulphur dioxide	NA 1142 ...	101	Compound, vulcanizing, liquid
UN 1011 ...	102	Butane	UN 1080 ...	101	Sulfur hexafluoride	NA 1142 ...	101	Dressing, leather
UN 1012 ...	102	Butylene	UN 1080 ...	102	Sulphur hexafluoride	UN 1142 ...	102	Flammable liquid preparation, n.o.s.
UN 1013 ...	102	Carbon dioxide	UN 1081 ...	101	Tetrafluoroethylene	NA 1142 ...	101	Leather bleach or dressing
UN 1014 ...	102	Carbon dioxide and oxygen	UN 1081 ...	102	Tetrafluoroethylene, inhibited	NA 1142 ...	101	Polish, metal, stove, furniture or wood, liquid
UN 1014 ...	101	Carbon dioxide-oxygen mixture	UN 1082 ...	101	Trifluorochloroethylene	NA 1142 ...	101	Rust preventive coating
UN 1015 ...	102	Carbon dioxide and nitrous oxide	UN 1082 ...	102	Trifluoroethoxyethylene	UN 1143 ...	101	Crotonaldehyde
UN 1015 ...	101	Carbon dioxide-nitrous oxide mixture	UN 1083 ...	102	Trimethylamine	UN 1144 ...	101	Crotonylene
			UN 1083 ...	101	Trimethylamine, anhydrous			

(1) Identifi- cation Number	(2) Source 172.***	(3) Description	(1) Identifi- cation Number	(2) Source 172.***	(3) Description	(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 1145 ...	101	Cyclohexane	UN 1208 ...	101	Neohexane	UN 1277 ...	102	Monopropylamine
UN 1146 ...	101	Cyclopentane	UN 1210 ...	101	Ink	UN 1277 ...	101	Propylamine
UN 1147 ...	101	Degcahydronaphthalene	UN 1210 ...	102	Ink, printers	UN 1278 ...	101	Propyl chloride
UN 1148 ...	102	Diacetone alcohol	UN 1212 ...	102	Isobutanol	UN 1279 ...	101	Propylene dichloride
UN 1148 ...	101	Diacetone alcohol	UN 1213 ...	101	Isobutyl acetate	UN 1280 ...	101	Propylene oxide
UN 1149 ...	101	Butyl ether	UN 1214 ...	101	Isobutylamine	UN 1281 ...	101	Propyl formate
UN 1149 ...	102	Dibutyl ethers	UN 1215 ...	101	Isocitene	UN 1281 ...	102	Propyl formates
UN 1150 ...	101	Dichloroethylene	UN 1218 ...	101	Isoprene	UN 1282 ...	101	Pyridine
UN 1152 ...	101	Dichloropentane	UN 1219 ...	101	Isopropanol	UN 1286 ...	102	Roasin oil
UN 1152 ...	102	Dichloropentanes	UN 1220 ...	101	Isopropyl acetate	UN 1287 ...	102	Rubber solution
UN 1153 ...	102	1,2-Diethoxyethane	UN 1221 ...	101	Isopropylamine	UN 1288 ...	102	Shale oil
UN 1153 ...	101	Ethylene glycol diethyl ether	UN 1222 ...	101	Isopropyl nitrate	UN 1289 ...	102	Sodium methylate
UN 1154 ...	101	Diethylamine	UN 1223 ...	101	Kerosene	NA 1289 ...	101	Sodium methylate, alcohol mixture
UN 1155 ...	102	Diethyl ether	UN 1224 ...	102	Ketones	UN 1292 ...	101	Ethyl silicate
UN 1155 ...	101	Diethyl ketone	UN 1226 ...	101	Cigarette lighter	UN 1292 ...	102	Tetraethyl silicate
UN 1156 ...	101	Diethyl ketone	UN 1226 ...	101	Lighter fluid	UN 1293 ...	102	Tinctures
UN 1157 ...	101	Diisobutyl ketone	UN 1226 ...	102	Lighter fuels	UN 1294 ...	101	Toluene
UN 1158 ...	101	Diisopropylamine	UN 1226 ...	102	Lighters	UN 1295 ...	101	Trichlorosilane
UN 1159 ...	101	Disopropyl ether	NA 1228 ...	101	Mercaptan mixture, aliphatic	UN 1296 ...	101	Triethylamine
UN 1160 ...	102	Dimethylamine	UN 1228 ...	102	Mercaptans and mercaptan mixtures	UN 1297 ...	102	Trimethylamine
UN 1160 ...	101	Dimethylamine, aqueous solution	UN 1229 ...	101	Methyl oxide	UN 1297 ...	101	Trimethylamine, aqueous solution
UN 1161 ...	101	Dimethyl carbonate	NA 1230 ...	101	Columbian spirits	UN 1298 ...	101	Trimethylchlorosilane
UN 1162 ...	101	Dimethyldichlorosilane	UN 1230 ...	102	Methanol	UN 1299 ...	101	Turpentine
UN 1163 ...	102	Dimethylhydrazine	UN 1230 ...	101	Methyl alcohol	UN 1300 ...	101	Turpentine substitute
UN 1163 ...	101	Dimethylhydrazine, unsymmetrical	UN 1231 ...	101	Methyl acetate	UN 1301 ...	101	Vinyl acetate
UN 1164 ...	101	Dimethyl sulfide	UN 1232 ...	101	Methyl acetone	UN 1302 ...	102	Vinyl ethyl ether
UN 1164 ...	102	Dimethyl sulphide	UN 1233 ...	101	Methylamyl acetate	UN 1302 ...	101	Vinyl ethyl ether, inhibited
UN 1165 ...	101	Dioxane	UN 1234 ...	101	Methylal	UN 1303 ...	101	Vinylidene chloride, inhibited
UN 1166 ...	101	Dioxolane	UN 1235 ...	102	Methylamine	UN 1304 ...	101	Vinyl isobutyl ether
UN 1167 ...	101	Divinyl ether	UN 1235 ...	101	Methylamine, aqueous solution	UN 1305 ...	101	Vinyl trichlorosilane
UN 1168 ...	102	Driers	UN 1237 ...	101	Methyl butyrate	UN 1307 ...	101	Xylene
UN 1168 ...	101	Paint drier, liquid	UN 1238 ...	101	Methyl chloroformate	UN 1307 ...	102	Xylenes
UN 1169 ...	102	Extracts	UN 1239 ...	102	Methyl chloromethyl ether	UN 1308 ...	102	Zirconium
UN 1170 ...	101	Alcoholic beverage	UN 1239 ...	101	Methylchloromethyl ether, anhydrous	UN 1308 ...	101	Zirconium, metal, liquid, suspensions
NA 1170 ...	101	Cologne spirits	UN 1242 ...	101	Methyl dichlorosilane	UN 1309 ...	102	Aluminum
UN 1170 ...	102	Ethanol	UN 1242 ...	102	Methyldichlorosilane	UN 1310 ...	102	Ammonium picrate
UN 1170 ...	101	Ethyl alcohol	UN 1243 ...	101	Methyl formate	UN 1310 ...	101	Ammonium picrate, wet
UN 1171 ...	102	2-Ethoxyethanol	UN 1244 ...	101	Methylhydrazine	UN 1312 ...	102	Bomeol
UN 1171 ...	101	Ethylene glycol monoethyl ether	UN 1245 ...	102	Methyl isobutyl ketone	UN 1313 ...	101	Calcium resinate
UN 1172 ...	102	2-Ethoxyethyl acetate	UN 1246 ...	102	Methyl isopropenyl ketone	UN 1314 ...	102	Calcium resinate
UN 1172 ...	101	Ethylene glycol monoethyl ether acetate	UN 1246 ...	101	Methyl isopropenyl ketone, inhibited	UN 1314 ...	101	Calcium resinate, fused
UN 1173 ...	101	Ethyl acetate	UN 1247 ...	102	Methyl methacrylate	UN 1318 ...	102	Cobalt resinate
UN 1175 ...	101	Ethyl benzene	UN 1247 ...	101	Methyl methacrylate monomer, inhibited	UN 1318 ...	101	Cobalt resinate, precipitated
UN 1175 ...	102	Ethylbenzene	NA 1247 ...	101	Methyl methacrylate monomer, uninhibited	UN 1320 ...	102	Dinitrophenol
UN 1176 ...	101	Ethyl borate	UN 1248 ...	101	Methyl propionate	UN 1321 ...	102	Dinitrophenolates
UN 1177 ...	102	Ethylbutyl acetate	UN 1249 ...	101	Methyl propyl ketone	UN 1322 ...	102	Dinitrosorcinols
UN 1177 ...	101	Ethyl butyl acetate	UN 1250 ...	101	Methylnichlorosilane	UN 1323 ...	102	Ferrocenium
UN 1178 ...	102	2-Ethylbutyraldehyde	UN 1251 ...	102	Methyl vinyl ketone	NA 1324 ...	101	Film
UN 1178 ...	101	Ethyl butyl ether	UN 1251 ...	101	Methyl vinyl ketone, inhibited	UN 1324 ...	102	Film, motion picture
UN 1180 ...	101	Ethyl butyrate	UN 1255 ...	102	Naphtha, petroleum	NA 1325 ...	101	Antimony sulfide, solid
UN 1181 ...	101	Ethyl chloroacetate	UN 1255 ...	101	Petroleum naphtha	NA 1325 ...	101	Burnt cotton, not repicked
UN 1182 ...	101	Ethyl chloroformate	UN 1258 ...	101	Naphtha, solvent	NA 1325 ...	101	Cosmetics, n.o.s.
UN 1183 ...	101	Ethyl dichlorosilane	UN 1257 ...	102	Casinghead gasoline	NA 1325 ...	101	Drugs, n.o.s.
UN 1183 ...	102	Ethyltrichlorosilane	UN 1259 ...	101	Nickel carbonyl	UN 1325 ...	101	Flammable solid, n.o.s.
UN 1184 ...	101	Ethylene dichloride	UN 1281 ...	101	Nitromethane	UN 1325 ...	102	Flammable solids, n.o.s.
UN 1185 ...	102	Ethylenimine	UN 1262 ...	101	Isocitane	NA 1325 ...	101	Fuses
UN 1185 ...	101	Ethylene imine, inhibited	UN 1262 ...	101	Octane	NA 1325 ...	101	Garbage tankage
UN 1186 ...	101	Ethylene glycol monomethyl ether	NA 1263 ...	101	Compound, enamel	NA 1325 ...	101	N-Methyl-N'-nitro-N-nitrosoguanidine
UN 1189 ...	101	Ethylene glycol monomethyl ether acetate	UN 1263 ...	101	Lacquer base or Lacquer chips, plastic	NA 1325 ...	101	Paper stock, wet
UN 1190 ...	101	Ethyl formate	UN 1263 ...	101	Mortar stain, liquid	NA 1325 ...	101	Reqs, wet
UN 1191 ...	102	Ethyl hexaldehyde	UN 1263 ...	101	Paint, Enamel, Lacquer, Stain, Shellac, or Varnish; Aluminum, Bronze, Gold, Wood filler, liquid or Lacquer base, liquid	NA 1325 ...	101	Rough ammoniate tankage
UN 1191 ...	101	Ethylhexaldehyde	UN 1263 ...	102	Paint, enamel, lacquer, stain, shellac, varnish, polish, filler (liquid), lacquer base or thinner	NA 1325 ...	101	Smokeless powder for small arms
UN 1192 ...	101	Ethyl lactate	UN 1264 ...	101	Paraldehyde	NA 1325 ...	101	Tankage fertilizer
UN 1193 ...	101	Ethyl methyl ketone	UN 1265 ...	101	Isopentane	NA 1325 ...	101	Tankage, rough ammoniate
UN 1193 ...	101	Methyl ethyl ketone	UN 1265 ...	101	Pentane	NA 1325 ...	101	Waste paper, wet
UN 1194 ...	102	Ethyl nitrite	UN 1268 ...	102	Perfumery products	(UN 1325) ...	102	Zirconium
UN 1194 ...	101	Ethyl nitrite (nitrous ether)	UN 1267 ...	101	Crude oil, petroleum	UN 1326 ...	102	Hafnium metal powder, wet
UN 1195 ...	101	Ethyl propionate	UN 1267 ...	102	Petroleum crude oil	UN 1326 ...	101	Hafnium metal, wet
UN 1196 ...	101	Ethyl trichlorosilane	NA 1268 ...	101	Naphtha distillate	UN 1327 ...	102	Bhusa
UN 1196 ...	102	Ethyltrichlorosilane	UN 1268 ...	101	Petroleum distillate	UN 1327 ...	101	Hay
UN 1197 ...	101	Extract, liquid, flavoring	UN 1268 ...	102	Petroleum distillates, n.o.s.	UN 1327 ...	101	Hay or straw
UN 1197 ...	102	Extracts	UN 1268 ...	101	Road oil	UN 1327 ...	102	Straw
UN 1198 ...	102	Formaldehyde	NA 1268 ...	101	Oil	UN 1327 ...	102	Straw
UN 1198 ...	101	Formaldehyde solution	NA 1270 ...	101	Petroleum oil	UN 1328 ...	102	Hexamine
UN 1199 ...	101	Furfural	UN 1270 ...	102	Petroleum ether	UN 1330 ...	102	Manganese resinate
UN 1201 ...	101	Fusel oil	UN 1271 ...	101	Petroleum spirit	UN 1331 ...	102	Matches
UN 1202 ...	102	Gas oil	UN 1272 ...	101	Pine oil	UN 1331 ...	101	Matches, strike anywhere
UN 1203 ...	101	Gasoline	UN 1274 ...	102	Propanol	UN 1332 ...	102	Metalddehyde
NA 1203 ...	101	Motor fuel, n.o.s.	UN 1274 ...	101	Propyl alcohol	UN 1333 ...	102	Mischmetal
UN 1204 ...	102	Glycerol trinitrate	UN 1275 ...	101	Propionaldehyde	UN 1334 ...	102	Naphthalene
NA 1204 ...	101	Spirits of nitroglycerin	UN 1276 ...	102	n-Propyl acetate	UN 1334 ...	101	Naphthalene or Naphthalin
NA 1204 ...	101	Spirits of nitroglycerin, not exceeding 1% nitroglycerin by weight	UN 1276 ...	101	Propyl acetate	UN 1336 ...	102	Nitroguanidine
UN 1205 ...	102	Gutta percha	UN 1276 ...	101	Propyl acetate	UN 1336 ...	101	Nitroguanidine, wet with not less than 20% water
UN 1206 ...	101	Heptane				UN 1337 ...	102	Nitrostarach
UN 1207 ...	101	Hexaldehyde				UN 1337 ...	101	Nitrostarach, wet with not less than 20% water
UN 1208 ...	101	Hexane				NA 1337 ...	101	Nitrostarach, wet with not less than 30% alcohol or solvent

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 1339 ...	101	Phosphorus heptasulfide	UN 1382 ...	101	Potassium sulfide	UN 1447 ...	101	Barium perchlorate
UN 1339 ...	102	Phosphorus heptasulfide	UN 1382 ...	102	Potassium sulphide	UN 1448 ...	101	Barium permanganate
UN 1340 ...	101	Phosphorus pentasulfide	NA 1383 ...	101	Iron mass or sponge	UN 1449 ...	102	Barium peroxide
UN 1340 ...	102	Phosphorus pentasulfide	UN 1383 ...	102	Pyrophoric alloys	UN 1449 ...	101	Barium peroxide
UN 1341 ...	101	Phosphorus sesquisulfide	UN 1383 ...	102	Pyrophoric metals	UN 1450 ...	102	Bromates
UN 1341 ...	102	Phosphorus sesquisulfide	UN 1384 ...	102	Sodium dithionite	UN 1451 ...	102	Caesium nitrate
UN 1343 ...	101	Phosphorus trisulfide	UN 1384 ...	101	Sodium hydrosulfite	UN 1452 ...	101	Calcium chlorate
UN 1343 ...	102	Phosphorus trisulfide	UN 1385 ...	101	Sodium sulfide, anhydrous	UN 1453 ...	101	Calcium chlorite
UN 1344 ...	102	Picric acid	UN 1385 ...	102	Sodium sulphide	UN 1454 ...	101	Calcium nitrate
NA 1344 ...	101	Picric acid, wet, with not less than 10% water	UN 1386 ...	102	Seed cake	UN 1455 ...	102	Calcium perchlorate
UN 1345 ...	102	Rubber scrap	UN 1387 ...	101	Waste wool, wet	UN 1456 ...	101	Calcium permanganate
UN 1345 ...	101	Rubber scrap or Rubber buffings	UN 1387 ...	102	Wool waste	UN 1457 ...	101	Calcium peroxide
UN 1345 ...	101	Rubber shoddy or Rubber, regenerated or Rubber, reclaimed	UN 1389 ...	102	Alkali metal amalgams, n.o.s.	UN 1458 ...	102	Borate and chlorate
UN 1346 ...	102	Silicon powder	UN 1390 ...	102	Alkali metal amides, n.o.s.	UN 1458 ...	101	Chlorate and borate mixture
UN 1348 ...	102	Sodium dinitro-o-cresolate	UN 1391 ...	102	Alkali metal dispersions, n.o.s.	UN 1459 ...	102	Chlorate and magnesium chloride
UN 1349 ...	102	Sodium picramate	UN 1393 ...	102	Alloys of alkaline earth metals	UN 1459 ...	101	Chlorate and magnesium chloride mixture
UN 1349 ...	101	Sodium picramate, wet	UN 1394 ...	102	Aluminium carbide	UN 1461 ...	101	Chlorate, n.o.s.
UN 1350 ...	101	Sulfur, solid	UN 1395 ...	102	Aluminium ferrosilicon	NA 1461 ...	101	Chlorate, n.o.s., wet
UN 1350 ...	102	Sulphur	UN 1395 ...	102	Aluminium	UN 1461 ...	102	Chlorates
UN 1352 ...	102	Titanium metal powder, wet	UN 1396 ...	101	Aluminium, metallic, powder	UN 1462 ...	102	Chlorites
UN 1352 ...	101	Titanium metal powder, wet with 20% or more water	UN 1397 ...	102	Aluminium phosphide	NA 1463 ...	101	Chromic acid mixture, dry
UN 1353 ...	102	Toe puffs	UN 1397 ...	101	Aluminium phosphide	NA 1463 ...	101	Chromic acid, solid
UN 1354 ...	102	Trinitrobenzene	UN 1398 ...	102	Aluminium silicon	UN 1463 ...	102	Chromium trioxide
UN 1354 ...	101	Trinitrobenzene, wet	UN 1399 ...	102	Barium	UN 1464 ...	102	Dichromates
UN 1355 ...	102	Trinitrobenzoic acid	UN 1400 ...	102	Barium	UN 1465 ...	102	Didymium nitrate
UN 1355 ...	101	Trinitrobenzoic acid, wet	UN 1401 ...	101	Calcium	UN 1466 ...	101	Ferroc nitrate
UN 1356 ...	102	Trinitrotoluene	NA 1401 ...	101	Calcium, metal, crystalline	UN 1467 ...	101	Guanidine nitrate
UN 1356 ...	101	Trinitrotoluene, wet	UN 1402 ...	101	Calcium carbide	UN 1469 ...	101	Lead nitrate
UN 1357 ...	102	Urea nitrate	UN 1403 ...	102	Calcium cyanamide	UN 1470 ...	102	Lead perchlorate
UN 1357 ...	101	Urea nitrate, wet	UN 1403 ...	101	Calcium cyanamide, not hydrated	UN 1471 ...	102	Lithium hypochlorite
UN 1358 ...	102	Zirconium metal powder, wet	UN 1404 ...	102	Calcium hydride	UN 1471 ...	101	Lithium hypochlorite compound, dry
UN 1358 ...	101	Zirconium metal, wet	UN 1405 ...	102	Calcium silicide	UN 1472 ...	101	Lithium peroxide
UN 1359 ...	102	Bags	UN 1406 ...	102	Calcium silicon	UN 1473 ...	102	Magnesium bromate
UN 1359 ...	101	Bags, sodium nitrate, empty and unwashed	UN 1407 ...	102	Caesium	UN 1474 ...	101	Magnesium nitrate
UN 1360 ...	101	Calcium phosphide	UN 1407 ...	101	Cesium metal	UN 1475 ...	101	Magnesium perchlorate
UN 1361 ...	102	Carbon, non-activated	UN 1408 ...	101	Ferrosilicon	UN 1476 ...	102	Magnesium peroxide
NA 1361 ...	101	Charcoal briquettes or briquets	UN 1409 ...	102	Hydrides	UN 1476 ...	101	Magnesium peroxide, solid
NA 1361 ...	101	Charcoal screenings, made from 'pinon' wood	UN 1410 ...	102	Lithium aluminium hydride	NA 1477 ...	101	Ammonium sulfate nitrate
NA 1361 ...	101	Charcoal, shell	UN 1410 ...	101	Lithium aluminium hydride	NA 1477 ...	101	Nitrate, n.o.s.
NA 1361 ...	101	Charcoal, wood, ground, crushed, granulated, or pulverized	UN 1411 ...	102	Lithium aluminium hydride	UN 1477 ...	102	Nitrates
NA 1361 ...	101	Charcoal, wood, lump	UN 1411 ...	101	Lithium aluminium hydride, ethereal	UN 1478 ...	102	Sodium nitrate and potash Compound, tree or weed killing, solid
NA 1361 ...	101	Charcoal wood screenings, other than 'pinon' wood screenings	UN 1412 ...	102	Lithium amide	NA 1479 ...	101	Cosmetics, n.o.s.
NA 1361 ...	101	Coal ground bituminous, sea coal, coal facings	UN 1412 ...	101	Lithium amide, powdered	NA 1479 ...	101	Cupric nitrate
UN 1362 ...	102	Carbon, activated	UN 1413 ...	101	Lithium borohydride	NA 1479 ...	101	Drugs, n.o.s.
UN 1362 ...	101	Charcoal, activated	UN 1414 ...	101	Lithium hydride	NA 1479 ...	101	Manganese dioxide
UN 1363 ...	101	Copra	UN 1415 ...	102	Lithium	UN 1479 ...	101	Oxidizer, n.o.s. or Oxidizing material, n.o.s.
UN 1364 ...	102	Cotton waste	UN 1415 ...	101	Lithium metal	UN 1479 ...	102	Oxidizing substances, n.o.s.
UN 1364 ...	101	Cotton waste, oily	UN 1415 ...	101	Lithium metal, in cartridges	NA 1479 ...	101	Potassium dichromate
UN 1365 ...	102	Cotton	UN 1417 ...	101	Lithium silicon	UN 1479 ...	101	Sodium dichromate
UN 1366 ...	102	Diethylzinc	UN 1418 ...	102	Magnesium	UN 1480 ...	102	Perborates
UN 1367 ...	102	Diethylmagnesium	UN 1418 ...	102	Magnesium alloys	NA 1481 ...	101	Perchlorate, n.o.s.
UN 1368 ...	102	Dimethylmagnesium	UN 1419 ...	102	Magnesium aluminium phosphide	UN 1481 ...	102	Perchlorates
UN 1369 ...	102	Dimethyl-p-nitrosaniline	UN 1420 ...	101	Magnesium aluminium phosphide	NA 1482 ...	101	Permanganate, n.o.s.
UN 1369 ...	102	p-Nitrosodimethylaniline	UN 1420 ...	102	Potassium, metal alloys	UN 1482 ...	102	Pernanganates
UN 1370 ...	102	Diethylzinc	UN 1421 ...	102	Potassium, metal liquid alloy	UN 1483 ...	102	Peroxides
UN 1371 ...	102	Driers	UN 1421 ...	101	Alkali metals	UN 1484 ...	101	Potassium bromate
NA 1372 ...	101	Burnt fiber	NA 1421 ...	101	Sodium, metal liquid alloy	UN 1485 ...	101	Potassium chlorate
NA 1372 ...	101	Fibers	UN 1422 ...	102	Potassium-sodium	UN 1486 ...	101	Potassium nitrate
UN 1372 ...	102	Fibres	UN 1422 ...	101	Sodium potassium alloy, liquid	UN 1487 ...	102	Potassium nitrate and sodium nitrite
NA 1372 ...	101	Hair, wet	UN 1422 ...	101	Sodium potassium alloy, solid	UN 1487 ...	101	Sodium nitrite mixed with potassium nitrate
UN 1373 ...	102	Fabric	UN 1423 ...	102	Rubidium	NA 1487 ...	101	Sodium nitrite mixture
NA 1373 ...	101	Fibers or fabric, containing not more than 5% animal or vegetable oil	UN 1423 ...	101	Rubidium metal, in cartridges	UN 1488 ...	101	Potassium nitrite
UN 1373 ...	102	Fibres	UN 1424 ...	102	Sodium amalgam	UN 1489 ...	101	Potassium perchlorate
UN 1374 ...	102	Fishmeal or fish scrap	UN 1425 ...	101	Sodium amide	UN 1490 ...	101	Potassium permanganate
NA 1374 ...	101	Fish meal or fish scrap containing less than 6% or more than 12% water	UN 1426 ...	102	Sodium borohydride	UN 1491 ...	101	Potassium peroxide
UN 1375 ...	102	Pyrophoric fuel, n.o.s.	UN 1427 ...	101	Sodium hydride	UN 1492 ...	102	Potassium persulphate
UN 1376 ...	101	Iron mass or sponge, spent	UN 1428 ...	102	Sodium	UN 1493 ...	101	Silver nitrate
UN 1376 ...	102	Iron oxide	UN 1428 ...	101	Sodium, metal or metallic	UN 1494 ...	101	Sodium bromate
UN 1378 ...	102	Nickel catalyst	UN 1429 ...	102	Sodium	UN 1495 ...	101	Sodium chlorate
UN 1378 ...	101	Nickel catalyst, wet	UN 1429 ...	101	Sodium, metal dispersion in organic solvent	UN 1496 ...	101	Sodium chlorite
UN 1379 ...	102	Paper	UN 1431 ...	102	Sodium methylate	UN 1498 ...	101	Sodium nitrate
UN 1380 ...	101	Pentaborane	UN 1431 ...	101	Sodium methylate, dry	UN 1499 ...	102	Sodium nitrate and potassium nitrate
UN 1381 ...	102	Phosphorus	UN 1432 ...	101	Sodium phosphide	UN 1500 ...	101	Sodium nitrite
UN 1381 ...	101	Phosphorus, white or yellow, dry	UN 1433 ...	101	Stannic phosphide	UN 1502 ...	101	Sodium perchlorate
UN 1381 ...	101	Phosphorus, white or yellow, in water	UN 1433 ...	102	Stannic phosphides	UN 1503 ...	101	Sodium permanganate
UN 1382 ...	102	Alkaline earth metal amalgams, n.o.s.	UN 1434 ...	102	Strontium	UN 1504 ...	101	Sodium peroxide
			UN 1435 ...	102	Zinc ashes	UN 1505 ...	102	Sodium persulphate
			UN 1436 ...	102	Zinc	UN 1506 ...	101	Strontium chlorate
			UN 1437 ...	101	Zirconium hydride	UN 1506 ...	101	Strontium chlorate, wet
			UN 1438 ...	102	Aluminium nitrate	UN 1507 ...	101	Strontium nitrate
			UN 1439 ...	101	Aluminium nitrate	UN 1508 ...	102	Strontium perchlorate
			UN 1439 ...	101	Ammonium dichromate	UN 1509 ...	101	Strontium peroxide
			UN 1442 ...	101	Ammonium perchlorate	UN 1510 ...	101	Tetranitromethane
			UN 1444 ...	102	Ammonium persulphate	UN 1511 ...	102	Urea hydrogen peroxide
			UN 1445 ...	101	Barium chlorate	NA 1511 ...	101	Urea peroxide
			NA 1445 ...	101	Barium chlorate, wet			
			UN 1446 ...	101	Barium nitrate			

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 1512 ...	101	Zinc ammonium nitrite	NA 1583 ...	101	Chloropicrin, absorbed	UN 1634 ...	102	Mercury bromides
UN 1513 ...	101	Zinc chlorate	UN 1583 ...	101	Chloropicrin mixture	UN 1636 ...	101	Mercuric cyanide, solid
UN 1514 ...	101	Zinc nitrate	UN 1583 ...	102	Chloropicrin mixtures, n.o.s.	UN 1636 ...	102	Mercury cyanide
UN 1515 ...	101	Zinc permanganate	UN 1584 ...	102	Cocculus	UN 1637 ...	101	Mercurous gluconate, solid
UN 1516 ...	101	Zinc peroxide	UN 1584 ...	101	Cocculus, solid	UN 1637 ...	102	Mercury gluconate
UN 1517 ...	102	Zirconium picramate	UN 1585 ...	102	Copper acetoarsenite	UN 1638 ...	101	Mercuric iodide, solid
UN 1517 ...	101	Zirconium picramate, wet	UN 1585 ...	101	Copper acetoarsenite, solid	UN 1638 ...	101	Mercuric iodide, solution
UN 1541 ...	101	Acetone cyanohydrin	UN 1586 ...	102	Copper arsenite	UN 1638 ...	101	Mercurous iodide, solid
UN 1542 ...	102	Aldrin	UN 1586 ...	101	Copper arsenite, solid	UN 1638 ...	102	Mercury iodide
UN 1544 ...	102	Alkaloids	UN 1587 ...	101	Copper cyanide	UN 1639 ...	101	Mercural or Mercury nucleate, solid
UN 1545 ...	102	Allyl isothiocyanate	UN 1588 ...	101	Cyanide or cyanide mixture, dry	UN 1639 ...	102	Mercury nucleate
UN 1546 ...	102	Ammonium arsenate	UN 1588 ...	102	Cyanides	UN 1640 ...	101	Mercuric oleate, solid
UN 1546 ...	101	Ammonium arsenate, solid	UN 1589 ...	101	Cyanogen chloride	UN 1640 ...	102	Mercury oleate
UN 1547 ...	102	Aniline	UN 1590 ...	102	Dichloroanilines	UN 1641 ...	101	Mercuric oxide, solid
UN 1547 ...	101	Aniline oil, liquid	UN 1591 ...	101	Dichlorobenzene, ortho, liquid	UN 1641 ...	101	Mercurous oxide, black, solid
UN 1548 ...	102	Aniline hydrochloride	UN 1591 ...	102	Dichlorobenzenes	UN 1641 ...	102	Mercury oxide
UN 1549 ...	102	Antimony compounds	UN 1592 ...	101	Dichlorobenzene, para, solid	UN 1642 ...	101	Mercuric oxycyanide, solid
NA 1549 ...	101	Antimony tribromide, solid	UN 1592 ...	102	p-Dichlorobenzene	UN 1642 ...	102	Mercury cyanide
NA 1549 ...	101	Antimony tribromide solution	UN 1593 ...	102	Dichloromethane	UN 1643 ...	101	Mercuric potassium iodide, solid
NA 1549 ...	101	Antimony trifluoride, solid	UN 1593 ...	101	Dichloromethane or Methylene chloride	UN 1643 ...	102	Mercury potassium iodide
NA 1549 ...	101	Antimony trifluoride solution				UN 1644 ...	101	Mercuric salicylate solid
UN 1550 ...	102	Antimony lactate	UN 1594 ...	102	Diethyl sulphate	UN 1644 ...	102	Mercury salicylate
UN 1550 ...	101	Antimony lactate, solid	UN 1595 ...	101	Dimethyl sulfate	UN 1645 ...	101	Mercuric sulfate, solid
UN 1551 ...	102	Antimony potassium tartrate	UN 1595 ...	102	Dimethyl sulphate	UN 1645 ...	102	Mercuric sulphate
UN 1551 ...	101	Antimony potassium tartrate, solid	UN 1596 ...	102	Dinitroanilines	UN 1646 ...	101	Mercuric sulfoacrylate, solid or Mercuric thiocyanate, solid
UN 1553 ...	102	Arsenic acid	UN 1597 ...	102	Dinitrobenzenes	UN 1646 ...	102	Mercury thiocyanate
UN 1553 ...	101	Arsenic acid solution	UN 1597 ...	101	Dinitrobenzene, solid, or Dinitrobenzol, solid	UN 1647 ...	102	Methyl bromide and ethylene dibromide
UN 1554 ...	102	Arsenic acid	UN 1597 ...	101	Dinitrobenzene solution	UN 1647 ...	101	Methyl bromide - ethylene dibromide mixture, liquid
UN 1554 ...	101	Arsenic acid, solid	UN 1598 ...	102	4,6-Dinitro-o-cresol	NA 1648 ...	101	Acetonitrile
UN 1555 ...	102	Arsenic bromide	UN 1599 ...	101	Dinitrophenol	UN 1648 ...	102	Methyl cyanide
UN 1555 ...	101	Arsenic bromide, solid	UN 1599 ...	102	Dinitrophenol solution	UN 1649 ...	101	Motor fuel antiknock compound or Antiknock compound
UN 1556 ...	101	Arsenical compound, liquid, n.o.s. or Arsenical mixture, liquid, n.o.s.	UN 1600 ...	101	Dinitrotoluene, liquid	UN 1649 ...	102	Motor fuel anti-knock mixtures
UN 1556 ...	102	Arsenic compounds	UN 1600 ...	102	Dinitrotoluenes	UN 1649 ...	101	Tetraethyl lead, liquid
NA 1556 ...	101	Methyldichloroarsine	UN 1601 ...	101	Disinfectant, liquid	UN 1650 ...	102	Naphthylamine
NA 1556 ...	101	Phenyldichloroarsine	UN 1601 ...	102	Disinfectants	UN 1651 ...	102	alpha-Naphthylthiourea
UN 1557 ...	101	Arsenical compound, solid, n.o.s. or Arsenical mixture, solid, n.o.s.	UN 1601 ...	102	Germicides	UN 1652 ...	102	Naphthylurea
NA 1557 ...	101	Arsenical dp, liquid	(UN 1601) ...	102	Dye intermediates	UN 1653 ...	102	Nickel cyanide
UN 1557 ...	102	Arsenic compounds	UN 1602 ...	102	Ethyl bromoacetate	UN 1653 ...	101	Nickel cyanide, solid
NA 1557 ...	101	Arsenic iodide, solid	UN 1603 ...	102	Ethyl bromoacetate	UN 1654 ...	102	Nicotine
NA 1557 ...	101	Arsenic sulfide, solid	UN 1604 ...	101	Ethylendiamine	UN 1654 ...	101	Nicotine, liquid
NA 1557 ...	101	Arsenic trisulfide	UN 1605 ...	101	Ethylene dibromide	UN 1655 ...	102	Nicotin
UN 1558 ...	102	Arsenic, metallic	UN 1606 ...	102	Ferric arsenate	UN 1656 ...	101	Nicotine hydrochloride
UN 1558 ...	101	Arsenic, solid	UN 1606 ...	101	Ferric arsenate, solid	UN 1657 ...	101	Nicotine salicylate
UN 1559 ...	102	Arsenic pentoxide	UN 1607 ...	102	Ferric arsenite	UN 1658 ...	101	Nicotina sulfate, liquid
UN 1559 ...	101	Arsenic pentoxide, solid	UN 1607 ...	101	Ferric arsenite, solid	UN 1658 ...	101	Nicotine sulfate, solid
UN 1560 ...	102	Arsenic trichloride	UN 1608 ...	102	Ferrous arsenate	UN 1658 ...	102	Nicotine sulphate
UN 1560 ...	101	Arsenic trichloride, liquid	UN 1608 ...	101	Ferrous arsenate, solid	UN 1659 ...	101	Nicotine tartrate
UN 1561 ...	102	Arsenic trioxide	UN 1609 ...	102	Fungicides	UN 1660 ...	101	Nitric acid
UN 1561 ...	101	Arsenic trioxide, solid	UN 1610 ...	102	Halogenated irritating liquids, n.o.s.	UN 1661 ...	101	Nitroaniline
UN 1562 ...	101	Arsenical dust	UN 1611 ...	102	Hexaethyl tetraphosphate	UN 1661 ...	102	Nitroanilines
UN 1564 ...	102	Barium compounds, n.o.s.	UN 1611 ...	101	Hexaethyl tetraphosphate, liquid	UN 1662 ...	102	Nitrobenzene
UN 1565 ...	102	Barium cyanide	UN 1612 ...	102	Hexaethyl tetraphosphate	UN 1662 ...	101	Nitrobenzene, liquid or Nitrobenzol, liquid
UN 1565 ...	101	Barium cyanide, solid	UN 1612 ...	101	Hexaethyl tetraphosphate and compressed gas mixture	UN 1663 ...	101	Nitrophenol
NA 1566 ...	101	Beryllium chloride	UN 1613 ...	102	Hydrocyanic acid	UN 1663 ...	102	Nitrophenols
UN 1566 ...	101	Beryllium compound, n.o.s.	UN 1613 ...	101	Hydrocyanic acid solution	UN 1664 ...	101	Nitrotoluene
UN 1566 ...	102	Beryllium compounds	UN 1613 ...	101	Hydrocyanic acid solution, less than 5% hydrocyanic acid	UN 1664 ...	102	Nitrotoluenes
NA 1566 ...	101	Beryllium fluoride				UN 1665 ...	102	Nitroxylenes
UN 1567 ...	102	Beryllium	UN 1614 ...	102	Hydrogen cyanide	NA 1665 ...	101	Nitroxylol
UN 1568 ...	102	Bordeaux arsenites	UN 1615 ...	102	Insecticides, n.o.s.	UN 1666 ...	102	Parathion
UN 1569 ...	102	Bromoacetone	UN 1616 ...	101	Lead acetate	UN 1669 ...	102	Pentachloroethane
UN 1569 ...	101	Bromoacetone, liquid	UN 1617 ...	102	Lead arsenates	UN 1670 ...	101	Perchloromethyl mercaptan
UN 1570 ...	102	Brucine	UN 1617 ...	101	Lead arsenate, solid	UN 1670 ...	102	Perchloromethyl-mercaptan
UN 1570 ...	101	Brucine, solid	UN 1618 ...	102	Lead arsenites	UN 1671 ...	101	Phenol
UN 1571 ...	102	Barium azide, wet	UN 1618 ...	101	Lead arsenite, solid	UN 1672 ...	102	Phenylcarbamylamine chloride
UN 1572 ...	102	Cacodylic acid	UN 1620 ...	101	Lead cyanide	UN 1673 ...	101	Phenylenediamine, meta or para, solid
UN 1573 ...	102	Calcium arsenate	UN 1621 ...	102	London purple	UN 1673 ...	102	Phenylenediamines
UN 1573 ...	101	Calcium arsenate, solid	UN 1621 ...	101	London purple, solid	UN 1674 ...	102	Phenylmercuric acetate
UN 1574 ...	102	Calcium arsenate and arsenite	UN 1622 ...	102	Magnesium arsenate	UN 1677 ...	102	Potassium arsenate
NA 1574 ...	101	Calcium arsenite, solid	UN 1622 ...	101	Magnesium arsenate, solid	UN 1677 ...	101	Potassium arsenate, solid
UN 1575 ...	102	Calcium cyanide	UN 1623 ...	102	Mercuric arsenate	UN 1678 ...	102	Potassium arsenite
UN 1575 ...	101	Calcium cyanide, solid or Calcium cyanide mixture, solid	UN 1624 ...	102	Mercuric chloride	UN 1678 ...	101	Potassium arsenite, solid
UN 1577 ...	102	Chlorodinitrobenzene	UN 1624 ...	101	Mercuric chloride, solid	UN 1679 ...	102	Potassium cuprocyanide
UN 1577 ...	101	Dinitrochlorobenzene	UN 1625 ...	101	Mercuric nitrate	UN 1680 ...	102	Potassium cyanide
UN 1578 ...	102	Chloronitrobenzenes	UN 1626 ...	102	Mercuric potassium cyanide	UN 1680 ...	101	Potassium cyanide, solid
UN 1578 ...	101	Nitrochlorobenzene, meta or para solid	UN 1626 ...	101	Mercuric potassium cyanide, solid	UN 1680 ...	101	Potassium cyanide solution
UN 1578 ...	101	Nitrochlorobenzene, ortho, liquid	UN 1627 ...	101	Mercurous nitrate, solid	UN 1681 ...	102	Rodenticides, n.o.s.
UN 1579 ...	102	4-Chloro-o-toluidine hydrochloride	UN 1628 ...	102	Mercurous sulfate, solid	UN 1682 ...	102	Sheep dips
UN 1579 ...	101	4-Chloro-o-toluidine hydrochloride	UN 1628 ...	101	Mercurous sulphate	UN 1683 ...	102	Silver arsenite
UN 1580 ...	102	Chloropicrin	UN 1629 ...	101	Mercuric acetate	UN 1684 ...	101	Silver cyanide
UN 1580 ...	101	Chloropicrin, liquid	UN 1629 ...	102	Mercury acetate	UN 1685 ...	101	Sodium arsenate
UN 1581 ...	102	Chloropicrin and methyl bromide	UN 1630 ...	101	Mercuric ammonium chloride, solid	UN 1686 ...	102	Sodium arsenite
NA 1581 ...	101	Methyl bromide and more than 2% chloropicrin mixture, liquid	UN 1630 ...	102	Mercury ammonium chloride	UN 1686 ...	101	Sodium arsenite, liquid
UN 1582 ...	102	Chloropicrin and methyl chloride	UN 1631 ...	101	Mercuric benzoate, solid	UN 1687 ...	101	Sodium azide
UN 1582 ...	101	Chloropicrin and methyl chloride mixture	UN 1631 ...	102	Mercury benzoate	UN 1688 ...	102	Sodium cacodylate
			UN 1633 ...	102	Mercury bisulphate			
			UN 1634 ...	101	Mercuric bromide, solid			
			UN 1634 ...	101	Mercurous bromide, solid			

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 1689 ...	102	Sodium cyanide	UN 1743 ...	102	Boron trifluoride propionic acid complex	UN 1789 ...	101	Diphenyl dichlorosilane
UN 1689 ...	101	Sodium cyanide, solid	UN 1744 ...	101	Bromine	UN 1770 ...	102	Diphenylmethyl bromide
UN 1689 ...	101	Sodium cyanide solution	UN 1745 ...	101	Bromine pentafluoride	UN 1770 ...	101	Diphenyl methyl bromide, solid
UN 1690 ...	102	Sodium fluoride	UN 1746 ...	101	Bromine trifluoride	UN 1770 ...	101	Diphenyl methyl bromide solution
UN 1690 ...	101	Sodium fluoride, solid	UN 1747 ...	101	Butyl trichlorosilane	UN 1771 ...	101	Dodecyl trichlorosilane
UN 1690 ...	101	Sodium fluoride, solution	UN 1748 ...	102	Calcium hypochlorite	UN 1773 ...	102	Ferric chloride
UN 1691 ...	102	Strontium arsenite	UN 1748 ...	101	Calcium hypochlorite mixture	UN 1773 ...	101	Ferric chloride, solid
UN 1691 ...	101	Strontium arsenite, solid	UN 1749 ...	101	Chlorine trifluoride	UN 1774 ...	101	Fire extinguisher charge containing sulfuric acid
UN 1692 ...	102	Strychnine	UN 1750 ...	102	Chloroacetic acid	UN 1774 ...	102	Fire extinguisher charges
UN 1692 ...	101	Strychnine salt, solid	UN 1750 ...	101	Chloroacetic acid, liquid or solution	UN 1775 ...	101	Fluoboric acid
UN 1692 ...	101	Strychnine, solid	UN 1751 ...	102	Chloroacetic acid	UN 1776 ...	102	Fluorophosphoric acid
NA 1693 ...	101	Irritating agent, n.o.s.	UN 1751 ...	101	Chloroacetic acid, solid	UN 1776 ...	101	Monofluorophosphoric acid, anhydrous
UN 1693 ...	101	ORM-A, n.o.s.	UN 1752 ...	101	Chloroacetyl chloride	UN 1777 ...	101	Fluorosulfonic acid or Fluosulfonic acid
UN 1693 ...	102	Tear gas	UN 1753 ...	102	Chlorophenyl trichlorosilane	UN 1777 ...	102	Fluorosulphonic acid
UN 1694 ...	102	Bromobenzyl cyanide	UN 1753 ...	101	Chlorophenyltrichlorosilane	UN 1778 ...	102	Fluosilicic acid
UN 1695 ...	102	Chloroacetone	UN 1754 ...	101	Chlorosulfonic acid	NA 1778 ...	101	Hydrofluoroacetic acid
UN 1695 ...	101	Monochloroacetone, stabilized or inhibited	UN 1754 ...	101	Chlorosulfonic acid-sulfur trioxide mixture	UN 1779 ...	101	Formic acid
UN 1697 ...	102	Chloroacetophenone	UN 1754 ...	102	Chlorosulphonic acid	UN 1779 ...	101	Formic acid solution
UN 1697 ...	101	Chloroacetophenone, gas, liquid, or solid	UN 1755 ...	102	Dichloroacetyl chloride	UN 1780 ...	101	Fumaryl chloride
UN 1698 ...	101	Diphenylaminochloroarsine	UN 1755 ...	101	Chromic acid	UN 1781 ...	102	Hexadecyl trichlorosilane
UN 1699 ...	102	Diphenylchloroarsine	UN 1755 ...	102	Chromic acid solution	UN 1781 ...	101	Hexadecyltrichlorosilane
UN 1700 ...	101	Tear gas candle	UN 1756 ...	102	Chromic fluoride	UN 1782 ...	101	Hexafluorophosphoric acid
UN 1700 ...	102	Tear gas candles	UN 1757 ...	102	Chromic fluoride, solid	UN 1783 ...	102	Hexamethylenediamine
UN 1701 ...	101	Xylol bromide	UN 1757 ...	101	Chromic fluoride solution	UN 1783 ...	101	Hexamethylenediamine, solution
UN 1702 ...	102	1,1,2,2-Tetrachloroethane	UN 1758 ...	102	Chromium oxychloride	UN 1784 ...	102	Hexyl trichlorosilane
UN 1702 ...	101	Tetrachloroethane	UN 1758 ...	101	Chromium oxychloride or Chromyl chloride	UN 1784 ...	101	Hexyltrichlorosilane
UN 1703 ...	102	Tetraethyl dithiopyrophosphate	UN 1758 ...	101	Chromium oxychloride or Chromyl chloride	UN 1786 ...	102	Acid mixtures
UN 1703 ...	101	Tetraethyl dithiopyrophosphate and compressed gas mixture	UN 1759 ...	102	Cleaning compounds	UN 1786 ...	101	Hydrofluoric and sulfuric acid mixture
UN 1704 ...	102	Tetraethyl dithiopyrophosphate	UN 1759 ...	101	Corrosive solid, n.o.s.	UN 1787 ...	101	Hydroiodic acid
UN 1704 ...	101	Tetraethyl dithiopyrophosphate, liquid	(UN 1759), 102	Corrosive solids, n.o.s.	UN 1788 ...	101	Hydrobromic acid	
UN 1704 ...	101	Tetraethyl dithiopyrophosphate mixture, dry	NA 1759 ...	101	Cosmetics, solid, n.o.s.	UN 1788 ...	101	Hydrobromic acid not more than 49% strength
UN 1704 ...	101	Tetraethyl dithiopyrophosphate mixture, liquid	NA 1759 ...	101	Drugs, n.o.s.	NA 1789 ...	101	Compound, cleaning, liquid (containing hydrochloric (muriatic) acid)
UN 1705 ...	102	Tetraethyl pyrophosphate and compressed gas	NA 1759 ...	101	Ferrous chloride, solid	UN 1789 ...	101	Hydrochloric acid
UN 1705 ...	101	Tetraethyl pyrophosphate and compressed gas mixture	NA 1759 ...	101	Stannous chloride, solid	NA 1789 ...	101	Hydrochloric acid mixture
UN 1707 ...	102	Thallium compounds	NA 1760 ...	102	Alkaline corrosive liquids, n.o.s.	UN 1789 ...	101	Hydrochloric acid solution, inhibited
NA 1707 ...	101	Thallium salt, solid, n.o.s.	NA 1760 ...	101	Aluminum phosphate solution	NA 1790 ...	101	Compound, cleaning, liquid (containing hydrofluoric acid)
NA 1707 ...	101	Thallium sulfate, solid	NA 1760 ...	101	Aluminum sulfate solution	NA 1790 ...	101	Etching acid, liquid, n.o.s.
UN 1708 ...	102	Toluidines	NA 1760 ...	101	2-(2-Aminoethoxy) ethanol	UN 1790 ...	102	Hydrofluoric acid
UN 1709 ...	102	2,4-Toluylenediamine	NA 1760 ...	101	Aminopropylmethanamine	UN 1790 ...	101	Hydrofluoric acid solution
NA 1709 ...	101	Toluenediamine	NA 1760 ...	101	N-Aminopropylmorpholine	UN 1791 ...	102	Hypochlorite
UN 1710 ...	101	Trichloroethylene	NA 1760 ...	101	bis (Aminopropyl) piperazine	UN 1791 ...	101	Hypochlorite solution
UN 1711 ...	102	Xylidines	NA 1760 ...	101	Boiler compound, liquid	NA 1791 ...	101	Hypochlorite solution containing not more than 7% available chlorine
UN 1712 ...	101	Zinc arsenate	NA 1760 ...	101	Chemical kit	UN 1792 ...	101	Iodine monochloride
UN 1712 ...	102	Zinc arsenate and arsenite	NA 1760 ...	101	Compound, cleaning, liquid	UN 1793 ...	102	Isopropyl acid phosphate
UN 1712 ...	101	Zinc arsenite, solid	NA 1760 ...	101	Compound, lacquer, paint, or varnish removing, liquid	UN 1793 ...	101	Isopropyl acid phosphate, solid
UN 1713 ...	101	Zinc cyanide	NA 1760 ...	101	Compound, rust preventing or removing, liquid	NA 1794 ...	101	Lead dust
UN 1714 ...	101	Zinc phosphide	NA 1760 ...	101	Compound, rust preventing or removing, liquid	UN 1794 ...	101	Lead sulfate
UN 1715 ...	101	Acetic anhydride	NA 1760 ...	101	Compound, vulcanizing, liquid	UN 1794 ...	102	Acid mixtures
UN 1716 ...	101	Acetyl bromide	UN 1760 ...	102	Corrosive liquid, n.o.s.	UN 1796 ...	102	Nitrating acid
JN 1717 ...	101	Acetyl chloride	UN 1760 ...	101	Corrosive liquids, n.o.s.	NA 1796 ...	101	Nitrohydrochloric acid
UN 1718 ...	101	Acid butyl phosphate	NA 1760 ...	101	Cosmetics, liquid, n.o.s.	UN 1798 ...	101	Nitrohydrochloric acid, diluted
NA 1719 ...	101	Alkaline liquid, n.o.s.	NA 1760 ...	101	2,2-Dichloropropionic acid	UN 1798 ...	102	Nonyl trichlorosilane
UN 1719 ...	102	Cauls alkali liquids, n.o.s.	NA 1760 ...	101	Drugs, n.o.s. liquid	UN 1799 ...	101	Nonyltrichlorosilane
UN 1722 ...	101	Ailyl chlorocarbonate	NA 1760 ...	101	Ethyl phosphonothioic dichloride, anhydrous	UN 1799 ...	101	Octadecyl trichlorosilane
UN 1722 ...	102	Ailyl chloroformate	NA 1760 ...	101	Ethyl phosphorodichloridate	UN 1800 ...	102	Octadecyltrichlorosilane
UN 1723 ...	102	Ailyl iodide	NA 1760 ...	101	Ferrous chloride, solution	UN 1800 ...	101	Octyl trichlorosilane
UN 1724 ...	101	Ailyl trichlorosilane	NA 1760 ...	101	Flame retardant compound liquid	UN 1801 ...	102	Octyltrichlorosilane
UN 1725 ...	102	Aluminium bromide	NA 1760 ...	101	Hexanoic acid	UN 1801 ...	101	Perchloric acid
UN 1725 ...	101	Aluminium bromide, anhydrous	NA 1760 ...	101	Isopentanoic acid	UN 1802 ...	102	Perchloric acid, not over 50% acid
UN 1726 ...	102	Aluminium chloride	NA 1760 ...	101	Mentetrahydro phthalic anhydride	UN 1802 ...	101	Phenolsulphonic acid
UN 1727 ...	102	Ammonium hydrogen fluoride	NA 1760 ...	101	Methyl phosphonothioic dichloride, anhydrous	UN 1803 ...	102	Phenyl trichlorosilane
UN 1727 ...	101	Ammonium hydrogen fluoride, solid	NA 1760 ...	101	Morpholine, aqueous, mixture	UN 1804 ...	101	Phenyltrichlorosilane
UN 1728 ...	102	Amyl trichlorosilane	NA 1760 ...	101	Nitric acid, 40% or less	UN 1804 ...	101	o-Phosphoric acid
UN 1728 ...	101	Amyl trichlorosilane	NA 1760 ...	101	ORM-B, n.o.s.	UN 1805 ...	101	Phosphoric acid
UN 1729 ...	101	Anisoyl chloride	NA 1760 ...	101	Textile treating compound or mixture, liquid	UN 1806 ...	102	Phosphorus pentachloride
UN 1730 ...	101	Antimony pentachloride	NA 1760 ...	101	Titanium sulfate solution	UN 1806 ...	101	Phosphorus pentachloride, solid
UN 1731 ...	102	Antimony pentachloride	NA 1760 ...	101	Valeric acid	NA 1807 ...	101	Phosphorus anhydride
UN 1731 ...	101	Antimony pentachloride solution	UN 1760 ...	101	Water treatment compounds, liquid	UN 1807 ...	102	Phosphorus pentoxide
UN 1732 ...	101	Antimony pentafluoride	UN 1760 ...	101	White acid	UN 1808 ...	101	Phosphorus tribromide
UN 1733 ...	102	Antimony trichloride	UN 1760 ...	101	Cupriethylenediamine	UN 1809 ...	101	Phosphorus trichloride
UN 1733 ...	101	Antimony trichloride, solid	UN 1761 ...	102	Cupriethylene-diamine solution	UN 1810 ...	101	Phosphorus oxychloride
UN 1733 ...	101	Antimony trichloride solution	UN 1761 ...	101	Cyclohexenyl trichlorosilane	UN 1810 ...	102	Phosphoryl chloride
UN 1734 ...	102	Batteries	UN 1762 ...	101	Cyclohexyl trichlorosilane	UN 1811 ...	102	Potassium bifluoride
UN 1735 ...	102	Battery fluid	UN 1763 ...	101	Dichloroacetic acid	NA 1811 ...	101	Potassium hydrogen fluoride solution
UN 1736 ...	101	Benzoyl chloride	UN 1764 ...	101	Dichloroacetyl chloride	UN 1812 ...	101	Potassium fluoride
UN 1737 ...	101	Benzyl bromide	UN 1765 ...	101	Dichlorophenyl trichlorosilane	UN 1812 ...	101	Potassium fluoride solution
UN 1738 ...	101	Benzyl chloride	UN 1766 ...	102	Dichlorophenyltrichlorosilane	UN 1813 ...	102	Potassium hydroxide
UN 1739 ...	101	Benzyl chloroformate	UN 1766 ...	101	Diethyl dichlorosilane	UN 1813 ...	101	Potassium hydroxide, dry solid, flake, bead, or granular
UN 1740 ...	102	Bifluorides, n.o.s.	UN 1767 ...	101	Diffuorophosphoric acid	UN 1814 ...	102	Potassium hydroxide
UN 1741 ...	101	Boron trichloride	UN 1768 ...	102	Diffuorophosphoric acid, anhydrous	UN 1814 ...	101	Potassium hydroxide, liquid or solution
UN 1742 ...	102	Boron trifluoride acetic acid complex						
UN 1742 ...	101	Boron trifluoride-acetic acid complex						

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 1815 ...	102	Propionyl chloride
UN 1816 ...	101	Propyl trichlorosilane
UN 1817 ...	101	Pyrosulfuryl chloride
UN 1817 ...	102	Pyrosulphuryl chloride
UN 1818 ...	101	Silicon chloride or Silicon tetrachloride
UN 1818 ...	102	Silicon tetrachloride
UN 1819 ...	102	Sodium aluminate
UN 1819 ...	101	Sodium aluminate solution
UN 1821 ...	101	Sodium hydrogen sulfate, solid
UN 1821 ...	102	Sodium hydrogen sulphate
UN 1823 ...	102	Sodium hydroxide
UN 1823 ...	101	Sodium hydroxide, dry solid, flake, bead, or granular
UN 1824 ...	102	Sodium hydroxide
UN 1824 ...	101	Sodium hydroxide, liquid or solution
UN 1825 ...	102	Sodium monoxide
UN 1825 ...	101	Sodium monoxide, solid
UN 1826 ...	102	Acid mixtures
NA 1826 ...	101	Nitric acid, spent
UN 1827 ...	102	Stannic chloride
UN 1827 ...	101	Tin tetrachloride, anhydrous
UN 1828 ...	101	Sulfur chloride
UN 1828 ...	102	Sulphur chlorides
UN 1829 ...	101	Sulfur trioxide
UN 1829 ...	102	Sulphur trioxide
UN 1830 ...	101	Sulfuric acid
UN 1830 ...	102	Sulphuric acid
NA 1831 ...	101	Oleum
UN 1831 ...	102	Sulphuric acid
UN 1832 ...	101	Sulfuric acid, spent
UN 1832 ...	102	Sulphuric acid
UN 1833 ...	101	Sulfurous acid
UN 1833 ...	102	Sulphurous acid
UN 1834 ...	101	Sulfuryl chloride
UN 1834 ...	102	Sulphuryl chloride
UN 1835 ...	102	Tetramethylammonium hydroxide, liquid
UN 1835 ...	101	Tetramethylammonium hydroxide, liquid
UN 1836 ...	101	Thionyl chloride
UN 1837 ...	101	Thiophosphoryl chloride
UN 1838 ...	101	Titanium tetrachloride
UN 1839 ...	102	Trichloroacetic acid
UN 1839 ...	101	Trichloroacetic acid, solid
UN 1840 ...	102	Zinc chloride
UN 1840 ...	101	Zinc chloride solution
UN 1841 ...	101	Acetaldehyde ammonia
UN 1842 ...	102	Acetic acid
UN 1843 ...	102	Ammonium dinitro-o-cresolate
UN 1845 ...	101	Carbon dioxide, solid, or Dry ice, or Carbonice
UN 1846 ...	101	Carbon tetrachloride
UN 1847 ...	102	Potassium sulphide
UN 1848 ...	101	Propionic acid
UN 1848 ...	102	Propionic acid, solution
UN 1849 ...	102	Sodium sulphide
UN 1850 ...	101	Eradicator, paint or grease, liquid
UN 1850 ...	102	Eradicators
UN 1851 ...	101	Medicines, n.o.s.
UN 1851 ...	102	Medicines, n.o.s., liquid
UN 1851 ...	101	Medicines, n.o.s., solid
UN 1854 ...	102	Barium alloys
UN 1855 ...	102	Calcium
UN 1856 ...	102	Rags
UN 1856 ...	101	Rags, oily
UN 1857 ...	102	Textile waste
UN 1857 ...	101	Textile waste, wet
UN 1857 ...	101	Waste textile, wet
UN 1858 ...	101	Hexafluoropropylene
UN 1859 ...	101	Silicon tetrafluoride
UN 1860 ...	102	Vinyl fluoride
UN 1860 ...	101	Vinyl fluoride, inhibited
UN 1862 ...	101	Ethyl crotonate
UN 1863 ...	102	Fuel, aviation
UN 1863 ...	101	Fuel, aviation, turbine engine
UN 1864 ...	102	Gas drips
UN 1864 ...	101	Gas drips, hydrocarbon
UN 1865 ...	102	n-Propyl nitrate
UN 1866 ...	102	Resin
UN 1866 ...	101	Resin solution
UN 1867 ...	102	Cigarettes
UN 1867 ...	101	Self-lighting cigarette
UN 1868 ...	101	Decaborane
UN 1869 ...	102	Magnesium
UN 1869 ...	102	Magnesium alloys
UN 1869 ...	101	Magnesium, metal
NA 1869 ...	101	Magnesium scrap
UN 1870 ...	102	Potassium borohydride
UN 1871 ...	102	Titanium hydride
UN 1872 ...	102	Lead dioxide

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 1872 ...	101	Lead peroxide
UN 1873 ...	101	Perchloric acid
UN 1884 ...	101	Barium oxide
UN 1885 ...	101	Benzidine
UN 1886 ...	102	Benzylidene chloride
UN 1887 ...	101	Bromochloromethane
UN 1888 ...	101	Chloroform
UN 1889 ...	101	Cyanogen bromide
UN 1891 ...	102	Ethyl bromide
UN 1892 ...	102	Ethyl dichloroarsine
UN 1893 ...	102	Organophosphates
UN 1894 ...	102	Phenylmercuric hydroxide
UN 1895 ...	102	Phenylmercuric nitrate
UN 1897 ...	102	Tetrachloroethylene
UN 1897 ...	101	Tetrachloroethylene or Perchloroethylene
UN 1898 ...	101	Acetyl iodide
UN 1899 ...	102	Alkanesulphonic acids
UN 1901 ...	102	Calcium hydrogen sulphite
NA 1902 ...	101	Di-(2-ethylhexyl) phosphoric acid
UN 1902 ...	101	Diisooctyl acid phosphate
UN 1903 ...	101	Disinfectant, liquid
UN 1903 ...	102	Disinfectants
UN 1905 ...	102	Selenic acid
UN 1905 ...	101	Selenic acid, liquid
UN 1906 ...	101	Acid, sludge
UN 1906 ...	102	Sludge acid
UN 1907 ...	102	Soda lime
UN 1907 ...	101	Soda lime, solid
UN 1908 ...	102	Sodium chloride
UN 1908 ...	101	Sodium chloride solution
UN 1909 ...	102	Sodium hydrogen sulphite
UN 1910 ...	101	Calcium oxide
UN 1911 ...	102	Diborane
UN 1911 ...	101	Diborane or diborane mixtures
UN 1912 ...	102	Methyl chloride and methylene chloride
UN 1912 ...	101	Methyl chloride-methylene chloride mixture
UN 1913 ...	102	Neon
UN 1914 ...	102	Butyl propionate
UN 1915 ...	102	Cyclohexanone
UN 1916 ...	102	Dichloroethyl ether
UN 1917 ...	102	Ethyl acrylate
UN 1917 ...	101	Ethyl acrylate, inhibited
UN 1918 ...	102	Isopropylbenzene
UN 1919 ...	102	Methyl acrylate
UN 1919 ...	101	Methyl acrylate, inhibited
UN 1920 ...	102	Nonane
UN 1921 ...	102	Propyleneimine
UN 1921 ...	101	Propyleneimine, inhibited
UN 1922 ...	101	Pyroline
UN 1923 ...	102	Calcium dithionite
UN 1924 ...	102	Ethyl aluminum dichloride
UN 1925 ...	102	Ethyl aluminum sesquichloride
UN 1926 ...	102	Methyl aluminum sesquibromide
UN 1927 ...	102	Methyl aluminum sesquichloride
UN 1928 ...	102	Methyl magnesium bromide
UN 1928 ...	101	Methyl magnesium bromide in ethyl ether
UN 1929 ...	102	Potassium dithionite
UN 1930 ...	102	Trisobutyl aluminium
UN 1931 ...	102	Zinc dithionite
UN 1931 ...	101	Zinc hydrosulfite
UN 1932 ...	102	Zirconium
UN 1932 ...	101	Zirconium scrap
UN 1935 ...	102	Cyanides
UN 1935 ...	101	Cyanide solution, n.o.s.
UN 1938 ...	102	Bromoacetic acid
UN 1938 ...	101	Bromoacetic acid, solid
UN 1938 ...	101	Bromoacetic acid solution
UN 1939 ...	101	Phosphorus oxybromide
UN 1940 ...	101	Thioglycolic acid
UN 1941 ...	101	Dibromodifluoromethane
UN 1942 ...	102	Ammonium nitrate
UN 1942 ...	101	Ammonium nitrate (no organic coating)
NA 1942 ...	101	Ammonium nitrate (organic coating)
UN 1944 ...	102	Matches
UN 1944 ...	101	Matches, safety
UN 1945 ...	102	Matches
UN 1950 ...	102	Aerosol dispensers
UN 1951 ...	102	Argon
UN 1951 ...	101	Argon, liquid pressurized
UN 1952 ...	102	Ethylene oxide and carbon dioxide
UN 1953 ...	102	Compressed or liquefied gases (UN 1953)
UN 1953 ...	102	Stibine
UN 1953 ...	102	Water-gas
UN 1954 ...	101	Compressed gas, n.o.s.
UN 1954 ...	102	Compressed or liquefied gases

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
NA 1954 ...	101	Refrigerating machine
NA 1955 ...	101	Chloropicrin and nonflammable, nonliquefied compressed gas mixture
UN 1955 ...	102	Compressed or liquefied gases
NA 1955 ...	101	Methyl bromide and nonflammable, nonliquefied compressed gas mixture, liquid
NA 1955 ...	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound; mixed with compressed gas
(UN 1955)	102	Perchloryl fluoride
(UN 1955)	102	Phosphorus trifluoride
NA 1955 ...	101	Poisonous liquid or gas, n.o.s.
(UN 1955)	102	Tetrafluorohydrazine
NA 1956 ...	101	Accumulator, pressurized
UN 1956 ...	101	Compressed gas, n.o.s.
UN 1956 ...	102	Compressed or liquefied gases
NA 1956 ...	101	Dichlorodifluoromethane-dichlorotetrafluoroethane mixture
NA 1956 ...	101	Dichlorodifluoromethane-monochlorodifluoromethane mixture
NA 1956 ...	101	Dichlorodifluoromethane-trichloromonofluoromethane mixture
NA 1956 ...	101	Dichlorodifluoromethane-trichloromonofluoromethane-monochlorodifluoromethane mixture
NA 1956 ...	101	Dichlorodifluoromethane-trichlorotrifluoroethane mixture
NA 1956 ...	101	Hexafluoropropylene oxide
NA 1956 ...	101	Mine rescue equipment containing carbon dioxide
NA 1956 ...	101	Water pump system
UN 1957 ...	102	Deuterium
UN 1958 ...	102	Dichlorotetrafluoroethane
UN 1959 ...	102	1,1-Difluoroethylene
UN 1960 ...	101	Engine starting fluid
UN 1961 ...	102	Ethane
UN 1962 ...	101	Ethylene
UN 1963 ...	102	Helium
UN 1964 ...	102	Hydrocarbon gases
UN 1964 ...	101	Hydrocarbon gas, nonliquefied
UN 1965 ...	102	Hydrocarbon gases
UN 1965 ...	101	Hydrocarbon gas, liquefied
UN 1966 ...	102	Hydrogen
UN 1966 ...	101	Hydrogen, liquefied
UN 1967 ...	102	Insecticide gases
NA 1967 ...	101	Insecticide, liquefied gas, containing Poison A material or Poison B material
NA 1967 ...	101	Parathion and compressed gas mixture
UN 1968 ...	102	Insecticide gases
NA 1968 ...	101	Insecticide, liquefied gas
UN 1969 ...	102	Isobutane
UN 1970 ...	102	Krypton
UN 1971 ...	101	Methane
UN 1971 ...	102	Methane or natural gases
UN 1972 ...	102	Methane or natural gases
UN 1973 ...	102	Chlorodifluoromethane and chloropentafluoroethane
UN 1974 ...	102	Chlorodifluorobromomethane
UN 1975 ...	102	Nitric oxide and nitrogen tetroxide
UN 1976 ...	102	Octafluorocyclobutane
UN 1977 ...	102	Nitrogen
UN 1977 ...	101	Nitrogen, pressurized liquid
UN 1978 ...	102	Propane
UN 1979 ...	102	Rare gases
NA 1980 ...	101	Helium-oxygen mixture
UN 1980 ...	102	Rare gases
UN 1981 ...	102	Rare gases
UN 1982 ...	102	Tetrafluoromethane
UN 1983 ...	102	Trifluorochloroethane
UN 1984 ...	102	Trifluoromethane
UN 1986 ...	102	Alcohols
NA 1986 ...	101	Denatured alcohol
NA 1986 ...	101	Propargyl alcohol
NA 1986 ...	101	Rum, denatured
UN 1987 ...	101	Alcohol, n.o.s.
UN 1987 ...	102	Alcohols
UN 1988 ...	102	Aldehydes
UN 1989 ...	102	Aldehydes
NA 1989 ...	101	Benzaldehyde
UN 1990 ...	102	Benzaldehyde
UN 1991 ...	102	Chloroprene
UN 1991 ...	101	Chloroprene, inhibited

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 1992 ...	101	Flammable liquid, poisonous, n.o.s.	UN 2033 ...	102	Potassium oxide	UN 2098 ...	101	tert-Butyl peroxybenzoate
UN 1992 ...	102	Flammable liquids	UN 2034 ...	102	Hydrogen and methane	UN 2098 ...	102	tert-Butyl perbenzoate
NA 1993 ...	101	Combustible liquid, n.o.s.	UN 2035 ...	102	Trifluoroethane	UN 2099 ...	101	tert-Butyl peroxymaleate
NA 1993 ...	101	Compound, cleaning, liquid	UN 2036 ...	101	Xenon	UN 2099 ...	102	tert-Butyl permaleate
NA 1993 ...	101	Compound, tree or weed killing, liquid	UN 2037 ...	102	Cartouche	UN 2100 ...	101	tert-Butyl peroxymaleate
NA 1993 ...	101	Cosmetics, n.o.s.	UN 2037 ...	102	Gas cartridges	UN 2100 ...	102	tert-Butyl permaleate
NA 1993 ...	101	Cresote, coal tar	UN 2037 ...	102	Receptacles	UN 2101 ...	101	tert-Butyl peroxymaleate
NA 1993 ...	101	Disinfectant, liquid, n.o.s.	UN 2038 ...	102	Dinitrotoluenes	UN 2101 ...	102	tert-Butyl permaleate
NA 1993 ...	101	Drugs, n.o.s.	UN 2038 ...	101	Dinitrotoluene, solid	UN 2102 ...	101	Di-tert-butyl peroxide
NA 1993 ...	101	Drugs, n.o.s.	UN 2044 ...	102	2,2-Dimethylpropane	UN 2102 ...	102	tert-Butyl peroxide
NA 1993 ...	101	Ethyl nitrate	UN 2045 ...	102	Isobutyraldehyde	UN 2103 ...	101	tert-Butyl peroxyisopropyl carbonate
UN 1993 ...	101	Flammable liquid, n.o.s.	UN 2046 ...	102	p-Cymene	UN 2103 ...	102	tert-Butyl peroxy isopropyl carbonate
UN 1993 ...	102	Flammable liquids	UN 2047 ...	101	Dichloropropane	UN 2104 ...	101	tert-Butyl peroxy-3,5,5- trimethylhexanoate or tert-Butyl peroxyisooctanoate
NA 1983 ...	101	Fuel oil	NA 2047 ...	101	Dichloropropane and propylene dichloride mixture	UN 2104 ...	102	tert-Butyl peroxy-3,5,5-trimethyl hexanoate
NA 1993 ...	101	Fuel oil, No. 1, 2, 4, 5 or 8	UN 2048 ...	102	Dicyclopentadiene	UN 2105 ...	101	tert-Butyl peroxyphthalate
NA 1993 ...	101	Heater for refrigerator car, liquid fuel type	UN 2049 ...	102	Diethylbenzene	UN 2105 ...	102	tert-Butyl monopero-phthalate
NA 1993 ...	101	Insecticide, liquid, n.o.s.	UN 2050 ...	102	Diisobutylene	UN 2106 ...	101	Di-(tert-butylperoxy)phthalate
NA 1993 ...	101	Organic peroxide, liquid or solution, n.o.s.	UN 2051 ...	102	Dimethyl ethanolamine	UN 2106 ...	102	tert-Butyl dipero-phthalate
NA 1993 ...	101	Plastic solvent, n.o.s.	UN 2052 ...	102	Dipentene	UN 2107 ...	101	Di-(tert-butylperoxy)phthalate
NA 1993 ...	101	Refrigerating machine	UN 2053 ...	102	Methyl isobutyl carbinol	UN 2107 ...	102	tert-Butyl dipero-phthalate
NA 1993 ...	101	Solvent, n.o.s.	UN 2054 ...	101	Morpholine	UN 2108 ...	101	Di-(tert-butylperoxy)phthalate
NA 1993 ...	101	Wax, liquid	NA 2054 ...	102	Morpholine, aqueous, mixture	UN 2108 ...	102	tert-Butyl dipero-phthalate
UN 1994 ...	102	Iron carbonyl	UN 2055 ...	102	Styrene monomer	UN 2108 ...	101	Di-(tert-butylperoxy)phthalate
UN 1995 ...	102	Pesticides	UN 2055 ...	101	Styrene monomer, inhibited	UN 2108 ...	102	tert-Butyl dipero-phthalate
UN 1996 ...	102	Pesticides	UN 2056 ...	101	Tetrahydrofuran	UN 2110 ...	101	tert-Butyl peroxypivalate
UN 1997 ...	102	Solvents	UN 2057 ...	102	Tripropylene	UN 2110 ...	102	tert-Butyl peroxypivalate
UN 1998 ...	102	Solvents	UN 2058 ...	102	Valeraldehyde	UN 2111 ...	102	2,2-Bis-(tert-butylperoxy) butane
UN 1999 ...	101	Asphalt	UN 2059 ...	101	Box toe gum	UN 2111 ...	101	2,2-Di-(tert-butylperoxy)butane
NA 1999 ...	101	Asphalt, cut back	NA 2059 ...	101	Colloidon	UN 2112 ...	102	1,4-Bis-(2-tert-butylperoxy isopropyl) benzene, or, 1,3-bis-(2-tert- butylperoxy isopropyl) benzene
UN 1999 ...	102	Cut-backs	UN 2059 ...	102	Nitrocellulose	UN 2112 ...	101	1,3-Di-(2-tert-butylperoxyisopropyl) benzene
UN 1999 ...	101	Tar, liquid	NA 2059 ...	101	Nitrocellulose, colloided, granular or flake, wet with not less than 20% alcohol or solvent, or block, wet with not less than 25% alcohol	UN 2112 ...	101	1,3-Di-(2-tert-butylperoxyisopropyl) benzene and 1,4 Di-(2-tert- butylperoxyisopropyl) benzene mixture
UN 2000 ...	102	Celluloid	NA 2059 ...	101	Pyroxylin solution	UN 2113 ...	101	p-Chlorobenzoyl peroxide
UN 2001 ...	102	Cobalt naphthenates	NA 2059 ...	101	Pyroxylin solvent, n.o.s.	UN 2113 ...	102	p-Chlorobenzoyl peroxide
UN 2002 ...	102	Celluloid	UN 2060 ...	101	Box toe gum	UN 2114 ...	101	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium alkylchlorides	UN 2060 ...	102	Endrin	UN 2114 ...	102	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium alkyls	UN 2065 ...	102	Ammonium nitrate fertilizer	UN 2115 ...	101	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium tributyl	UN 2067 ...	101	Ammonium nitrate fertilizers	UN 2115 ...	102	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Metal alkyls, n.o.s.	UN 2067 ...	102	Ammonium nitrate-carbonate mixture	UN 2115 ...	101	p-Chlorobenzoyl peroxide
UN 2004 ...	102	Magnesium diamide	UN 2068 ...	101	Ammonium nitrate mixed fertilizer	UN 2115 ...	102	p-Chlorobenzoyl peroxide
UN 2005 ...	102	Magnesium diphenyl	UN 2069 ...	101	Ammonium nitrate-phosphate	UN 2116 ...	101	Cumene hydroperoxide
UN 2006 ...	102	Plastics	UN 2070 ...	101	Ammonium nitrate fertilizers	UN 2117 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
NA 2006 ...	101	Pyroxylin plastic scrap	UN 2071 ...	102	Ammonium nitrate fertilizer	UN 2118 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
NA 2006 ...	101	Pyroxylin plastics, rods, sheets, rolls, or tubes	UN 2072 ...	102	Ammonia	UN 2118 ...	101	Cyclohexanone peroxide
UN 2008 ...	102	Zirconium	UN 2073 ...	102	Ammonia solution	UN 2119 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
UN 2008 ...	101	Zirconium metal, dry	UN 2073 ...	101	Acrylamide	UN 2119 ...	101	Cyclohexanone peroxide
UN 2008 ...	102	Zirconium metal powder, dry	UN 2074 ...	102	Chloral	UN 2119 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
UN 2009 ...	102	Zirconium	UN 2074 ...	101	Cresol	UN 2119 ...	101	Cyclohexanone peroxide
UN 2010 ...	102	Magnesium hydride	UN 2075 ...	102	Cresols	UN 2119 ...	102	Decanoyl peroxide
UN 2011 ...	102	Magnesium phosphide	UN 2076 ...	102	Naphthylamine	UN 2120 ...	101	Decanoyl peroxide
UN 2012 ...	102	Potassium phosphide	UN 2077 ...	102	Toluene diisocyanate	UN 2120 ...	102	Dicumyl peroxide
UN 2013 ...	102	Strontium phosphide	UN 2078 ...	101	Diethylenetriamine	UN 2121 ...	101	Dicumyl peroxide, dry
UN 2014 ...	102	Hydrogen peroxide	UN 2079 ...	102	Acetyl acetone peroxide	UN 2122 ...	102	Di-(2-ethylhexyl) perdicarbonate
UN 2014 ...	101	Hydrogen peroxide solution	UN 2080 ...	101	Acetyl benzoyl peroxide	UN 2122 ...	101	Di-(2-ethylhexyl) peroxydicarbonate
UN 2015 ...	102	Hydrogen peroxide	UN 2081 ...	101	Acetyl benzoyl peroxide solution	UN 2123 ...	102	Di-(2-ethylhexyl) perdicarbonate
UN 2015 ...	101	Hydrogen peroxide solution	UN 2081 ...	101	Acetyl cyclohexanesulphonyl peroxide	UN 2123 ...	101	Di-(2-ethylhexyl) peroxydicarbonate
UN 2016 ...	102	Ammunition	UN 2082 ...	101	Acetyl cyclohexane sulphonyl peroxide	UN 2124 ...	101	Lauroyl peroxide
UN 2016 ...	101	Chemical ammunition, nonexplosive	UN 2082 ...	102	Acetyl cyclohexane sulphonyl peroxide	UN 2125 ...	101	p-Menthane hydroperoxide
NA 2016 ...	101	Grenade	UN 2083 ...	101	Acetyl cyclohexanesulphonyl peroxide	UN 2125 ...	102	Paramenthane hydroperoxide
UN 2017 ...	102	Ammunition	UN 2083 ...	102	Acetyl cyclohexane sulphonyl peroxide	UN 2126 ...	101	p-Menthane hydroperoxide
UN 2017 ...	101	Chemical ammunition, nonexplosive	UN 2084 ...	101	Acetyl peroxide	UN 2126 ...	102	Isobutyl methyl ketone peroxide
NA 2017 ...	101	Grenade, tear gas	UN 2084 ...	101	Acetyl peroxide solution	UN 2127 ...	101	Methyl isobutyl ketone peroxide
UN 2018 ...	102	Chloroanilines	NA 2085 ...	101	Benzoyl peroxide	UN 2127 ...	102	Ethyl methyl ketone peroxide(s)
UN 2019 ...	102	Chloroanilines	UN 2086 ...	102	Benzoyl peroxide	UN 2128 ...	102	Isononanyl peroxide
UN 2020 ...	102	Chlorophenates	UN 2087 ...	101	Benzoyl peroxide	UN 2129 ...	101	Caprylyl peroxide solution
UN 2020 ...	102	Chlorophenols	UN 2088 ...	101	Benzoyl peroxide	UN 2129 ...	102	n-Octanoyl peroxide
NA 2020 ...	101	Pentachlorophenol	UN 2089 ...	101	Benzoyl peroxide	UN 2129 ...	101	n-Octanoyl peroxide
NA 2020 ...	101	Trichlorophenol	UN 2090 ...	101	Benzoyl peroxide	UN 2130 ...	102	n-Nonanoyl peroxide
UN 2021 ...	102	Chlorophenates	UN 2091 ...	101	tert-Butyl cumyl peroxide	UN 2130 ...	101	Pelargonyl peroxide
UN 2021 ...	102	Chlorophenols	NA 2091 ...	101	tert-Butyl isopropyl benzene hydroperoxide	UN 2131 ...	102	Peracetic acid
UN 2022 ...	102	Cresylic acid	UN 2091 ...	102	tert-Butyl cumyl peroxide	NA 2131 ...	101	Peracetic acid solution
NA 2022 ...	101	Mining reagent, liquid	UN 2092 ...	101	tert-Butyl hydroperoxide	UN 2131 ...	102	Peroxyacetic acid
UN 2023 ...	101	Epichlorohydrin	UN 2092 ...	102	tert-Butyl hydroperoxide	UN 2132 ...	101	Propionyl peroxide
UN 2024 ...	102	Mercury compounds	UN 2093 ...	101	tert-Butyl hydroperoxide	UN 2133 ...	102	Diisopropyl perdicarbonate
NA 2025 ...	101	Mercure sulfite, solid	UN 2093 ...	102	tert-Butyl hydroperoxide	NA 2133 ...	101	Isopropyl percarbonate, unstabilized
UN 2025 ...	102	Mercury compounds	UN 2094 ...	101	tert-Butyl hydroperoxide	UN 2133 ...	101	Isopropyl peroxydicarbonate
UN 2025 ...	101	Mercury compound, solid, n.o.s.	UN 2094 ...	102	tert-Butyl hydroperoxide	UN 2134 ...	102	Diisopropyl perdicarbonate
UN 2026 ...	102	Phenylmercuric compounds, n.o.s.	UN 2095 ...	101	tert-Butyl hydroperoxide	NA 2134 ...	101	Isopropyl percarbonate, stabilized
UN 2027 ...	102	Sodium arsenite	UN 2095 ...	102	tert-Butyl peroxycetate	UN 2134 ...	101	Isopropyl peroxydicarbonate
UN 2028 ...	102	Bombs, smoke	UN 2095 ...	101	tert-Butyl peracetate	UN 2135 ...	101	Succinic acid peroxide
UN 2028 ...	102	Hydrazine	UN 2096 ...	102	tert-Butyl peracetate	UN 2136 ...	101	Tetralin hydroperoxide
UN 2029 ...	101	Hydrazine, anhydrous	UN 2096 ...	101	tert-Butyl peroxycetate	UN 2137 ...	102	2,4-Dichlorobenzoyl peroxide
UN 2029 ...	102	Hydrazine	UN 2097 ...	101	tert-Butyl peroxycetate	UN 2137 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2030 ...	102	Hydrazine, aqueous solution	UN 2097 ...	102	tert-Butyl peroxybenzoate	UN 2138 ...	102	2,4-Dichlorobenzoyl peroxide
UN 2030 ...	101	Nitric acid	UN 2097 ...	101	tert-Butyl peroxybenzoate	UN 2138 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2031 ...	101	Nitric acid	UN 2097 ...	102	tert-Butyl peroxybenzoate	UN 2138 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2032 ...	102	Nitric acid, fuming	UN 2097 ...	102	tert-Butyl peroxybenzoate	UN 2138 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2032 ...	101	Nitric acid, fuming						

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 2139 ...	102	2,4-Dichlorobenzoyl peroxide	UN 2168 ...	102	2,2-Bis-(4,4-di-tert-butylperoxy cyclohexyl) propane	UN 2222 ...	102	Anisole
UN 2139 ...	101	2,4-Dichlorobenzoyl peroxide	UN 2168 ...	101	2,2-Di-(4,4-di-tert- butylperoxycyclohexyl)propane	UN 2224 ...	101	Benzonitrile
UN 2140 ...	101	n-Butyl-4,4-di-(tert- butylperoxy)valerate	UN 2169 ...	101	n-Butyl peroxycarbonate	UN 2225 ...	102	Benzene sulphonyl chloride
UN 2140 ...	102	n-Butyl-4,4-bis-(tert-butyl-peroxy) valerate	UN 2169 ...	102	n-Butyl perdicarbonate	UN 2226 ...	102	Benzoic chloride
UN 2141 ...	101	n-Butyl-4,4-di-(tert- butylperoxy)valerate	UN 2170 ...	101	n-Butyl peroxycarbonate	UN 2227 ...	102	n-Butyl methacrylate
UN 2141 ...	102	n-Butyl-4,4-bis-(tert-butyl-peroxy) valerate	UN 2170 ...	102	n-Butyl perdicarbonate	UN 2228 ...	102	Butylphenols
UN 2142 ...	101	tert-Butyl peroxyisobutyrate	UN 2171 ...	101	Diisopropylbenzene hydroperoxide	UN 2229 ...	102	Butylphenols
UN 2142 ...	102	tert-Butyl perisobutyrate	UN 2171 ...	102	Diisopropylbenzene hydroperoxide solution	UN 2230 ...	102	Chlorinated anthracene oil
UN 2143 ...	101	tert-Butyl peroxy-2-ethylhexanoate	UN 2172 ...	102	2,5-Dimethyl-2,5-bis-(benzoylperoxy) hexane	UN 2232 ...	102	Chloroacetaldehyde
UN 2143 ...	102	tert-Butyl per-(2-ethyl) hexanoate	UN 2172 ...	101	2,5-Dimethyl-2,5-di- (benzoylperoxy)hexane	UN 2233 ...	102	p-Chloro-o-anisidine
UN 2144 ...	101	tert-Butyl peroxydiethylacetate	UN 2173 ...	102	2,5-Dimethyl-2,5-bis-(benzoylperoxy) hexane	UN 2234 ...	102	Chlorobenzotrifluorides
UN 2144 ...	102	tert-Butyl peroxydiethylacetate	UN 2173 ...	101	2,5-Dimethyl-2,5-di- (benzoylperoxy)hexane	UN 2235 ...	102	p-Chlorobenzyl chloride
UN 2145 ...	102	1,1-Bis-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2174 ...	102	2,5-Dimethyl-2,5-dihydroperoxy hexane	UN 2236 ...	102	3-Chloro-4-methylphenyl isocyanate
UN 2145 ...	101	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2174 ...	101	2,5-Dimethyl-2,5-dihydroperoxy hexane	UN 2237 ...	102	Chloronitroanilines
UN 2146 ...	102	1,1-Bis-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2174 ...	102	2,5-Dimethyl-2,5-dihydroperoxy hexane	UN 2238 ...	102	Chlorotoluenes
UN 2146 ...	101	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2174 ...	101	2,5-Dimethyl-2,5-dihydroperoxy hexane	UN 2239 ...	102	Chlorotoluidines
UN 2147 ...	102	1,1-Bis-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2175 ...	102	Diethyl perdicarbonate	UN 2240 ...	102	Chromosulphonic acid
UN 2147 ...	101	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2175 ...	101	Diethyl perdicarbonate	UN 2241 ...	102	Cycloheptane
UN 2148 ...	102	Bis-(1-hydroxy cyclohexyl) peroxide	UN 2175 ...	102	Diethyl perdicarbonate	UN 2242 ...	102	Cycloheptane
UN 2148 ...	101	Di-(1-hydroxycyclohexyl) peroxide	UN 2176 ...	101	Diethyl peroxycarbonate	UN 2243 ...	102	Cyclohexyl acetate
UN 2149 ...	102	Dibenzyl perdicarbonate	UN 2177 ...	101	Di-n-propyl peroxycarbonate	UN 2244 ...	102	Cyclopentanol
UN 2149 ...	101	Dibenzyl peroxycarbonate	UN 2177 ...	102	tert-Butyl per-neodecanoate	UN 2245 ...	102	Cyclopentanone
UN 2150 ...	102	Di-sec-butyl perdicarbonate	UN 2178 ...	102	2,2-Dihydroperoxy propane	UN 2246 ...	102	Cyclopentane
UN 2150 ...	101	Di-sec-butyl peroxycarbonate	UN 2178 ...	101	2,2-Dihydroperoxy propane	UN 2247 ...	102	n-Decane
UN 2151 ...	102	Di-sec-butyl perdicarbonate	UN 2178 ...	102	1,1-Bis-(tert-butylperoxy) cyclohexane	UN 2248 ...	102	Di-(n-butyl)amine
UN 2151 ...	101	Di-sec-butyl peroxycarbonate	UN 2179 ...	101	1,1-Di-(tert-butylperoxy)cyclohexane	UN 2249 ...	102	sym-Dichlorodimethyl ether
UN 2152 ...	102	Dicyclohexyl perdicarbonate	UN 2180 ...	102	1,1-Bis-(tert-butylperoxy) cyclohexane	UN 2250 ...	102	Dichlorophenyl isocyanates
UN 2152 ...	101	Dicyclohexyl peroxycarbonate	UN 2180 ...	101	1,1-Di-(tert-butylperoxy)cyclohexane	UN 2252 ...	102	1,2-Dimethoxyethane
UN 2153 ...	102	Dicyclohexyl perdicarbonate	UN 2181 ...	102	1,2-Bis-(tert-butylperoxy) cyclohexane	UN 2253 ...	102	N,N-Dimethylamine
UN 2153 ...	101	Dicyclohexyl peroxycarbonate	UN 2181 ...	101	1,2-Di-(tert-butylperoxy)cyclohexane	UN 2254 ...	102	Matches
UN 2154 ...	102	Bis-(4-tert-butyl cyclohexyl) perdicarbonate	UN 2182 ...	102	Diisobutyl peroxide	UN 2255 ...	101	Organic peroxide, sample, n.o.s.
UN 2154 ...	101	Di-(4-tert-butylcyclohexyl)peroxycarbonate	UN 2182 ...	101	Diisobutyl peroxide	UN 2255 ...	102	Organic peroxides, n.o.s.
UN 2155 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane	UN 2183 ...	102	Diisobutyl peroxide	UN 2256 ...	102	Cyclohexene
UN 2155 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane	UN 2183 ...	101	tert-Butyl peroxycarbonate	UN 2257 ...	102	Potassium metal
UN 2156 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane	UN 2183 ...	102	tert-Butyl percarbonate	UN 2257 ...	101	Potassium, metal or metallic
UN 2156 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane	UN 2184 ...	102	Ethyl-3,3-bis-(tert-butylperoxy) butyrate	UN 2258 ...	102	Propylene diamine
UN 2157 ...	102	2,5-Dimethyl-2,5-bis-(2- ethylhexanoylperoxy) hexane	UN 2185 ...	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	UN 2258 ...	101	Propylenediamine
UN 2157 ...	101	2,5-Dimethyl-2,5-di-(2- ethylhexanoylperoxy)hexane	UN 2185 ...	102	Ethyl-3,3-bis-(tert-butylperoxy) butyrate	UN 2259 ...	102	Triethylenetriamine
UN 2158 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexyne-3	UN 2186 ...	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	UN 2260 ...	102	Tripopylamine
UN 2158 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexyne-3	UN 2187 ...	102	Carbon dioxide, liquefied	UN 2261 ...	101	Xylenol
UN 2159 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexyne-3	UN 2188 ...	101	Arsine	UN 2261 ...	102	Xylenols
UN 2159 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexyne-3	UN 2189 ...	102	Dichlorosilane	UN 2263 ...	102	1,4-Dimethylcyclohexane
UN 2160 ...	102	1,1,3,3-Tetramethyl butyl hydroperoxide	UN 2190 ...	102	Oxygen difluoride	UN 2263 ...	101	Dimethylcyclohexanes
UN 2160 ...	101	1,1,3,3-Tetramethylbutyl hydroperoxide	UN 2191 ...	101	Sulphury fluoride	UN 2264 ...	102	N, N-Dimethylcyclohexylamine
UN 2161 ...	102	1,1,3,3-Tetramethyl butyl peroxy-2- ethyl hexanoate	UN 2191 ...	102	Sulphury fluoride	UN 2265 ...	102	N,N-Dimethylformamide
UN 2161 ...	101	1,1,3,3-Tetramethylbutyl peroxy-2- ethylhexanoate	UN 2192 ...	101	Sulphury fluoride	UN 2266 ...	102	Dimethyl-N-propylamine
UN 2162 ...	101	Pinane hydroperoxide	UN 2193 ...	102	Tungsten hexafluoride	UN 2267 ...	102	Dimethyl thiophosphoryl chloride
UN 2162 ...	102	Pinane hydroperoxide solution	UN 2194 ...	101	Tungsten hexafluoride	UN 2269 ...	102	Dipropylene triamine
UN 2163 ...	101	Diacetone alcohol peroxide	UN 2195 ...	102	Hydrogen iodide	UN 2269 ...	101	Iminobispropylamine
UN 2163 ...	102	Diacetone alcohol peroxides	UN 2196 ...	101	Hydrogen iodide	UN 2270 ...	102	Ethylamine solution
UN 2164 ...	102	Dicetyl perdicarbonate	UN 2197 ...	102	Phosphorus pentafluoride	UN 2271 ...	102	Ethyl amyl ketone
UN 2164 ...	101	Dicetyl peroxycarbonate	UN 2198 ...	101	Phosphine	UN 2272 ...	102	N-Ethylaniline
UN 2165 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxonane	UN 2199 ...	102	Hydrogen selenide	UN 2273 ...	102	2-Ethylaniline
UN 2165 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclonane	UN 2200 ...	101	Silane	UN 2274 ...	102	N-Ethyl-n-benzylaniline
UN 2166 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclonane	UN 2201 ...	102	Carbonyl sulfide	UN 2275 ...	102	2-Ethylbutanol
UN 2166 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclonane	UN 2202 ...	101	Adiponitrile	UN 2276 ...	102	2-Ethylhexylamine
UN 2167 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclonane	UN 2203 ...	102	Isocyanates	UN 2277 ...	102	Ethyl methacrylate
UN 2167 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclonane	UN 2204 ...	101	Isocyanates	UN 2278 ...	102	n-Heptene
			UN 2205 ...	102	Bleaching powder	UN 2279 ...	102	Hexachlorobutadiene
			UN 2206 ...	102	Calcium hypochlorite mixtures	UN 2280 ...	102	Hexamethylenediamine
			UN 2207 ...	102	Formaldehyde	UN 2280 ...	101	Hexamethylenediamine, solid
			UN 2208 ...	101	Formaldehyde solution	UN 2282 ...	102	Hexanols
			UN 2209 ...	102	Formaldehyde solution	UN 2283 ...	102	Isobutyl methacrylate
			UN 2210 ...	102	Maneb, or maneb preparation(s)	UN 2284 ...	102	Isobutyronitrile
			UN 2211 ...	101	Pesticide, water reactive	UN 2286 ...	102	Isododecane
			UN 2212 ...	102	Plastics moulding materials	UN 2287 ...	102	Isoheptene
			UN 2213 ...	102	Asbestos, blue	UN 2288 ...	102	Isohexene
			UN 2214 ...	101	Paraformaldehyde	UN 2289 ...	102	Isophoronediamine
			UN 2215 ...	101	Phthalic anhydride	UN 2290 ...	102	Isophorone diisocyanate
			UN 2216 ...	101	Maleic acid	NA 2291 ...	101	Lead chloride
			UN 2217 ...	102	Maleic anhydride	UN 2291 ...	102	Lead compounds
			UN 2218 ...	102	Fishmeal or fish scrap	NA 2291 ...	101	Lead fluoride
			UN 2219 ...	102	Fish meal or fish scrap containing 8% to 12% water	NA 2291 ...	101	Lead sulfate
			UN 2220 ...	102	Seed cake	NA 2291 ...	101	Lead sulfide
			UN 2221 ...	102	Allyl glycidyl ether	NA 2291 ...	101	Lead thiocyanate
			UN 2221 ...	101	Aluminum alkyl halides, in solution	UN 2293 ...	102	4-Methoxy-4-methylpentan-2-one
			UN 2221 ...	102	Aluminum alkyl halides	UN 2294 ...	102	N-Methylaniline
						UN 2295 ...	102	Methyl chloroacetate
						UN 2296 ...	102	Methyl cyclohexane
						UN 2298 ...	101	Methylcyclohexane
						UN 2297 ...	102	Methyl cyclohexanone
						UN 2298 ...	101	Cyclopentane, methyl
						UN 2298 ...	102	Methyl cyclopentane
						UN 2298 ...	101	Methylcyclopentane
						UN 2299 ...	101	Methyl dichloroacetate
						UN 2300 ...	102	2-Methyl-5-ethylpyridine
						UN 2301 ...	101	Methyl ethyl pyridine
						UN 2301 ...	102	2-Methylfuran
						UN 2301 ...	101	Methylfuran
						UN 2302 ...	102	5-Methylhexan-2-one

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description	Identifi- cation Number	Source 172.***	Description
UN 2303 ...	102	Isopropenylbenzene	UN 2394 ...	102	Isobutyl propionate	UN 2480 ...	102	Methyl isocyanate
UN 2304 ...	102	Naphthalene, molten	UN 2395 ...	102	Isobutyl chloride	UN 2481 ...	102	Ethyl isocyanate
UN 2305 ...	102	Nitrobenzenesulphonic acid	UN 2396 ...	102	Methacraldehyde	UN 2482 ...	102	n-Propyl isocyanate
UN 2306 ...	102	Nitrobenzotrifluoride	UN 2397 ...	102	3-Methyl butan-2-one	UN 2483 ...	102	Isopropyl isocyanate
UN 2307 ...	102	3-Nitro-4-chlorobenzotrifluoride	UN 2398 ...	102	Methyl-tert-butyl ether	UN 2484 ...	102	tert-Butyl isocyanate
UN 2308 ...	102	Nitrosylsulphuric acid	UN 2399 ...	102	1-Methylpiperidine	UN 2485 ...	101	n-Butyl isocyanate
UN 2309 ...	102	Octadecane	UN 2400 ...	102	Methylisovalerate	UN 2485 ...	102	n-Butyl isocyanate
UN 2310 ...	102	2,4-Pentanedione	UN 2401 ...	102	Piperidine	UN 2486 ...	102	Isobutyl isocyanate
UN 2311 ...	102	Phenetidine	UN 2402 ...	102	Propanethiol	UN 2487 ...	102	Phenyl isocyanate
UN 2313 ...	102	Picolines	UN 2403 ...	102	Isopropenyl acetate	UN 2488 ...	102	Cyclohexyl isocyanate
UN 2315 ...	101	Polychlorinated biphenyls	UN 2404 ...	102	Propionitrile	UN 2489 ...	102	Diphenylmethane diisocyanate
UN 2316 ...	102	Sodium cuprocyanide	UN 2405 ...	102	Isopropyl butyrate	UN 2490 ...	101	Dichloroisopropyl ether
UN 2318 ...	101	Sodium hydroxide, solid	UN 2406 ...	102	Isopropyl isobutyrate	UN 2491 ...	102	Ethanolamine
UN 2318 ...	102	Sodium hydroxide	UN 2407 ...	102	Isopropyl chloroformate	UN 2491 ...	101	Monoethanolamine
UN 2319 ...	102	Terpene hydrocarbons n.o.s.	UN 2408 ...	102	Isopropyl formate	UN 2493 ...	101	Hexamethyleneimine
UN 2320 ...	102	Tetraethylpentamine	UN 2408 ...	102	Isopropyl propionate	UN 2495 ...	101	Iodine pentafluoride
UN 2321 ...	102	Trichlorobenzene	UN 2410 ...	102	1,2,3,6-Tetrahydropyridine	UN 2496 ...	101	Propionic anhydride
UN 2322 ...	102	Trichlorobutene	UN 2411 ...	102	Butyronitrile	UN 2497 ...	102	Sodium phenolate
UN 2323 ...	102	Triethyl phosphite	UN 2412 ...	102	Tetrahydrothiophene	UN 2497 ...	101	Sodium phenolate, solid
UN 2324 ...	102	Trisobutylene	UN 2414 ...	102	Thiophene	UN 2498 ...	102	1,2,3,6-Tetrahydrobenzaldehyde
UN 2325 ...	102	1,3,5-Trimethylbenzene	UN 2416 ...	102	Trimethyl borate	UN 2498 ...	101	1,2,3,6-Tetrahydrobenzaldehyde
UN 2326 ...	102	Trimethylcyclohexylamine	UN 2417 ...	102	Carbonyl fluoride	UN 2501 ...	102	Tris-(1-aziridinyl)phosphine oxide
UN 2327 ...	102	3,3,5-Trimethylhexamethylene diamine	UN 2418 ...	102	Sulphur tetrafluoride	UN 2501 ...	101	Tris-(1-aziridinyl)phosphine oxide
UN 2328 ...	102	Trimethylhexamethylene diisocyanate	UN 2420 ...	102	Hexafluoroacetone	UN 2502 ...	101	Valeryl chloride
UN 2329 ...	102	Trimethyl phosphite	UN 2421 ...	102	Nitrogen trioxide	UN 2502 ...	102	Valeryl chlorides
UN 2330 ...	102	Undecane	NA 2422 ...	101	Perfluoro-2-butene	UN 2503 ...	102	Zirconium tetrachloride
UN 2331 ...	102	Zinc chloride	UN 2426 ...	101	Ammonium nitrate, solution	UN 2503 ...	101	Zirconium tetrachloride, solid
UN 2331 ...	101	Zinc chloride, solid	UN 2427 ...	102	Potassium chlorate	UN 2504 ...	101	Acetylene tetrabromide
UN 2332 ...	102	Acetaldehyde oxime	UN 2428 ...	102	Sodium chlorate	UN 2505 ...	101	Ammonium fluoride
UN 2333 ...	102	Allyl acetate	UN 2429 ...	102	Calcium chlorate	UN 2506 ...	101	Ammonium hydrogen sulfate
UN 2334 ...	102	Allylamine	UN 2431 ...	102	o-Anisidine	UN 2507 ...	102	Chloroplatinic acid
UN 2335 ...	102	Allyl ethyl ether	UN 2432 ...	102	N,N-Diethylaniline	UN 2507 ...	101	Chloroplatinic acid, solid
UN 2336 ...	102	Allyl formate	UN 2433 ...	102	Chloro-o-nitrotoluene	UN 2508 ...	101	Molybdenum pentachloride
UN 2337 ...	102	Phenyl mercaptan	UN 2434 ...	102	Dibenzylchlorosilane	UN 2509 ...	101	Potassium hydrogen sulfate, solid
UN 2338 ...	102	Benzotrifluoride	UN 2435 ...	101	Ethyl phenyl dichlorosilane	UN 2511 ...	102	Chloropropionic acid
UN 2339 ...	102	2-Bromobutane	UN 2435 ...	102	Ethylphenyldichlorosilane	UN 2512 ...	102	Aminophenols
UN 2340 ...	102	2-Bromoethyl ethyl ether	UN 2436 ...	102	Thioacetic acid	UN 2513 ...	102	Bromocetyl bromide
UN 2341 ...	102	1-Bromo-3-methylbutane	UN 2437 ...	102	Methylphenyldichlorosilane	UN 2514 ...	101	Bromobenzene
UN 2342 ...	102	Bromomethylpropanes	UN 2438 ...	102	Phenyl chloride	UN 2515 ...	102	Bromoforn
UN 2343 ...	102	2-Bromopentane	UN 2438 ...	101	Trimethylsilyl chloride	UN 2516 ...	102	Carbon tetrabromide
UN 2344 ...	102	Bromopropanes	UN 2439 ...	101	Sodium bifluoride, solid	UN 2517 ...	101	Difluoromonooctadecane
UN 2345 ...	102	3-Bromopropene	UN 2439 ...	102	Sodium bifluoride, solution	UN 2518 ...	102	1,5,9-Cyclododecatriene
UN 2346 ...	102	Butanedione	UN 2439 ...	101	Sodium hydrogen fluoride	UN 2520 ...	102	Cyclooctadienes
UN 2346 ...	101	Diacetyl	UN 2440 ...	102	Stannic chloride pentahydrate	UN 2521 ...	102	Diketene
UN 2347 ...	102	Butane-1-thiol	UN 2441 ...	102	Titanium trichloride	UN 2522 ...	102	Dimethylaminoethyl methacrylate
UN 2347 ...	101	Butyl mercaptan	UN 2442 ...	102	Trichloroacetyl chloride	UN 2524 ...	102	Ethyl orthoformate
UN 2348 ...	102	Butylacrylate	UN 2443 ...	102	Vanadium oxotrichloride	UN 2525 ...	102	Ethyl oxalate
UN 2350 ...	102	Butyl methyl ether	NA 2443 ...	101	Vanadium oxytrichloride	UN 2528 ...	102	Furfurylamine
UN 2351 ...	102	Butyl nitrite	UN 2444 ...	101	Vanadium oxytrichloride and titanium tetrachloride mixture	UN 2527 ...	102	Isobutyl acrylate
UN 2352 ...	102	Butyl vinyl ether	UN 2444 ...	101	Vanadium tetrachloride	UN 2528 ...	102	Isobutylisobutyrate
UN 2353 ...	102	Butyl chloride	UN 2445 ...	102	Lithium alkyls	UN 2529 ...	101	Isobutyric acid
UN 2354 ...	102	Chloromethyl ethyl ether	UN 2446 ...	102	Nitroresols	UN 2530 ...	101	Isobutyric anhydride
UN 2355 ...	102	2-Chloropropane	UN 2447 ...	102	Phosphorus white, molten	UN 2531 ...	102	Methacrylic acid
UN 2357 ...	101	Cyclohexylamine	UN 2448 ...	102	Sulphur, molten	UN 2533 ...	102	Methyl trichloroacetate
UN 2358 ...	102	Cyclooctatetraene	NA 2449 ...	101	Ammonium oxalate	UN 2534 ...	102	Methyl chlorosilane
UN 2359 ...	102	Diallylamine	NA 2449 ...	101	Cupric oxalate	UN 2535 ...	102	Methylmorpholine
UN 2360 ...	102	Diallylether	UN 2449 ...	102	Oxalates	UN 2536 ...	102	Methyltetrahydrofuran
UN 2361 ...	102	Diisobutylamine	UN 2451 ...	101	Nitrogen trifluoride	UN 2538 ...	102	Nitronaphthalene
UN 2362 ...	102	1,1-Dichloroethane	UN 2450 ...	102	2-Chloropropene	UN 2541 ...	102	Terpinene
UN 2363 ...	101	Ethyl mercaptan	UN 2450 ...	101	2-Chloropropene	UN 2542 ...	102	Tributylamine
UN 2364 ...	102	Propyl benzene	UN 2457 ...	101	2,3-Dimethylbutane	UN 2545 ...	102	Barium metal, dry
UN 2366 ...	102	Diethyl carbonate	UN 2458 ...	101	Hexadiene	UN 2546 ...	102	Barium metal powder, dry
UN 2367 ...	102	alpha-Methyl valeraldehyde	UN 2459 ...	102	2-Methyl-1-butene	UN 2546 ...	101	Titanium metal powder, dry or wet
UN 2368 ...	102	alpha-Pinene	UN 2460 ...	102	2-Methyl-2-butene	UN 2547 ...	102	Sodium superoxide
UN 2368 ...	101	Pinene	UN 2460 ...	101	Methyl butene	UN 2550 ...	102	Ethyl methyl ketone peroxide(s)
UN 2369 ...	102	Ethylene glycol monobutyl ether	UN 2461 ...	101	Methylpentadiene	UN 2550 ...	101	Methyl ethyl ketone peroxide
UN 2370 ...	102	Hex-1-ene	UN 2462 ...	102	Methyl pentane	UN 2551 ...	101	tert-Butyl peroxydiethylacetate, with tert-Butyl peroxybenzoate
UN 2371 ...	102	Isopentanes	UN 2462 ...	102	Methylpentanes	UN 2551 ...	102	tert-Butyl perdiethylacetate
UN 2373 ...	102	Diethoxymethane	UN 2463 ...	102	Aluminum hydride	UN 2552 ...	102	Hexafluoroacetone hydrate
UN 2375 ...	102	Diethyl sulfide	UN 2463 ...	101	Aluminum hydride	UN 2553 ...	102	Coal tar naphtha
UN 2376 ...	102	2,3-Dihydropyran	UN 2464 ...	101	Beryllium nitrate	NA 2553 ...	101	Coal tar naphtha
UN 2376 ...	101	Dihydropyran	UN 2465 ...	102	Dichloroisocyanuric acid	UN 2553 ...	101	Naphtha
UN 2377 ...	102	1,1-Dimethoxyethane	NA 2465 ...	101	Potassium dichloro-s-triazinetriene	UN 2554 ...	102	Methyl allyl chloride
UN 2379 ...	102	1,3-Dimethylbutylamine	UN 2465 ...	101	Sodium dichloro-s-triazinetriene	UN 2554 ...	102	Nitrocellulose
UN 2380 ...	102	Dimethyldiethoxysilane	UN 2466 ...	102	Potassium superoxide	UN 2555 ...	102	Nitrocellulose, colloided, granular or flake, wet with not less than 20% water
UN 2381 ...	102	Dimethyl disulfide	UN 2467 ...	102	Sodium percarbonates	NA 2555 ...	101	Nitrocellulose, wet with not less than 20% water
UN 2382 ...	102	Dimethylhydrazine	UN 2468 ...	102	Trichloroisocyanuric acid	UN 2556 ...	102	Nitrocellulose
UN 2383 ...	102	Dipropylamine	UN 2468 ...	101	Trichloro-s-triazinetriene (mono-(Trichloro) tetra-(monopotassium dichloro)-penta-s-triazinetriene, dry	UN 2557 ...	101	Nitrocellulose, wet with not less than 30% alcohol or solvent
UN 2384 ...	102	Dipropyl ether	UN 2469 ...	102	Zinc bromate	UN 2557 ...	101	Lacquer base, or Lacquer chips, dry
UN 2385 ...	102	Ethylisobutyrate	UN 2470 ...	102	Benzyl cyanide	UN 2557 ...	102	Nitrocellulose
UN 2386 ...	102	1-Ethyl piperidine	UN 2471 ...	102	Osmium tetroxide	UN 2558 ...	102	1-Bromo-2,3-epoxypropane
UN 2387 ...	102	Fluorobenzene	UN 2473 ...	102	Sodium arsenite	UN 2562 ...	101	tert-Butyl peroxyisobutyrate
UN 2388 ...	102	Fluorotoluenes	UN 2474 ...	101	Thiophosgene	UN 2562 ...	102	tert-Butyl perisobutyrate
UN 2389 ...	101	Furan	UN 2475 ...	102	Vanadium trichloride	UN 2564 ...	102	Trichloroacetic acid
UN 2390 ...	102	2-Iodobutane	UN 2477 ...	102	Methyl isothiocyanate			
UN 2391 ...	102	Iodomethylpropanes	UN 2478 ...	102	Isocyanates			
UN 2392 ...	102	Iodopropanes						
UN 2393 ...	102	Isobutyl formate						

(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Identification Number	Source 172.***	Description	Identification Number	Source 172.***	Description	Identification Number	Source 172.***	Description
UN 2564 ...	101	Trichloroacetic acid solution	UN 2757 ...	101	Carbamate pesticide, liquid, n.o.s.	UN 2779 ...	101	Substituted nitrophenol pesticide, liquid, n.o.s.
UN 2565 ...	102	Dicyclohexylamine	UN 2757 ...	101	Carbamate pesticide, solid, n.o.s.	UN 2779 ...	101	Substituted nitrophenol pesticide, solid, n.o.s.
UN 2567 ...	101	Sodium pentachlorophenate	NA 2757 ...	101	Carbaryl	UN 2780 ...	101	Substituted nitrophenol pesticide, liquid, n.o.s.
NA 2570 ...	101	Cadmium acetate	NA 2757 ...	101	Carbofuran	UN 2781 ...	101	Bipyridilium pesticide, liquid, n.o.s.
NA 2570 ...	101	Cadmium bromide	NA 2757 ...	101	Carbofuran mixture, liquid	UN 2781 ...	101	Bipyridilium pesticide, solid, n.o.s.
NA 2570 ...	101	Cadmium chloride	NA 2757 ...	101	Mercaptodimethur	UN 2782 ...	101	Diquat
UN 2570 ...	102	Cadmium compounds	NA 2757 ...	101	Mexacarbate	UN 2782 ...	101	Bipyridilium pesticide, liquid, n.o.s.
UN 2572 ...	102	Phenylhydrazine	UN 2758 ...	101	Carbamate pesticide, liquid, n.o.s.	UN 2783 ...	101	Azinphos methyl
UN 2573 ...	102	Thallium chlorate	UN 2759 ...	101	Arsenical pesticide, liquid, n.o.s.	NA 2783 ...	101	Azinphos methyl mixture, liquid
UN 2574 ...	102	Tricresylphosphate	UN 2759 ...	101	Arsenical pesticide, solid, n.o.s.	NA 2783 ...	101	Chlorpyrifos
UN 2582 ...	101	Ferric chloride solution	NA 2759 ...	101	Bordeaux arsenite, liquid	NA 2783 ...	101	Courmaphos
UN 2584 ...	101	Alkanesulfonic acid	NA 2759 ...	101	Bordeaux arsenite, solid	NA 2783 ...	101	Courmaphos mixture, liquid
NA 2584 ...	101	Dodecylbenzenesulfonic acid	UN 2760 ...	101	Arsenical pesticide, liquid, n.o.s.	NA 2783 ...	101	Diazinon
UN 2584 ...	101	Toluene sulfonic acid, liquid	NA 2761 ...	101	Endosulfan mixture, liquid	NA 2783 ...	101	Diazinon
NA 2588 ...	101	Insecticide, dry, n.o.s.	NA 2761 ...	101	Aldrin	NA 2783 ...	101	Dichlorvos
UN 2588 ...	102	Pesticides	NA 2761 ...	101	Aldrin, cast solid	NA 2783 ...	101	Dichlorvos mixture, dry
UN 2590 ...	102	Asbestos, white	NA 2761 ...	101	Aldrin mixture, dry, with 65% or less aldrin	NA 2783 ...	101	Disulfoton
UN 2592 ...	101	Dialkylperoxydicarbonate	NA 2761 ...	101	DDT or	NA 2783 ...	101	Disulfoton mixture, dry
UN 2592 ...	102	Dialkylperoxydicarbonate	NA 2761 ...	101	Dichlorodiphenyltrichloroethane	NA 2783 ...	101	Disulfoton mixture, liquid
UN 2593 ...	102	Bis-(2-methylbenzoyl)peroxide	NA 2761 ...	101	Dichloro	NA 2783 ...	101	Ethion
UN 2593 ...	101	Di-(2-methylbenzoyl)peroxide	NA 2761 ...	101	Endosulfan	NA 2783 ...	101	Ethion mixture, dry
UN 2594 ...	101	tert-Butylperoxyneodecanoate	NA 2761 ...	101	Endrin	NA 2783 ...	101	Hexaethyl tetraphosphate mixture, dry
UN 2594 ...	102	tert-Butylperoxyneodecanoate	NA 2761 ...	101	Endrin mixture, liquid	NA 2783 ...	101	Malathion
UN 2595 ...	101	Dimyristylperoxydicarbonate	NA 2761 ...	101	Heptachlor	NA 2783 ...	101	Methyl parathion, liquid
UN 2595 ...	102	Dimyristylperoxydicarbonate	NA 2761 ...	101	Kelthane	NA 2783 ...	101	Methyl parathion mixture, dry
UN 2596 ...	102	3-tert-Butylperoxy-3-phenyl phthalide	NA 2761 ...	101	Kepona	NA 2783 ...	101	Methyl parathion mixture, liquid
UN 2596 ...	101	3-tert-Butylperoxy-3-phenylphthalide	NA 2761 ...	101	Lindane	NA 2783 ...	101	Methyl parathion mixture, liquid
UN 2597 ...	102	Bis-(3,5,5-trimethyl-1,2-dioxolanyl-3)peroxide	UN 2761 ...	101	Methoxychlor	NA 2783 ...	101	Methyl parathion mixture, liquid, (containing 25% or less methyl parathion)
UN 2597 ...	101	Di-(3,5,5-trimethyl-1,2-dioxolanyl-3)peroxide	UN 2761 ...	101	Organochlorine pesticide, liquid, n.o.s.	NA 2783 ...	101	Mevinphos
UN 2598 ...	102	Ethyl-3,3-bis(tert-butylperoxy)butyrate	UN 2761 ...	101	Organochlorine pesticide, solid, n.o.s.	NA 2783 ...	101	Mevinphos mixture, dry
UN 2598 ...	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	NA 2761 ...	101	TDE	NA 2783 ...	101	Mevinphos mixture, liquid
UN 2602 ...	101	Dichlorodifluoromethane and difluoroethane mixture	NA 2762 ...	101	Toxaphene	UN 2783 ...	101	Mipafox
UN 2603 ...	102	Cycloheptatriene	NA 2762 ...	101	Aldrin mixture, liquid	NA 2783 ...	101	Naled
UN 2604 ...	102	Boron trifluoride diethyl etherate	NA 2762 ...	101	Aldrin mixture, liquid, with 80% or less aldrin	NA 2783 ...	101	Organic phosphate mixture, Organic phosphate compound mixture, or Organic phosphorus compound mixture; liquid
UN 2605 ...	102	Methoxymethyl isocyanate	NA 2762 ...	101	Chlordane, liquid	NA 2783 ...	101	Organic phosphate mixture, Organic phosphate compound mixture, or Organic phosphorus compound mixture; solid or dry
UN 2606 ...	102	Methyl orthosilicate	UN 2762 ...	101	Organochlorine pesticide, liquid, n.o.s.	UN 2783 ...	101	Organophosphorus pesticide, liquid, n.o.s.
UN 2607 ...	102	Acrolein dimer	UN 2763 ...	101	* Triazine pesticide, liquid, n.o.s.	UN 2783 ...	101	Organophosphorus pesticide, solid, n.o.s.
UN 2608 ...	102	Nitropropanes	UN 2763 ...	101	Triazine pesticide, solid, n.o.s.	UN 2783 ...	101	Parathion, liquid
UN 2610 ...	102	Triethylamine	UN 2764 ...	101	Triazine pesticide, liquid, n.o.s.	UN 2783 ...	101	Parathion mixture, dry
UN 2612 ...	102	Methyl propyl ether	NA 2765 ...	101	2,4-Dichlorophenoxyacetic acid	UN 2783 ...	101	Parathion mixture, liquid
UN 2614 ...	102	Methyl alcohol	NA 2765 ...	101	2,4-Dichlorophenoxyacetic acid ester	UN 2783 ...	101	Phenacpton
UN 2615 ...	102	Ethyl propyl ether	UN 2765 ...	101	Phenoxy pesticide, liquid, n.o.s.	UN 2783 ...	101	Tetraethyl pyrophosphate, liquid
UN 2616 ...	102	Triisopropyl borate	UN 2765 ...	101	Phenoxy pesticide, solid, n.o.s.	UN 2783 ...	101	Tetraethyl pyrophosphate mixture, dry
UN 2617 ...	102	Methyl cyclohexanol	NA 2765 ...	101	Propargite	UN 2783 ...	101	Tetraethyl pyrophosphate mixture, liquid
UN 2618 ...	102	Vinyl Toluene	NA 2765 ...	101	2,4,5-Trichlorophenoxyacetic acid	UN 2783 ...	101	Trichlorfon
UN 2619 ...	102	Benzyl dimethylamine	UN 2765 ...	101	2,4,5-Trichlorophenoxyacetic acid ester	UN 2784 ...	101	Organophosphorus pesticide, liquid, n.o.s.
UN 2621 ...	102	Acetyl methyl carbinol	NA 2765 ...	101	amine, ester, or salt	UN 2785 ...	102	4-Thiopenentol
UN 2622 ...	102	Glycidaldehyde	UN 2765 ...	101	2,4,5-Trichlorophenoxypropionic acid	UN 2786 ...	101	Organotin pesticide, liquid, n.o.s.
NA 2628 ...	101	Chloric acid	UN 2765 ...	101	2,4,5-Trichlorophenoxypropionic acid ester	UN 2786 ...	101	Organotin pesticide, solid, n.o.s.
UN 2630 ...	101	Sodium selenite	UN 2766 ...	101	Phenoxy pesticide, liquid, n.o.s.	UN 2787 ...	101	Organotin pesticide, liquid, n.o.s.
UN 2648 ...	101	Hexachlorocyclopentadiene	UN 2766 ...	101	Duron	UN 2789 ...	101	Acetic acid, glacial
UN 2655 ...	102	Potassium silicofluoride	UN 2767 ...	101	Phenylurea pesticide, liquid, n.o.s.	UN 2790 ...	101	Acetic acid
UN 2656 ...	101	Quinoline	UN 2767 ...	101	Phenylurea pesticide, solid, n.o.s.	NA 2791 ...	101	Aircraft rocket engine
UN 2670 ...	102	Cyanuric chloride	UN 2767 ...	101	Phenylurea pesticide, liquid, n.o.s.	UN 2792 ...	101	Aircraft rocket engine igniter
UN 2672 ...	102	Ammonia solutions	UN 2768 ...	101	Benzoic derivative pesticide, liquid, n.o.s.	UN 2793 ...	102	Iron swarf
NA 2672 ...	101	Ammonium hydroxide	UN 2768 ...	101	Benzoic derivative pesticide, solid, n.o.s.	UN 2793 ...	101	Metal borings, shavings, turnings, or cuttings
UN 2674 ...	102	Sodium silicofluoride	UN 2769 ...	101	Dicamba	NA 2794 ...	101	Battery charger with electrolyte (acid) or alkaline battery fluid
NA 2683 ...	101	Ammonium hydrosulfide solution	UN 2769 ...	101	Dichlobenil	NA 2794 ...	101	Battery, electric storage, wet
UN 2683 ...	101	Ammonium sulfide solution	UN 2769 ...	101	Benzoic derivative pesticide, liquid, n.o.s.	NA 2794 ...	101	Battery, electric storage, wet, with automobile, auto parts, engine
UN 2686 ...	102	Diethylaminoethanol	UN 2771 ...	101	Dithiocarbamate pesticide, liquid, n.o.s.	NA 2794 ...	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2692 ...	101	Boron tribromide	UN 2771 ...	101	Dithiocarbamate pesticide, solid, n.o.s.	UN 2796 ...	101	Electrolyte (acid) battery fluid
NA 2693 ...	101	Ammonium bisulfite, solid	UN 2771 ...	101	Thiram			
NA 2693 ...	101	Ammonium bisulfite solution	UN 2772 ...	101	Dithiocarbamate pesticide, liquid, n.o.s.			
NA 2693 ...	101	Calcium hydrogen sulfite solution	UN 2773 ...	101	Phthalimide derivative pesticide, liquid, n.o.s.			
NA 2693 ...	101	Potassium metabisulfite	UN 2773 ...	101	Phthalimide derivative pesticide, solid, n.o.s.			
NA 2693 ...	101	Sodium hydrogen sulfite, solid	UN 2774 ...	101	Phthalimide derivative pesticide, liquid, n.o.s.			
NA 2693 ...	101	Sodium hydrogen sulfite, solution	UN 2775 ...	101	Copper based pesticide, liquid, n.o.s.			
NA 2693 ...	101	Sodium metabisulfite	UN 2775 ...	101	Copper based pesticide, solid, n.o.s.			
UN 2703 ...	101	Isopropyl mercaptan	UN 2776 ...	101	Copper based pesticide, liquid, n.o.s.			
UN 2704 ...	101	Propyl mercaptan	UN 2777 ...	101	Mercury based pesticide, liquid, n.o.s.			
UN 2706 ...	102	Diethylcarbinol	UN 2777 ...	101	Mercury based pesticide, solid, n.o.s.			
UN 2707 ...	102	Dimethylsiloxanes	UN 2778 ...	101	Mercury based pesticide, liquid, n.o.s.			
UN 2708 ...	102	Butoxyl						
UN 2709 ...	102	Butyl benzenes						
UN 2710 ...	102	Butyrene						
UN 2711 ...	102	Dibromobenzene						
UN 2725 ...	101	Nickel nitrate						
UN 2728 ...	101	Zirconium nitrate						
UN 2733 ...	102	Alkylamines and polyamines						
UN 2740 ...	102	n-Propyl chloroformate						
UN 2749 ...	102	Tetramethylsilane						
UN 2752 ...	102	1,2-Epoxy-3-ethoxy propane						
UN 2755 ...	101	3-Chloroperoxybenzoic acid						
UN 2755 ...	102	m-Chloroperoxybenzoic acid						
UN 2756 ...	101	Organic peroxide, mixture						
UN 2756 ...	102	Organic peroxides, mixture						

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 2797	101	Alkaline battery fluid
NA 2797	101	Alkaline battery fluid with empty storage battery
NA 2797	01	Electrolyte (acid) or alkaline battery fluid, packed with battery charger, radio current supply device, or electronic equipment and actuating device.
NA 2797	101	Electrolyte (acid) or alkaline battery fluid, packed with dry-storage battery
UN 2798	101	Benzene phosphorus dichloride
UN 2799	101	Benzene phosphorus trichloride
NA 2801	101	Coal tar dye, liquid
UN 2801	101	Dye intermediate, liquid
UN 2802	101	Copper chloride
UN 2803	101	Gallium metal, liquid
UN 2803	101	Gallium metal, solid
UN 2805	101	Lithium hydride in fused solid form
UN 2806	101	Lithium nitride
UN 2807	101	Magnetized material
NA 2808	101	Mercury, metallic
NA 2810	101	Arsenious and mercuric iodide solution
NA 2810	101	Compound, tree or weed killing, liquid
NA 2810	101	Drugs, n.o.s. liquid
UN 2810	101	Poisonous liquid, n.o.s. or Poison B, liquid, n.o.s.
UN 2810	102	Poisonous liquids, n.o.s.
(UN 2810)	102	Sodium fluoride
NA 2811	101	Drugs, n.o.s. solid
NA 2811	101	Flue dust, poisonous
NA 2811	101	Lead fluoride
NA 2811	101	Lead iodide
NA 2811	101	Lead stearate
UN 2811	101	Poisonous solid, n.o.s. or Poison B, solid, n.o.s.
UN 2811	102	Poisonous solids, n.o.s.
NA 2811	101	Selenium oxide
(UN 2811)	102	Silcofluorides
UN 2812	101	Sodium aluminate, solid
NA 2813	101	Lithium acetylide-ethylene diamine complex
UN 2813	101	Water reactive solid, n.o.s.
NA 2814	101	Etiologic agent, n.o.s.
UN 2814	101	Infectious substance, human, n.o.s.
UN 2815	101	N-Aminoethylpiperazine
UN 2817	101	Ammonium hydrogen fluoride solution
UN 2818	101	Ammonium polysulfide solution
UN 2819	101	Amyl acid phosphate
UN 2820	101	Butyric acid
NA 2821	101	Phenol, liquid or solution
UN 2823	101	Crotonic acid
UN 2826	101	Ethyl chlorothioformate
UN 2830	101	Lithium ferrosilicon
UN 2831	101	1,1,1-Trichloroethane
UN 2835	101	Sodium aluminum hydride
UN 2837	101	Sodium hydrogen sulfate solution
NA 2845	101	Ethyl phosphorous dichloride, anhydrous
NA 2845	101	Methyl phosphorous dichloride
UN 2845	101	Pyrophoric liquid, n.o.s. or Pyrophoric liquid, n.o.s.
UN 2854	101	Ammonium silicofluoride
UN 2855	101	Zinc silicofluoride
UN 2857	101	Refrigerating machine
UN 2859	102	Ammonium metavanadate
UN 2860	102	Vanadium trioxide
UN 2861	102	Ammonium polyvanadate
UN 2862	101	Vanadium pentoxide
UN 2863	102	Sodium-ammonium-vanadate
UN 2864	102	Potassium metavanadate
UN 2867	101	Ink
UN 2868	101	Resin solution
UN 2870	101	Resorcinol
UN 2880	101	Calcium hypochlorite, hydrated
UN 2883	101	2,2-Di-(tert-butylperoxy)propane
UN 2884	101	2,2-Di-(tert-butylperoxy)propane

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
UN 2885	101	1,1-Di-(tert-butylperoxy)cyclohexane
UN 2886	101	tert-Butyl peroxy-2-ethylhexanoate, with 2,2-Di-(tert-butylperoxy)butane
UN 2887	101	tert-Butyl peroxy-2-ethylhexanoate, with 2,2-Di-(tert-butylperoxy)butane
UN 2888	101	tert-Butyl peroxy-2-ethylhexanoate
UN 2889	101	Disotridecyl peroxydicarbonate
UN 2890	101	tert-Butyl peroxybenzoate
UN 2891	101	tert- Amyl peroxyneodecanoate
UN 2892	101	Dimyristyl peroxydicarbonate
UN 2893	101	Lauroyl peroxide
UN 2894	101	Di-(4-tert-butylcyclohexyl)peroxydicarbonate
UN 2895	101	Diethyl peroxydicarbonate
UN 2896	101	Cyclohexanone peroxide
UN 2897	101	1,1-Di-(tert-butylperoxy)cyclohexane
UN 2898	101	tert-Amyl peroxy-2-ethylhexanoate
UN 2899	101	Organic peroxide, trial quantity, n.o.s.
NA 2902	101	Allethrin
NA 2902	101	Insecticide, liquid, n.o.s.
UN 2910	101	Radioactive material, limited quantity, n.o.s.
UN 2911	101	Radioactive device, n.o.s.
UN 2912	101	Radioactive material, low specific activity or LSA, n.o.s.
UN 2918	101	Radioactive material, fissile, n.o.s.
UN 2922	101	Corrosive liquid, poisonous, n.o.s.
NA 2922	101	Dimethyl chlorothiophosphate
NA 2922	101	Sodium hydrosulfite, solution
NA 2923	101	Sodium hydrosulfide, solid
UN 2924	101	Dichlorobutene
UN 2924	101	Flammable liquid, corrosive, n.o.s.
UN 2925	101	Flammable solid, corrosive, n.o.s.
UN 2926	101	Flammable liquid, poisonous, n.o.s.
UN 2928	101	Poisonous solid, corrosive, n.o.s.
NA 9011	101	Camphene
NA 9018	101	Dichlorodifluoroethylene
NA 9026	101	Dinitrocyclohexylphenol
NA 9035	101	Gas identification set
NA 9037	101	Hexachloroethane
NA 9053	101	Oiled material
NA 9069	101	Tetramethylmethylenediamine
NA 9077	101	Adipic acid
NA 9078	101	Aluminum sulfate, solid
NA 9079	101	Ammonium acetate
NA 9080	101	Ammonium benzoate
NA 9081	101	Ammonium bicarbonate
NA 9083	101	Ammonium carbonate
NA 9084	101	Ammonium carbamate
NA 9085	101	Ammonium chloride
NA 9086	101	Ammonium chromate
NA 9087	101	Ammonium citrate, dibasic
NA 9088	101	Ammonium fluoroborate
NA 9089	101	Ammonium sulfamate
NA 9090	101	Ammonium sulfite
NA 9091	101	Ammonium tartrate
NA 9092	101	Ammonium thiocyanate
NA 9093	101	Ammonium thiosulfate
NA 9094	101	Benzoic acid
NA 9095	101	n-Butyl phthalate
NA 9096	101	Calcium chromate
NA 9097	101	Calcium dodecylbenzenesulfonate
NA 9099	101	Captan
NA 9100	101	Chromic sulfate
NA 9101	101	Chromic acetate
NA 9102	101	Chromic chloride
NA 9103	101	Cobaltous bromide
NA 9104	101	Cobaltous formate
NA 9105	101	Cobaltous sulfamate
NA 9106	101	Cupric acetate
NA 9109	101	Cupric sulfate
NA 9110	101	Cupric sulfate, ammoniated
NA 9111	101	Cupric tartrate
NA 9117	101	Ethylene diaminetetraacetic acid
NA 9118	101	Ferric ammonium citrate
NA 9119	101	Ferric ammonium oxalate
NA 9120	101	Ferric fluoride
NA 9121	101	Ferric sulfate

(1) Identifi- cation Number	(2) Source 172.***	(3) Description
NA 9122	101	Ferrous ammonium sulfate
NA 9125	101	Ferrous sulfate
NA 9126	101	Fumaric acid
NA 9127	101	Isopropanolamine
		dodecylbenzenesulfonate
NA 9134	101	Lithium chromate
NA 9137	101	Naphthenic acid
NA 9138	101	Nickel ammonium sulfate
NA 9139	101	Nickel chloride
NA 9140	101	Nickel hydroxide
NA 9141	101	Nickel sulfate
NA 9142	101	Potassium chromate
NA 9145	101	Sodium chromate
NA 9146	101	Sodium dodecylbenzenesulfonate
NA 9147	101	Sodium phosphate, dibasic
NA 9148	101	Sodium phosphate, tribasic
NA 9149	101	Strontium chromate
NA 9151	101	Triethanolamine
		dodecylbenzenesulfonate
NA 9152	101	Vanadyl sulfate
NA 9153	101	Zinc acetate
NA 9154	101	Zinc ammonium chloride
NA 9155	101	Zinc borate
NA 9156	101	Zinc bromide
NA 9157	101	Zinc carbonate
NA 9158	101	Zinc fluoride
NA 9159	101	Zinc formate
NA 9160	101	Zinc phenolsulfonate
NA 9161	101	Zinc sulfate
NA 9162	101	Zirconium potassium fluoride
NA 9163	101	Zirconium sulfate
NA 9170	101	Thorium metal, pyrophoric
NA 9171	101	Thorium nitrate
NA 9173	101	Uranium hexafluoride, fissile
NA 9174	101	Uranium hexafluoride, low specific activity
NA 9175	101	Uranium metal, pyrophoric
NA 9177	101	Uranyl nitrate, solid
NA 9178	101	Uranyl nitrate hexahydrate solution
NA 9180	101	Uranyl acetate
NA 9181	101	Radioactive material, n.o.s.
NA 9182	101	Radioactive material, special form, n.o.s.
NA 9183	101	Organic peroxide, liquid or solution, n.o.s.
NA 9184	101	Pyrethrins
NA 9185	101	Plutonium nitrate, solution
NA 9187	101	Organic peroxide, solid, n.o.s.
NA 9188	101	Hazardous substance, liquid or solid, n.o.s.
NA 9189	101	Hazardous waste, liquid or solid, n.o.s.
NA 9190	101	Ammonium permanganate
NA 9191	101	Chlorine dioxide hydrate, frozen
NA 9193	101	Oxidizer, corrosive, liquid, n.o.s.
NA 9194	101	Oxidizer, corrosive, solid, n.o.s.
NA 9195	101	Metal alkyl, solution, n.o.s.
NA 9199	101	Oxidizer, poisonous, liquid, n.o.s.
NA 9200	101	Oxidizer, poisonous, solid, n.o.s.
NA 9201	101	Antimony trioxide

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8. (16.) In § 172.201 paragraph (a)(1)(iii) is revised to read as follows:
§ 172.201 General entries.

(a) * * *

(1) * * *

(iii) Must be identified by the entry of an "X" placed before the proper shipping name in a column captioned "HM." (The "X" may be replaced by "RQ." if appropriate.)

* * * * *
9. (17.) Section 172.202 is revised to read as follows:

§ 172.202 Description of hazardous materials on shipping papers.

(a) The shipping description of a hazardous material on a shipping paper must include:

- (1) The proper shipping name prescribed for the material in § 172.101 or § 172.102 (when authorized);
- (2) The hazard class prescribed for the material in the same section. Except for a proper shipping name that contains words describing more than one hazard class, inclusion of the hazard class is not required when the words of the proper shipping name contain the key word or words of the hazard class of the material, such as Flammable liquid; Poison B, liquid; Radioactive device; or Corrosive liquid;
- (3) The identification number (preceded by "UN" or "NA" as appropriate) prescribed for the material in the same section; and

(4) Except for empty packagings, the total quantity (by weight, volume, or as otherwise appropriate) of the hazardous material covered by the description.

(b) Except as provided in this subpart, the basic description specified in paragraphs (a) (1), (2) and (3) of this section must be shown in sequence. For example: "Gasoline, Flammable liquid, UN1203."

(c) The total quantity of the material covered by one description must appear before or after, or both before and after, the basic description required and authorized by this subpart.

(1) Abbreviations may be used to specify the type of packaging and weight or volume. For example: "40 cyl. Nitrogen, Nonflammable gas, UN1066, 800 pounds"; "1 box Cement, liquid, n.o.s., Flammable liquid, NA1133, 25 lbs."

(2) The type of packaging and destination marks may be entered in any appropriate manner before or after the basic description.

(d) Technical and chemical group names may be entered in parentheses between the proper shipping name and hazard class.

10. (18.) Section 172.203 is revised to read as follows:

§ 172.203 Additional description requirements.

(c) *Hazardous substances.* (1) If the proper shipping name for a mixture or solution that is a hazardous substance does not identify the constituents

making it a hazardous substance, the name or names of such hazardous substance constituents as shown in § 172.101 shall be entered in association with the basic description. This requirement also applies when descriptions from the Optional Table in § 172.102 are used.

(e) *Empty packagings.*

(1) Except for a tank car, or any packaging that still contains a hazardous substance, the description on the shipping paper for an empty packaging containing the residue of a hazardous material may include the word(s) "EMPTY" or "EMPTY: Last contained * * *" as appropriate in association with the basic description of the hazardous material last contained in the packaging.

(i) *Transportation by water.*

(2) The shipping paper for a hazardous material offered for transportation by vessel to any country outside the United States must have in parentheses the technical name of the material immediately following the proper shipping name when the material is described by an n.o.s. entry in § 172.101 or § 172.102. For example: "Corrosive liquid, n.o.s. (Caprylyl chloride), UN1760." If the material is a mixture of two or more hazardous materials, the names of at least two components most predominately contributing to the hazard or hazards of the mixture shall be entered in parentheses. For example: "Flammable liquid, corrosive, n.o.s. (Methyl alcohol, Potassium hydroxide), UN2924." The provisions of this paragraph do not apply—

(i) If the n.o.s. description for the material (other than a mixture of hazardous materials of different classes meeting the definition of more than one hazard class) contains the name of the chemical element or group which is primarily responsible for the material being included in the hazard class indicated. For example: "Mercury compound, solid, n.o.s., Poison B, UN2025."

(ii) If the n.o.s. description for the material (which is a mixture of hazardous materials of different classes meeting the definition of more than one hazard class) contains the name of the chemical element or group responsible for the material meeting the definition of

one of these classes. In such cases, only the technical name of the component that is not appropriately identified in the n.o.s. description shall be entered in parentheses. For example: "Carbamate pesticide, liquid, n.o.s. (contains Xylene), Flammable liquid, UN2758."

(iii) To the identification of more than one hazardous material in a mixture prior to July 1, 1981.

(j) *Dangerous When Wet.* The words "Dangerous When Wet" shall be entered on the shipping paper in association with the basic description when a package covered by the basic description is required to be labeled with a DANGEROUS WHEN WET label.

(1) This requirement does not apply prior to July 1, 1981.

(k) *Poisonous materials.* Notwithstanding the class to which a material is assigned—

(1) If the name of the compound or principal constituent that causes a material to meet the definition of a poison (according to this subchapter) is not included in the proper shipping name for the material, the name of that compound or constituent shall be entered on the shipping paper in association with the shipping description for the material. The name of the compound or principal constituent may be either a technical name or any name for the material that is listed in the NIOSH Registry. This subparagraph does not apply to—

(i) A material having a proper shipping name that includes the chemical element or group which causes the material to be a poison.

(ii) Limited Quantities.

(2) If a liquid or solid material in a package meets the definition of a poison according to this subchapter, and the fact that it is a poison is not disclosed in the shipping name or class entry, the word "Poison" shall be entered on the shipping paper in association with the shipping description.

(3) The provisions of paragraphs (k)(1) and (2) of this section do not apply—

(i) To consumer commodities, ORM-D, or

(ii) To compounds or principal constituents that would cause death by corrosive destruction to tissue rather than by systemic poisoning.

(iii) Prior to July 1, 1981.

11. Section 172.300 is redesignated and revised as § 172.301; and a new § 172.300 is added to read as follows:

§ 172.300 Applicability.

(a) Each person who offers a hazardous material for transportation shall mark each package, freight container, and transport vehicle containing the hazardous material in the manner required by this subpart.

(b) When assigned the function by this subpart, each carrier that transports a hazardous material shall mark each package, freight container, and transport vehicle containing the hazardous material in the manner required by this subpart.

(21.)

§ 172.301 General marking requirements.

(a) Except as provided by this subchapter, each person who offers for transportation a hazardous material in a packaging having a rated capacity of 110 gallons or less shall mark the package with the proper shipping name and identification number (preceded by "UN" or "NA" as appropriate) assigned to the material in § 172.101 or § 172.102 (when authorized).

(1) The proper shipping name is not required to include the word "Waste" as specified by § 172.101(c)(10) if the package bears the EPA marking prescribed by 40 CFR 262.32.

(b) When it has been determined by the shipper that a package has been previously marked as required for the material it contains, it need not be remarked. (For empty packagings, see § 173.29 of this subchapter.)

(c) This section does not apply to—

(1) Display of identification numbers on packages containing Limited Quantities (see § 171.8 of this subchapter) or materials classed as ORM-D (see § 173.1200 of this subchapter) when packed with no other hazardous material.

(2) Display of identification numbers on packagings having a rated capacity of 110 gallons or less filled for shipment prior to July 1, 1983.

(3) Display of new or changed proper shipping names for hazardous materials adopted under Amending No. 172-58 on packages filled for shipment prior to July 1, 1981.

Note.—EPA requires special markings for hazardous wastes. See 40 CFR 262.32.

12. § 172.302 is revised to read as follows:

§ 172.302 Export shipments by water.

(a) Each package of hazardous material offered for export by water and described by a "n.o.s." entry in § 172.101 or § 172.102 (when authorized) must

have the technical name or names of the material added in parentheses immediately following the proper shipping name (see § 172.203(i)(2)). For example: Corrosive liquid, n.o.s. (Caprylyl chloride).

(b) For a mixture of two or more hazardous materials, the technical name of at least two components most predominately contributing to the hazard or hazards of the mixture must be added in parentheses immediately following the proper shipping name.

(c) The requirements of this section to identify more than one hazardous material in a mixture do not apply prior to July 1, 1981.

13. § 172.308 is revised to read as follows:

§ 172.308 Authorized abbreviations.

(a) Abbreviations may not be used in a proper shipping name marking except in the following instances—

(1) For marking descriptions of ammunition, such as Ammunition for cannon without projectile, etc., the words "with" or "without" may be abbreviated as "W" or "W/O". For example: "Ammunition for cannon W/O projectile."

(2) The abbreviation "ORM" may be used in place of the words "Other Regulated Material."

14. (22.) In § 172.316 the introductory text of paragraph (a) is revised, and paragraph (c) is revised, as follows:

§ 172.316 Packagings containing material classed as ORM.

(a) Each packaging having a rated capacity of 110 gallons or less and containing a material classed as ORM-A, B, C, D, or E must be plainly, durably, and legibly marked on at least one side or end with the appropriate ORM designation immediately following or below the proper shipping name of the material. The appropriate ORM designation must be placed within a rectangle that is approximately ¼ inch (6.3 mm.) larger on each side than the designation. The appropriate designation for each ORM must be:

* * * * *

(c) The marking ORM-A, B, C, D, or E is the certification by the person offering the package for transportation that the material is properly described, classed, packaged, marked and labeled (when appropriate) and in proper condition for transportation according to the applicable regulations of this subchapter. This form of certification does not preclude the requirement for a certificate on a shipping paper when required by Subpart C of this Part.

15. (23.) The section heading and the text of § 172.324 are revised to read as follows:

§ 172.324 Hazardous substances.

(a) If the proper shipping name for a mixture or solution that is a hazardous substance does not identify the constituents making it a hazardous substance, the name or names of such hazardous substance constituents as shown in § 172.101 shall be entered in association with the proper shipping name on each packaging having a capacity of 110 gallons or less. This requirement also applies when descriptions from the Optional Table in § 172.102 are used.

(b) The letters RQ shall be displayed in association with the proper shipping name on a packaging having a capacity of 110 gallons or less that contains a hazardous substance.

(c) This section does not apply prior to July 1, 1983.

16. (24.) In § 172.326 "(when authorized)" is added following the reference to § 172.102 in subparagraph (a)(2) and paragraph (d); the words "or ends" are deleted in the first line of subparagraph (a)(2)(ii); and in the second line of paragraph (d) "paragraph (a)" is revised to read "subparagraph (a)(2)".

17. (25.) In § 172.328 paragraph (a) is revised by addition of "(when authorized)" before the period at the end of the sentence in line 8; paragraphs (a)(1) and (b) are revised as follows; and paragraph (d) is amended by adding "in letters no less than two inches (50.8 mm.) in height" before the period at the end of the paragraph.

§ 172.328 Cargo tanks.

(a) * * *

(1) A person who offers a motor carrier a hazardous material for transportation in a cargo tank shall provide the motor carrier the required identification numbers on placards or shall affix orange panels containing the required identification numbers, prior to or at the time the material is offered for transportation unless the cargo tank is already marked with the identification number required by this subpart in accordance with paragraph (f) of this section and § 173.29(c) of this subchapter.

* * * * *

(b) When the name of a material is required by this subchapter to be marked on a cargo tank, it must be legibly displayed on each end and each side in lettering no less than two inches (50.8 mm.) in height.

* * * * *

18. (26.) In § 172.330 paragraphs (a)(2), (c)(1) and (e) are revised by the addition of "(when authorized)" immediately following "§ 172.102"; and the introductory text of paragraph (g) and subparagraphs (g) (1) and (2) are revised to read as follows:

§ 172.330 Tank cars and multi-unit tank car tanks.

(g) Each multi-unit tank car tank and each tank car (except when it contains a combustible liquid) must remain marked when empty unless—

- (1) Reloaded with a material not subject to this subchapter, or
- (2) Sufficiently cleaned of residue and purged of vapor to remove any potential hazard.

19. (27.) and (28.) Section 172.332 is revised to read as follows:

§ 172.332 Identification number markings.

(a) *General.* When required by this subpart, identification numbers shall be displayed on orange panels or placards as specified in this section.

(b) *Orange panels.* Display of an identification number on an orange panel shall be in conformance with the following:

(1) The orange panel must be 6¼ inches (16 cm.) high by 15¼ inches (40 cm.) wide with a ¼ inch (15 mm.) black outer border. The identification number shall be displayed in 4-inch (10 cm.) black Helvetica Medium numerals on the orange panel. Measurements may vary from those specified plus or minus 0.2 of an inch (5 mm.).

(2) The orange panel may be made of any durable material prescribed for placards in § 172.519, and shall be of the orange color specified for labels or placards in Appendix A to this Part.

(3) The name and hazard class of a material represented by the identification number may be shown in the upper left border of the orange panel in letters not more than ¼ inch (18 points) high.

(4) Except for size and color, the orange panel and identification numbers shall be as illustrated for Liquefied petroleum gas:



(c) *Placards.* Display of an identification number on a hazard warning placard shall be in conformance with the following:

(1) The identification number shall be displayed across the center area of the placard in 3½ inch (89 mm.) black Alpine Gothic or Alternate Gothic No. 3 numerals on a white background 4 inches (10 cm.) high and approximately 8½ inches (21.5 cm.) wide.

(2) The top of the 4-inch (10 cm.) high white background shall be approximately 1½ inches (40.0 mm.) above the placard horizontal center line.

(3) When an identification number is displayed on a placard the United Nations hazard class number for the material shall be displayed in the lower corner of each placard as specified in § 172.519(d).

(4) For a COMBUSTIBLE placard used to display an identification number, the entire background below the white background for the identification number must be white during transportation by rail or highway.

(5) The name of the hazardous material and the hazard class may be shown in letters not more than ¼ inch (18 points) high immediately within the upper border of the space on the placard bearing the identification number of the material.

(6) If an identification number is placed over the word(s) on a placard, the word(s) should be substantially covered to maximize the effectiveness of the identification number.

(d) Except for size and color, the display of an identification number on a placard shall be as illustrated for Acetone:



20. § 172.334 is revised to read as follows:

§ 172.334 Identification numbers; prohibited display.

(a) An identification number may not be displayed on a POISON GAS,

RADIOACTIVE or EXPLOSIVES placard.

(b) An identification number may not be displayed on an orange panel or a placard affixed to any package, freight container or transport vehicle that does not contain a hazardous material associated with that identification number in § 172.101 or § 172.102 (when authorized).

(c) Except as required by § 172.332(c)(4) for a combustible liquid, the identification number of a material may not be displayed on a placard other than the one required by Subpart F of this Part for the material.

(d) Except as provided in § 172.336, a placard bearing an identification number may not be used to meet the requirements of Subpart F of this Part unless it is the correct identification number for all hazardous materials of the same class in the transport vehicle or freight container on which it is displayed.

(e) Except as specified in § 172.338, an identification number may not be displayed on an orange panel on a cargo tank unless affixed to the cargo tank by the person offering the hazardous material for transportation in the cargo tank.

(f) If a placard is required by § 172.504, an identification number may not be displayed on an orange panel unless it is displayed in proximity to the placard.

21. (28A.) § 172.336 is revised to read as follows:

§ 172.336 Identification numbers; special provisions and exceptions.

(a) When not required or prohibited by this subpart, identification numbers may be displayed on a transport vehicle or a freight container in the manner prescribed by this subpart.

(b) For hazardous materials in hazard classes for which placards are not required, identification numbers may be displayed on a plain white square-on-point configuration having the same outside dimensions as those prescribed by this Part for placards. An identification number displayed as authorized by this paragraph is not considered a placard.

(1) The 4-inch (10 cm.) by 8½ inch (21.5 cm.) area containing the identification number shall be located as prescribed by § 172.332 (c)(2) and (c)(3) and may be outlined with a solid or dotted line border.

(c) Identification numbers are not required—

(1) On the ends of a portable tank, cargo tank or tank car having more than one compartment if hazardous materials having different identification numbers are being transported therein. In such a circumstance, the identification numbers on the sides of the tank shall be displayed in the same sequence as the compartments containing the materials they identify.

(2) On a cargo tank containing only gasoline, if the cargo tank is marked "Gasoline" on each side and rear in letters no less than 2 inches high, or is placarded in accordance with § 172.542(c).

(3) On a cargo tank containing only fuel oil, if the cargo tank is marked "Fuel Oil" on each side and rear in letters no less than 2 inches high, or is placarded in accordance with § 172.544(c).

(4) For different liquid distillate fuels, including gasoline, in a compartmented cargo tank or tank car, if the identification number is displayed for the distillate fuel having the lowest flash point.

(5) For each of the different liquid distillate fuels, including gasoline, transported in a cargo tank, if the identification number displayed is for the liquid distillate fuel having the lowest flash point.

(6) On nurse tanks meeting the provisions of § 173.315(m) of this subchapter.

(7) On multi-unit tank car tanks prior to July 1, 1983.

(8) On orange panels or placards prior to November 1, 1981.

22. (29.) Section 172.338 is revised to read as follows:

§ 172.338 Replacement of identification numbers.

If more than one of the identification number markings on the placards or orange panels that are required to be displayed are lost or destroyed during transportation, the carrier shall replace all the missing identification number(s) as soon as practicable. However, in such a case, the numerals may be entered legibly by hand using an indelible marking material. This section does preclude required compliance with the placarding requirements of this subchapter.

23. (30.) In § 172.400 paragraph (a) is revised by the addition of the words "or § 172.102 (when authorized)" following § 172.101 in the penultimate line;

paragraph (b)(8) is revised to read as follows:

§ 172.400 General labeling requirements.

(b) * * *

(8) Package containing a material classed as ORM-A, B, C, D, or E if that package does not contain any other material classed as a hazardous material that requires labeling.

24. (32.) In § 172.407 the introductory sentence of paragraph (g), subparagraph (g)(1) and paragraph (h), are revised; and paragraph (j) is added to read as follows:

§ 172.407 Label specifications.

(g) A label may contain the UN and IMCO hazard class number and, when appropriate, the division number. The number must be—

(1) Black unless it is on a CORROSIVE label when it must be white, or unless other colors are authorized by this Part.

(h) For import shipments only, a label conforming to the requirements of IMCO or the United Nations Recommendations affixed to a package in another country may contain inscriptions required by the country or origin.

(j) EXPLOSIVE A, EXPLOSIVE B, and EXPLOSIVE C labels may bear inscriptions in addition to those prescribed in this subpart, if required for import or export purposes.

25. In § 172.415 the second sentence of paragraph (b) is revised to read as follows:

§ 172.415 NON-FLAMMABLE GAS label.

(b) * * *. The symbol and inscription must be black or white. The solid line border and, if used, the hazard class number must be the color of the symbol.

26. In § 172.417 the second sentence of paragraph (b) is revised to read as follows:

§ 172.417 FLAMMABLE GAS label.

(b) * * *. The symbol and inscription must be black or white. The solid line border and, if used, the hazard class number must be the color of the symbol.

27. In § 172.419 the last sentence of paragraph (b) is revised to read as follows:

§ 172.419 FLAMMABLE LIQUID label.

(b) * * *. The symbol and inscription must be black or white. The solid line border and, if used, the hazard class number must be the color of the symbol.

28. In § 172.423 the last sentence of paragraph (b) is revised to read as follows:

§ 172.423 DANGEROUS WHEN WET label.

(b) * * *. The symbol and inscription must be black or white. The solid line border and, if used, the hazardous class number must be the color of the symbol.

29. In § 172.500 paragraph (b)(2) is revised to read as follows:

§ 172.500 Applicability of placarding requirements.

(2) Hazardous materials classed as ORM-A, B, C, D, or E, or

29a. In § 172.516 paragraph (c)(5) is revised to read as follows:

§ 172.516 Visibility and display of placards.

(5) Have the words or identification number (when authorized) printed on it displayed horizontally, reading from left to right.

30. (35.) In § 172.519 paragraph (d) is revised to read as follows:

§ 172.519 General specifications for placards.

(d) The hazard class and division number prescribed for dangerous goods in the UN Recommendations titled "Transport of Dangerous Goods" may be entered in the lower corner of the diamond on each placard. If a placard is used to display identification numbers as authorized by § 172.332, the class number must be entered in a numeral approximately 1¼ inches (45 mm.) in height (numeral height may be between 1½ inches (41 mm.) and 1¾ inches (45 mm.)). It must be black on each placard except when on a NON-FLAMMABLE GAS, FLAMMABLE GAS, FLAMMABLE, COMBUSTIBLE or CORROSIVE placard. The class number on a NON-FLAMMABLE GAS, FLAMMABLE GAS, FLAMMABLE and COMBUSTIBLE placard may be white or black. The class number on a CORROSIVE placard must be white.

and on a COMBUSTIBLE placard with a white bottom as prescribed by § 172.332(c)(4), the class number must be red or black.

PART 173—SHIPPERS—GENERAL REQUIREMENTS FOR SHIPMENTS AND PACKAGINGS

31. In § 173.8 paragraph (a) is revised by changing the first line to read as follows:

§ 173.8 Canadian shipments and packagings.

(a) Except for hazardous wastes and hazardous substances, shipments of hazardous materials * * *

31a. (37.) In § 173.21 paragraph (b)(3) is added to read as follows:

§ 173.21 Forbidden materials and packages.

(b) * * *
 (3) For organic peroxides, the decomposition temperature of 130°F. (54.4°C) does not apply if the controlled temperature requirements specified in Chapter 11 of the UN Recommendations are applied to determine when refrigeration is required.

32. (39.) In § 173.29 paragraph (a)(1) and (a)(3)(ii) are revised; and paragraph (d) is added to read as follows:

§ 173.29 Empty packagings, portable tanks, cargo tanks, and tanks cars.

(a) Except as otherwise provided in this section, a packaging having a capacity of 110 gallons or less that previously contained a hazardous material may not be offered for transportation unless offered in the same manner as required when it previously contained a greater quantity of hazardous material.

(1) This paragraph does not apply to—
 (i) A packaging that has been cleaned and purged of all residue, or
 (ii) A packaging filled with a material that is not subject to this subchapter.

(3) * * *
 (ii) Is not subject to the shipping paper requirements of this subchapter when collected and transported by a contract or private carrier for reconditioning or reuse.

(d) An empty packaging bearing a label or marking that is described in this subchapter and that pertains to the identification of a hazardous material may not be offered for transportation, unless the packaging contains some of the hazardous material that previously

required display of the label or marking. This prohibition does not apply to transportation in a transport vehicle or freight container if such a packaging is not visible during transportation and the packaging is loaded by the shipper and unloaded by the shipper or consignee.

33. (41.) In § 173.118a paragraph (b) is revised to read as follows:

§ 173.118a Exceptions for combustible liquids.

(b) A combustible liquid that is a hazardous substance or a hazardous waste in a packaging having a rated capacity of 110 gallons or less, and a combustible liquid in a portable tank, cargo tank or tank car is not subject to the requirements of this subchapter except those pertaining to:

(1) Shipping papers, waybills, switching orders, and hazardous waste manifests;

(2) Marking of portable tanks and marking of packages having a rated capacity of 110 gallons or less that contain hazardous substances or hazardous wastes;

(3) Display of identification numbers on portable tanks, cargo tanks, tank cars and multi-unit tank car tanks;

(4) Placarding of portable tanks, cargo tanks and tank cars;

(5) Carriage aboard aircraft and vessels; and

(6) Reporting incidents as prescribed by §§ 171.15, 171.16 and 171.17 of this subchapter.

33a. In § 173.245 paragraph (b) is revised to read as follows:

§ 173.245 Corrosive liquids not specifically provided for.

(b) Except when transportation by aircraft or vessel is involved and except for a hazardous waste or a hazardous substance, a material classed as a corrosive material that is corrosive only to steel and does not meet the definition of any other hazard class defined in this subchapter, is excepted from the requirements of this subchapter for rail or highway when transported in a portable tank, cargo tank, or tank car constructed of materials that will not react dangerously with or be degraded by the material being transported.

34. (47.) In § 173.364 the sentence within parentheses at the end of paragraph (a) is revised to read as follows:

§ 173.364 Limited quantities of Poison B solids.

(a) * * *. (In addition, these shipments are not subject to Subpart F of Part 172 of this subchapter, to Part 174 of this subchapter except § 174.24 and

§ 174.680, or to Part 177 of this subchapter except § 177.817 and § 177.841(e).
 * * * * *

35. (49.) In § 173.500 the Note following paragraph (a) is revised to read as follows:

§ 173.500 Definitions.

(a) * * *
 Note.—There is no change in the applicability of Subparts K, L, and M of this Part for materials classed as ORM-A, B, or C when they are hazardous substances or hazardous wastes (see § 172.101(g)(1)).
 * * * * *

PART 174—CARRIAGE BY RAIL

36. (55.) In § 174.25 the Explosives C entry in the Table in paragraph (a)(2) is revised; paragraphs (b) and (c) are revised to read as follows:

§ 174.25 Additional information on waybills, switching orders and other billings.

(a) * * *
 (2) * * *

Hazardous material or class	Placard notation	Placard endorsement
Explosives, Class C.	Placarded DANGEROUS.	Do.

(b) * * *
 (1) The shipping description consisting of—

(i) The proper shipping name specified for the material in § 172.101 or § 172.102 (when authorized) of this subchapter;

(ii) The hazardous class specified for the material in the same Table;

(iii) The identification number (preceded by "UN" or "NA" as appropriate) prescribed for the material in the same Table; and

(iv) The total quantity (by weight, volume, or as otherwise appropriate) of the hazardous material covered by the description.

(2) Except when a certified bill of lading is tendered to the carrier, the shipper's certification and signature specified in § 172.204 of this subchapter.

(3) The placard notation specified in the Table in § 174.25(a).

(4) For any entry for a material that is a hazardous substance, the letters "RQ" entered either before or after the basic description.

(c) For an empty tank car that previously contained a hazardous material, other than combustible liquid, or unless the tank car has been reloaded with a material not subject to this subchapter, or has been sufficiently

cleaned of residue and purged of vapor to remove any potential hazard, the billing must show the word(s) "EMPTY" or "EMPTY: Last Contained" followed by the basic description of the hazardous material last contained in the tank car, and the word, "Placarded." For example, "EMPTY: Sulfuric acid, Corrosive material, UN1830, Placarded:" or "EMPTY: Last Contained Sulfuric acid, Corrosive material, UN1830, Placarded".

PART 175—CARRIAGE BY AIRCRAFT

37. In § 175.45 paragraph (d) is added to read as follows:

§ 175.45 Reporting hazardous materials incidents.

(d) Each operator who accepts for transportation or transport a hazardous substance shall comply with the reporting requirements of § 171.17 of this subchapter.

PART 177—CARRIAGE BY PUBLIC HIGHWAY

38. In § 177.817 paragraph (b) is revised to read as follows:

§ 177.817 Shipping papers.

(b) *Shipper certification.* An initial carrier may not accept a hazardous material offered for transportation unless the shipping paper describing the material includes a shipper's certification which meets the requirements in § 172.204 of this subchapter. Except for a hazardous waste, the certification is not required for shipments to be transported entirely by private carriage and for bulk shipments to be transported in a cargo tank supplied by the carrier.

(49 U.S.C. 1803, 1804, 1808; 49 CFR 1.53 Appendix A to Part 1)

Note.—The Materials Transportation Bureau has determined that this document will not result in a major economic impact under the terms of Executive Order 12221 and DOT implementing procedures (44 FR 11084) nor require an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321 et seq.). Modification is not necessary to the previously prepared regulatory evaluation and environmental assessment which are available for review in the docket.

Issued in Washington, D.C., on October 24, 1980.

L. D. Santman,

Director, Materials Transportation Bureau.

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