

DEPARTMENT OF TRANSPORTATION

Research and Special Programs
Administration49 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 PeroxidesAGENCY: 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.

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Washington, D.C. 20590. Office hoursare 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 43761) 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 paperrequirements (OMB approval No. 004-
R5750).Display of Identification Numbers;
Docket HM-126AThe 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 or 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 34560). 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 of 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)(3) 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. 172-50. 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 172.338. 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 34560) 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 34560) 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	NA2797	UN2797
Allethrin	NA2902	NA2902
Ammonium nitrate (no organic coating)	NA1942	UN1942
Ammonium nitrate, solution	NA2426	UN2426
Benzaldehyde	UN1969	NA1969
Calcium, metal	NA1401	UN1401
Cresol	NA2076	UN2076
Crude oil, petroleum (2 eninee)	NA1963	UN1267
Cyanide solution, n.o.s.	NA1586	UN1935
Ethyl phosphonous dichloride anhydrous	NA1780	NA2645
Formic acid, solution	NA1779	UN1779
Gasoline	NA1257	UN1203
Hydrogen fluoride	NA1790	UN1052
Hypochlorite solution (classified as corrosive material)	NA1791	UN1791
Lithium metal in cartridges	NA1415	UN1415
Liquefied nonflammable gas	NA1956	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 Chloroform)	NA1581	UN1062
Methyl butane	NA2480	UN2480
Methyl phosphorous dichloride	NA1780	NA2645
Mine rescue equipment containing carbon dioxide	NA1695	NA1956
Monochloroacetone, stabilized or inhibited	NA1695	UN1695
Mortar stain, liquid (2 eninee)	NA1963	UN1263
Nitrating acid, aprot.	NA1796	NA1826
Nitrochlorobenzene (2 eninee)	NA1578	UN1578
Nitrohydrochloric acid, diluted	NA1796	UN1796
Nitrostarch, wet with not less than 30 percent alcohol or solvent	NA1993	UN1337
Organic peroxide, solid, n.o.s.	NA9187	NA9187
Oxygen	NA1072	UN1072
Oxygen, pressurized liquid	NA1073	UN1073
Poisonous liquid, n.o.s. or Poison B, liquid, n.o.s.	NA2610	UN2610
Poisonous liquid or gas, n.o.s.	NA9035	NA1955
Poisonous solid, n.o.s. or Poison B, solid, n.o.s.	NA2611	UN2611
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	NA1423	UN1423
Self-lighting cigarette	NA1325	UN1867
Sodium fluoride, solution	NA1890	UN1890
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-1000/454)	(RQ-1000/454)
Allyl alcohol	(RQ-100/45.5)	(RQ-100/45.4)
Phosphorous pentasulfide	(RQ-1000/454)	(RQ-100/45.4)

Entry	Present	Change
Uranyl nitrate, hexahydrate, solution		(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 sulfite, 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. Benzolic 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
16. 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 storage 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 10/4.5A*)" the "E" in Column 1 is deleted and (*RQ 10/4.5A*) 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.

BILLING CODE 4910-60-M

§172.101 Hazardous Materials Table

1

(1) +/ E/ A/ W	(2) Hazardous materials descriptions and proper shipping names	(3) Hazard class	(4A) Identifi- cation number	(4) Labels required (if not excepted)	(5) Packaging		(6) Maximum net quantity in one package		(7) Water shipments			
					(a) Exceptions	(b) Specific require- ments	(a) Passenger carrying aircraft or railer	(b) Cargo only aircraft	(a) Cargo vessel	(b) Pas- senger vessel	(c) Other requirements	
	*** ADDITIONS ***											
EA	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-1/0.45f)	Poison B	NA2788	Poison	173 345	173 346	1/2 pint	1 quart	1.2	5		
E	Carbofuran mixture, liquid (RQ-10/4.5f)	Poison B	NA2757	Poison	173 345	173 346	1 quart	55 gallons	1.2	1.2		
E	Coumaphos mixture, liquid (RQ-10/4.5f)	Poison B	NA2783	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	Dichlorovos mixture, dry (RQ-10/4.5f) Diethylzinc. See Pyrophoric liquid, n.o.s.	Poison B	NA2788	Poison	173 364	173 365	50 pounds	200 pounds	1.2	1.2		
E	Dinitrotoluene, solid (RQ-1000/45f)	ORM-E	UN2088	None	None	173 510	No limit	No limit	1.2	1.2		
E	Disulfoton mixture, dry (RQ-1/0.45f)	Poison B	NA2788	Poison	173 377	173 377	Forbidden	200 pounds	1.2	4		
E	Disulfoton mixture, liquid (RQ-1/0.45f)	Poison B	NA2788	Poison	173 350	173 350	1/2 pint	1 quart	1.2	5		
E	Endosulfan mixture, liquid (RQ-1/0.45f)	Poison B	NA2761	Poison	173 345	173 346	1 quart	55 gallons	1.2	1.2		
E	Eadrin mixture, liquid (RQ-1/0.45f)	Poison B	NA2761	Poison	173 345	173 346	1 quart	55 gallons	1.2	1.2		
E	Ethion mixture, dry (RQ-10/4.5f)	Poison B	NA2788	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.											
E	Lead sulfate (RQ-5000/2270)	ORM-E	NA2281	None	None	173 510	No limit	No limit	1.2	1.2		
E	Mevinphos mixture, dry (RQ-1/0.45f)	Poison B	NA2788	Poison	173 377	173 377	Forbidden	200 pounds	1.2	4		
E	Mevinphos mixture, liquid (RQ-1/0.45f)	Poison B	NA2788	Poison	173 350	173 350	1/2 pint	1 quart	1.2	5		
E	Sodium hydrogen sulfite, solution (RQ-5000/2270)	Corrosive material	NA3603	Corrosive	173 344	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	173 344	173 245b	25 pounds	100 pounds	1.2	1.2		
	Sulfur chloride (di)	Corrosive material	UN1828	Corrosive	None	173 247	Forbidden	1 gallon	1	1	Keep dry. Glass carboys not permitted on passenger vessels.	
	*** DELETIONS ***											
E	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:

BILLING CODE 4910-60-M

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)	(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 0001 ...	102	Alarm devices, explosive	UN 0118	102	Hexolite	UN 0242	102	Charges, propelling, for cannon
UN 0004 ...	102	Ammonium picrate	UN 0121	102	Igniters	UN 0243	102	Ammunition, incendiary, white phosphorus
UN 0005 ...	102	Cartridges for weapons	UN 0124	102	Jet perforating guns, charged	UN 0244	102	Ammunition, incendiary white phosphorus
UN 0006 ...	102	Cartridges for weapons	UN 0129	102	Lead azide	UN 0245	102	Ammunition, smoke, white phosphorus
UN 0007 ...	102	Cartridges for weapons	UN 0130	102	Lead styphnate	UN 0246	102	Ammunition, smoke, white phosphorus
UN 0009 ...	102	Ammunition, incendiary	UN 0131	102	Lighters, fuse	UN 0247	102	Ammunition, incendiary
UN 0010 ...	102	Ammunition, incendiary	UN 0132	102	Deliquescent metal salts of aromatic nitro-derivatives n.o.s.	UN 0248	102	Contrivances, water-activated
UN 0012 ...	102	Cartridges for weapons	UN 0133	102	Mannitol hexanitrate	UN 0249	102	Contrivances, water-activated
UN 0014 ...	102	Cartridges for weapons, blank	UN 0135	102	Mercury fulminate	UN 0250	102	Rocket motors
UN 0015 ...	102	Ammunition, smoke	UN 0136	102	Mines	UN 0254	102	Ammunition, illuminating
UN 0016 ...	102	Ammunition, smoke	UN 0137	102	Mines	UN 0255	102	Blasting caps, electric
UN 0018 ...	102	Ammunition, tear producing	UN 0138	102	Mines	UN 0257	102	Fuzes, detonating
UN 0019 ...	102	Ammunition, tear producing	UN 0143	102	Nitroglycerine, desensitized	UN 0266	102	Octolite
UN 0020 ...	102	Ammunition, toxic	UN 0144	102	Nitroglycerine, spirit of	UN 0267	102	Blasting caps, non-electric
UN 0021 ...	102	Ammunition, toxic	UN 0146	102	Nitrostarch	UN 0268	102	Boosters, with detonator
UN 0022 ...	102	Amoroses	UN 0147	102	Nitro urea	UN 0268	102	Ganes, with detonator
UN 0027 ...	102	Black powder	UN 0150	102	Pentarythrite tetranitrate	UN 0271	102	Charges, propelling, for rocket motors
UN 0028 ...	102	Black powder, compressed	UN 0151	102	Percolite	UN 0272	102	Charges, propelling, for rocket motors
UN 0029 ...	102	Blasting caps, non-electric	UN 0153	102	Trinitro-aniline	UN 0273	102	Charges, propelling, for rocket motors
UN 0030 ...	102	Blasting caps, electric	UN 0154	102	Trinitrophenol	UN 0274	102	Charges, propelling, for rocket motors
UN 0033 ...	102	Bombs	UN 0155	102	Trinitrochlorobenzene	UN 0275	102	Cartridges, power device
UN 0034 ...	102	Bombs	UN 0156	102	Potassium salts of nitro-aromatic derivatives	UN 0276	102	Cartridges, power device
UN 0035 ...	102	Bombs	UN 0159	102	Powder paste	UN 0277	102	Cartridges, oil well
UN 0037 ...	102	Bombs, photo-flash	UN 0160	102	Powder smokeless	UN 0278	102	Cartridges, oil well
UN 0038 ...	102	Bombs, photo-flash	UN 0161	102	Powder smokeless	UN 0279	102	Charges, propelling, for cannon
UN 0039 ...	102	Bombs, photo-flash	UN 0167	102	Projectiles	UN 0280	102	Rocket motors
UN 0042 ...	102	Boosters	UN 0168	102	Projectiles	UN 0281	102	Rocket motors
UN 0042 ...	102	Ganes, without detonator	UN 0168	102	Projectiles	UN 0282	102	Rocket motors
UN 0043 ...	102	Bursters	UN 0169	102	Projectiles	UN 0283	102	Boosters
UN 0044 ...	102	Caps, percussion	UN 0171	102	Ammunition illuminating	UN 0283	102	Ganes, without detonator
UN 0044 ...	102	Primers, cap type	UN 0173	102	Release devices, explosive	UN 0284	102	Grenades
UN 0048 ...	102	Charges, demolition	UN 0174	102	Ravets, explosive	UN 0285	102	Grenades
UN 0049 ...	102	Cartridges, flash	UN 0180	102	Rockets	UN 0286	102	Warheads, rocket
UN 0050 ...	102	Cartridges, flash	UN 0181	102	Rockets	UN 0287	102	Warheads, rocket
UN 0054 ...	102	Cartridges, signal	UN 0182	102	Rockets	UN 0288	102	Charges, shaped, flexible linear
UN 0055 ...	102	Cases, cartridges, empty with primer	UN 0183	102	Rockets	UN 0289	102	Cord, detonating
UN 0056 ...	102	Charges, depth	UN 0185	102	Rocket motors	UN 0290	102	Cord, detonating
UN 0059 ...	102	Charges, shaped	UN 0190	102	Samplers, explosive substance	UN 0291	102	Bombs
UN 0060 ...	102	Charges, supplementary, explosive	UN 0191	102	Signal devices, hand	UN 0292	102	Grenades
UN 0065 ...	102	Cord, detonating	UN 0192	102	Signals railway track, explosive	UN 0294	102	Mines
UN 0066 ...	102	Cord, igniter	UN 0193	102	Signals railway track, explosive	UN 0295	102	Rockets
UN 0070 ...	102	Cutters, cable, explosive	UN 0194	102	Signals, depth	UN 0296	102	Sounding devices, explosive
UN 0072 ...	102	Cyclotrimethylenetrinitramine	UN 0195	102	Signals, shaped	UN 0297	102	Squibs
UN 0073 ...	102	Detonators for ammunition	UN 0196	102	Signals, smoke	UN 0298	102	Tetranitro-aniline
UN 0074 ...	102	Diazodinitrophenol	UN 0197	102	Signals, smoke	UN 0299	102	Trinitrophenol
UN 0075 ...	102	Diethyleneglycol dinitrate	UN 0203	102	Sodium salts of nitro-aromatic derivatives	UN 0300	102	Trinitrochlorobenzene
UN 0076 ...	102	Dinitrophenol	UN 0204	102	Sounding devices, explosive	UN 0301	102	Trinitrobenzene
UN 0077 ...	102	Dinitrophenates	UN 0206	102	Squibs	UN 0303	102	Trinitrobenzoc acid
UN 0078 ...	102	Dinitroresorcinol	UN 0207	102	Tetranitro-aniline	UN 0306	102	Trinitrophenol
UN 0079 ...	102	Hexanitrodiphenylamine	UN 0208	102	Trinitrophenylmethylnitramine	UN 0312	102	Cartridges, signal
UN 0081 ...	102	Explosives, blasting, Type A	UN 0209	102	Trinitrophenol	UN 0313	102	Signals, smoke
UN 0082 ...	102	Explosives, blasting, Type B	UN 0212	102	Tracers for ammunition	UN 0314	102	Igniters
UN 0083 ...	102	Explosives, blasting, Type C	UN 0213	102	Trinitrobenzoc acid	UN 0315	102	Igniters
UN 0084 ...	102	Explosives, blasting, Type D	UN 0214	102	Trinitrobenzene	UN 0316	102	Fuzes, igniting
UN 0092 ...	102	Flares, surface	UN 0215	102	Trinitrobenzoc acid	UN 0317	102	Fuzes, igniting
UN 0093 ...	102	Flares, aerial	UN 0216	102	Trinitrophenol	UN 0318	102	Grenades, practice
UN 0094 ...	102	Photo-flash powder	UN 0217	102	Trinitrophenol	UN 0319	102	Primers, tubular
UN 0096 ...	102	Photo-flash powder	UN 0218	102	Trinitrophenol	UN 0320	102	Primers, tubular
UN 0099 ...	102	Fracturing devices, explosive	UN 0219	102	Trinitroresorcinol	UN 0321	102	Cartridges for weapons
UN 0101 ...	102	Fuse, instantaneous, non-detonating	UN 0220	102	Urea nitrate	UN 0322	102	Rocket motors
UN 0102 ...	102	Cord, detonating	UN 0221	102	Warheads, torpedo	UN 0323	102	Cartridges, power device
UN 0103 ...	102	Fuse, igniter	UN 0222	102	Ammonium nitrate fertilizers	UN 0324	102	Projectiles
UN 0104 ...	102	Cord, detonating, mild effect	UN 0223	102	Ammonium nitrate fertilizers	UN 0325	102	Igniters
UN 0105 ...	102	Fuse, safety	UN 0224	102	Barium azide	UN 0326	102	Cartridges for weapons, blank
UN 0106 ...	102	Fuzes, detonating	UN 0225	102	Boosters, with detonator	UN 0327	102	Cartridges for weapons, blank
UN 0107 ...	102	Fuzes, detonating	UN 0225	102	Ganes, with detonator	UN 0328	102	Cartridges for weapons, with inert projectile
UN 0110 ...	102	Grenades, practice	UN 0226	102	Cyclotrimethylenetrinitramine			
UN 0113 ...	102	Guanyl nitrosamino guanylidene hydrazine	UN 0226	102	Sodium dinitro-o-cresolate			
UN 0114 ...	102	Guanyl nitrosamino guanyl tetrazene	UN 0234	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)	(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 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...	101	Acrolein
UN 0338...	102	Cartridges for weapons, blank	UN 1022...	101	Monochlorotrifluoromethane	UN 1092...	102	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 1098...	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	Aluminium triethyl
UN 0347...	102	Projectiles	UN 1031...	102	Difluoromonochloroethane	UN 1103...	102	Aluminium 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 amyl 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 1118...	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 o.i
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	UN 1133...	102	Cement, adhesive
UN 0387...	102	Trinitrofluorenone	UN 1064...	101	Methyl mercaptan	NA 1133...	101	Cement, container, linoleum, tile, or wallboard, liquid
UN 0388...	102	Trinitrotoluene	UN 1064...	102	Methylmercaptan	NA 1133...	101	Cement, leather
UN 0389...	102	Trinitrotoluene	UN 1065...	101	Neon	NA 1133...	101	Cement, liquid, n.o.s.
UN 0390...	102	Tritonal	UN 1066...	101	Nitrogen	NA 1133...	101	Cement, pyroxylin
UN 0391...	102	Cyclotrimethylenetrinitramine mixed with cyclotetramethylenetetranitramine	UN 1067...	102	Nitrogen dioxide	NA 1133...	101	Cement, roofing, liquid
UN 0392...	102	Hexanitrostilbene	UN 1067...	101	Nitrogen dioxide, liquid	UN 1134...	101	Cement, rubber
UN 0393...	102	Hexatol, cast	NA 1067...	101	Nitrogen peroxide, liquid	UN 1134...	102	Chlorobenzene
UN 0394...	102	Trinitroresorcinol	UN 1069...	101	Nitrogen tetroxide, liquid	UN 1135...	101	2-Chloroethanol
UN 1001...	101	Acetylene	UN 1070...	101	Nitrosyl chloride	UN 1135...	101	Ethylene chlorohydrin
UN 1002...	102	Air	UN 1071...	102	Nitrous oxide	UN 1136...	101	Coal tar distillate
UN 1002...	101	Air, compressed	UN 1072...	101	Oil gas	NA 1136...	101	Coal tar light oil
UN 1003...	102	Air	UN 1073...	102	Oxygen	NA 1136...	101	Coal tar oil
UN 1005...	102	Ammonia	UN 1073...	101	Oxygen, pressurized liquid	UN 1137...	101	Coal tar distillate
UN 1005...	101	Ammonia, anhydrous	UN 1075...	101	Liquefied petroleum gas	NA 1137...	101	Coal tar light oil
UN 1006...	101	Argon	UN 1075...	102	Petroleum gases	NA 1137...	101	Coal tar oil
UN 1008...	101	Boron trifluoride	UN 1076...	101	Phosgene	UN 1139...	101	Coating solution
UN 1009...	102	Bromotrifluoromethane	UN 1077...	102	Propylene	NA 1142...	101	Antifreeze compound, liquid
UN 1009...	101	Monobromotrifluoromethane	UN 1078...	102	Refrigerant gases, n.o.s.	NA 1142...	101	Antifreeze preparation, liquid
UN 1010...	102	Butadiene	UN 1079...	101	Sulfur dioxide	NA 1142...	101	Compound, lacquer, paint, or varnish, removing, reducing, or thinning, liquid
UN 1010...	101	Butadiene, inhibited	UN 1079...	102	Sulphur dioxide	NA 1142...	101	Compound, polishing, liquid
UN 1011...	102	Butane	UN 1080...	101	Sulfur hexafluoride	NA 1142...	101	Compound, vulcanizing, liquid
UN 1012...	102	Butylene	UN 1080...	102	Sulphur hexafluoride	UN 1142...	102	Dressing, leather
UN 1013...	102	Carbon dioxide	UN 1081...	102	Tetrafluoroethylene	UN 1142...	101	Flammable liquid preparation, n.o.s.
UN 1014...	102	Carbon dioxide and oxygen	UN 1081...	101	Tetrafluoroethylene, inhibited	NA 1142...	102	Leather bleach or dressing
UN 1014...	101	Carbon dioxide-oxygen mixture	UN 1082...	101	Trifluoroethylene	NA 1142...	101	Polish, metal, stove, furniture or wood, liquid
UN 1015...	102	Carbon dioxide and nitrous oxide	UN 1082...	102	Trifluoroethylene	NA 1142...	101	Rust preventive coating
UN 1015...	101	Carbon dioxide-nitrous oxide mixture	UN 1083...	102	Trimethylamine	UN 1143...	101	Crotonaldehyde
			UN 1083...	101	Trimethylamine, anhydrous	UN 1144...	101	Crotonylene

(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 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	Decahydronaphthalene	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	Diethyl ethers	UN 1216	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	Rosin oil
UN 1152	102	Dichloropentanes	UN 1220	101	Isopropyl acetate	UN 1287	102	Rubber solution
UN 1153	102	1,2-Dithioethane	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 succate
UN 1155	101	Ethyl ether	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	Lights	UN 1295	101	Trichloroethane
UN 1159	101	Diisopropyl ether	NA 1228	101	Mercaptan mixture, aliphatic	UN 1295	101	Trimethylamine
UN 1160	102	Dimethylamine	UN 1228	102	Mercaptans and mercaptan mixtures	UN 1297	102	Trimethylamine
UN 1160	101	Dimethylamine, aqueous solution	UN 1229	101	Mesityl 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	Dwinyl ether	UN 1235	101	Methylamine, aqueous solution	UN 1305	101	Vinyl trichlorosilane
UN 1168	102	Dners	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	Borneol
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	Dinitroresorcinols
UN 1177	101	Ethyl butyl acetate	UN 1250	101	Methyltrichlorosilane	UN 1323	102	Ferrocenium
UN 1178	102	2-Ethylbutyraldehyde	UN 1251	102	Methyl vinyl ketone	NA 1324	101	Film
UN 1178	101	Ethyl butyraldehyde	UN 1251	101	Methyl vinyl ketone, inhibited	UN 1324	102	Film, motion picture
UN 1179	101	Ethyl butyl ether	UN 1255	102	Naphtha, petroleum	NA 1325	101	Antimony sulfide, solid
UN 1180	101	Ethyl butyrate	UN 1255	101	Petroleum naphtha	NA 1325	101	Burnt cotton, not repacked
UN 1181	101	Ethyl chloroacetate	UN 1256	101	Naphtha, solvent	NA 1325	101	Cosmetics, n.o.s.
UN 1182	101	Ethyl chloroformate	UN 1257	102	Caengheed gasoline	NA 1325	101	Drugs, n.o.s.
UN 1183	101	Ethyl dichlorosilane	UN 1259	101	Nickel carbonyl	UN 1325	101	Flammable solid, n.o.s.
UN 1183	102	Ethyldichlorosilane	UN 1261	101	Nitromethane	UN 1325	102	Flammable solids, n.o.s.
UN 1184	101	Ethylene dichloride	UN 1262	101	Isocitane	NA 1325	101	Fusee
UN 1185	102	Ethyleneimine	UN 1262	101	Oxlane	NA 1325	101	Garbage tankage
UN 1185	101	Ethylene imine, inhibited	NA 1263	101	Compound, enamel	NA 1325	101	N-Methyl-N'-nitro-N-nitrosoguanidine
UN 1188	101	Ethylene glycol monomethyl ether	UN 1263	101	Lacquer base or Lacquer chps. plastic	NA 1325	101	Paper stock, wet
UN 1188	101	Ethylene glycol monomethyl ether acetate	UN 1263	101	Mortar stain, liquid	NA 1325	101	Rags, wet
UN 1190	101	Ethyl formate	UN 1263	101	Paint, enamel, lacquer, stain, shellac, varnish, Aluminum, Bronze, Gold, Wood filler, liquid or Lacquer base, liquid	NA 1325	101	Rough ammonate tankage
UN 1191	102	Ethyl hexaldehyde	UN 1263	101	Paint, enamel, lacquer, stain, shellac, varnish, polish, filler (liquid), lacquer base or thinner	NA 1325	101	Smokeless powder for small arms
UN 1191	101	Ethylhexaldehyde	UN 1264	101	Paraldehyde	NA 1325	101	Tankage fertilizer
UN 1192	101	Ethyl isoclate	UN 1265	101	Isopentane	NA 1325	101	Tankage, rough ammonate
UN 1193	101	Ethyl methyl ketone	UN 1265	101	Pentane	NA 1325	101	Waste paper, wet
UN 1193	101	Methyl ethyl ketone	UN 1266	102	Perkumery products	(UN 1325)	102	Zirconium
UN 1194	102	Ethyl nitrite	UN 1267	101	Crude oil, petroleum	UN 1326	102	Hafnium metal powder, wet
UN 1194	101	Ethyl nitrite (nitrous ether)	UN 1267	102	Petroleum crude oil	UN 1326	101	Hafnium metal, wet
UN 1195	101	Ethyl propionate	NA 1268	101	Naphtha distillate	UN 1327	102	Bhusa
UN 1196	101	Ethyl trichlorosilane	UN 1268	101	Petroleum distillate	UN 1327	101	Hay
UN 1196	102	Ethytrichlorosilane	UN 1267	102	Petroleum distillates, n.o.s.	UN 1327	101	Hay or straw
UN 1197	101	Extract, liquid, flavoring	UN 1270	102	Road oil	UN 1327	102	Straw
UN 1197	102	Extracts	UN 1270	101	Oil	UN 1328	102	Hexamine
UN 1198	102	Formaldehyde	UN 1271	101	Petroleum of	UN 1330	102	Manganese resinate
UN 1198	101	Formaldehyde solution	UN 1271	102	Petroleum ether	UN 1331	102	Matches
UN 1199	101	Furfural	UN 1272	101	Petroleum spirit	UN 1331	101	Matches, strike anywhere
UN 1201	101	Fuel oil	UN 1274	102	Pine oil	UN 1332	102	Metaldehyde
UN 1202	102	Gas oil	UN 1274	101	Propyl alcohol	UN 1333	102	Mischmetal
UN 1203	101	Gasoline	UN 1274	101	Propionamide	UN 1334	102	Naphthalene
NA 1203	101	Motor fuel, n.o.s.	UN 1275	101	Propionamide	UN 1334	101	Naphthalene or Naphthalin
UN 1204	102	Glyceryl trinitrate	UN 1275	102	n-Propyl acetate	UN 1336	102	Nitroguanidine
NA 1204	101	Spirits of nitroglycerin	UN 1276	102	Propyl acetate	UN 1336	101	Nitroguanidine, wet with not less than 20% water
NA 1204	101	Spirits of nitroglycerin, not exceeding 1% nitroglycerin by weight	UN 1276	101	Propyl acetate	UN 1337	102	Nitrotartrich, wet with not less than 20% water
UN 1205	102	Gutta percha	UN 1277	101	Propyl alcohol	UN 1337	101	Nitrotartrich, wet with not less than 30% alcohol or solvent
UN 1206	101	Heptane	UN 1277	102	Propionamide	UN 1338	102	Phosphorus
UN 1207	101	Hexaldehyde	UN 1278	102	n-Propyl acetate	UN 1338	101	Phosphorus, amorphous, red
UN 1208	101	Hexane	UN 1278	101	Propyl acetate			

(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 heptasulphide	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 pentasulphide	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 sesquisulphide	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 trisulphide	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 chlorite
UN 1349 ...	102	Sodium picramate	UN 1393 ...	102	Alloys of alkaline earth metals	UN 1459 ...	101	Chlorate and magnesium chlorite 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 1396 ...	102	Aluminium	UN 1461 ...	102	Chlorates
UN 1352 ...	102	Titanium metal powder, wet	UN 1397 ...	102	Aluminium phosphide	UN 1462 ...	102	Chlorites
UN 1352 ...	101	Titanium metal powder, wet with 20% or more water	UN 1397 ...	101	Aluminium phosphide	NA 1463 ...	101	Chromic acid mixture, dry
UN 1353 ...	102	Toe puffs	UN 1398 ...	102	Aluminium silicon	NA 1463 ...	101	Chromic acid, solid
UN 1354 ...	102	Trinitrobenzene	UN 1399 ...	102	Barium	UN 1463 ...	102	Chromium trioxide
UN 1354 ...	101	Trinitrobenzene, wet	UN 1400 ...	102	Barium	UN 1464 ...	102	Dichromates
UN 1355 ...	102	Trinitrobenzoic acid	UN 1401 ...	102	Calcium	UN 1465 ...	102	Didymium nitrate
UN 1355 ...	101	Trinitrobenzoic acid, wet	NA 1401 ...	101	Calcium, metal, crystalline	UN 1466 ...	101	Ferric nitrate
UN 1356 ...	102	Trinitrotoluene	UN 1402 ...	101	Calcium carbide	UN 1467 ...	101	Guandinio nitrate
UN 1356 ...	101	Trinitrotoluene, wet	UN 1403 ...	102	Calcium cyanamide	UN 1469 ...	101	Lead nitrate
UN 1357 ...	102	Urea nitrate	UN 1403 ...	101	Calcium cyanamide, not hydrated	UN 1470 ...	102	Lead perchlorate
UN 1357 ...	101	Urea nitrate, wet	UN 1404 ...	102	Calcium hydride	UN 1471 ...	101	Lithium hypochlorite
UN 1358 ...	102	Zirconium metal powder, wet	UN 1405 ...	102	Calcium silicide	UN 1471 ...	101	Lithium hypochlorite compound, dry
UN 1358 ...	101	Zirconium metal, wet	UN 1406 ...	102	Calcium silicon	UN 1472 ...	101	Lithium peroxide
UN 1359 ...	102	Bags	UN 1407 ...	102	Caesium	UN 1473 ...	102	Magnesium bromate
UN 1359 ...	101	Bags, sodium nitrate, empty and unwashed	UN 1407 ...	101	Cesium metal	UN 1474 ...	101	Magnesium nitrate
UN 1360 ...	101	Calcium phosphide	UN 1408 ...	101	Ferrosilicon	UN 1475 ...	101	Magnesium perchlorate
UN 1361 ...	102	Carbon, non-activated	UN 1409 ...	102	Hydrides	UN 1476 ...	102	Magnesium peroxide
NA 1361 ...	101	Charcoal briquettes or briquets	UN 1410 ...	102	Lithium aluminium hydride	UN 1476 ...	101	Magnesium peroxide, solid
NA 1361 ...	101	Charcoal screenings, made from 'pinon' wood	UN 1410 ...	101	Lithium aluminium hydride	NA 1477 ...	101	Ammonium sulfato nitrate
NA 1361 ...	101	Charcoal, shell	UN 1411 ...	102	Lithium aluminium hydride, ethereal	NA 1477 ...	101	Nitrate, n.o.s.
NA 1361 ...	101	Charcoal, wood, ground, crushed, granulated, or pulverized	UN 1412 ...	102	Lithium amide	UN 1477 ...	102	Nitrates
NA 1361 ...	101	Charcoal, wood, lump	UN 1412 ...	101	Lithium amide, powdered	UN 1478 ...	102	Sodium nitrate and polish Compound, tree or weed killing, solid
NA 1361 ...	101	Charcoal wood screenings, other than 'pinon' wood screenings	UN 1413 ...	101	Lithium borohydride	NA 1479 ...	101	Cosmetics, n.o.s.
NA 1361 ...	101	Coal, ground bituminous, sea coal, coal facings	UN 1414 ...	101	Lithium hydride	NA 1479 ...	101	Cupric nitrate
UN 1362 ...	102	Carbon, activated	UN 1415 ...	102	Lithium	NA 1479 ...	101	Drugs, n.o.s.
UN 1362 ...	101	Charcoal, activated	UN 1415 ...	101	Lithium metal	NA 1479 ...	101	Manganese dioxide
UN 1363 ...	101	Copra	UN 1417 ...	101	Lithium metal, in cartridges	UN 1479 ...	101	Oxidizer, n.o.s. or Oxidizing material, n.o.s.
UN 1364 ...	102	Cotton waste	UN 1418 ...	102	Lithium silicon	UN 1479 ...	102	Oxidizing substances, n.o.s.
UN 1364 ...	101	Cotton waste, oily	UN 1418 ...	102	Magnesium	NA 1479 ...	101	Potassium dichromate
UN 1365 ...	102	Cotton	UN 1418 ...	102	Magnesium alloys	NA 1479 ...	101	Potassium dichromate
UN 1366 ...	102	Diethylzinc	UN 1419 ...	102	Magnesium aluminium phosphide	UN 1480 ...	102	Perborates
UN 1367 ...	102	Diethylmagnesium	UN 1420 ...	102	Potassium, metal alloys	NA 1481 ...	101	Perchlorate, n.o.s.
UN 1368 ...	102	Dimethylmagnesium	UN 1421 ...	101	Potassium, metal liquid alloy	UN 1481 ...	102	Perchlorates
UN 1369 ...	102	Dimethyl-p-nitrosaniline	NA 1421 ...	101	Alkali metals	NA 1482 ...	101	Permanganate, n.o.s.
UN 1369 ...	102	p-Nitrosodimethylaniline	UN 1422 ...	102	Sodium, metal liquid alloy	UN 1482 ...	102	Permanganates
UN 1370 ...	102	Dimethylzinc	UN 1422 ...	101	Potassium-sodium	UN 1483 ...	102	Peroxides
UN 1371 ...	102	Driers	UN 1422 ...	101	Sodium potassium alloy, liquid	UN 1484 ...	101	Potassium bromate
NA 1372 ...	101	Burnt fiber	UN 1423 ...	102	Sodium potassium alloy, solid	UN 1485 ...	101	Potassium chlorate
NA 1372 ...	101	Fibers	UN 1423 ...	101	Rubidium	UN 1486 ...	101	Potassium nitrate
NA 1372 ...	101	Fibers, burnt	UN 1423 ...	101	Rubidium metal	UN 1487 ...	102	Potassium nitrate and sodium nitrate
UN 1372 ...	102	Fibres	UN 1424 ...	102	Rubidium metal, in cartridges	UN 1487 ...	101	Sodium nitrite mixed with potassium nitrate
NA 1372 ...	101	Hair, wet	UN 1424 ...	102	Sodium amalgam	NA 1487 ...	101	Sodium nitrite mixture
UN 1373 ...	102	Fabric	UN 1425 ...	101	Sodium amide	UN 1488 ...	101	Potassium nitrite
NA 1373 ...	101	Fibers or fabric, containing not more than 5% animal or vegetable oil	UN 1426 ...	102	Sodium borohydride	UN 1489 ...	101	Potassium perchlorate
UN 1373 ...	102	Fibres	UN 1427 ...	101	Sodium hydride	UN 1490 ...	101	Potassium permanganate
UN 1374 ...	102	Fishmeal or fish scrap	UN 1428 ...	102	Sodium	UN 1491 ...	101	Potassium peroxide
NA 1374 ...	101	Fish meal or fish scrap containing less than 6% or more than 12% water	UN 1428 ...	101	Sodium, metal or metallic	UN 1492 ...	102	Potassium persulphate
UN 1375 ...	102	Pyrophoric fuel, n.o.s.	UN 1429 ...	102	Sodium	UN 1493 ...	101	Silver nitrate
UN 1376 ...	101	Iron mass or sponge, spent	UN 1429 ...	101	Sodium, metal dispersion in organic solvent	UN 1494 ...	101	Sodium bromate
UN 1376 ...	102	Iron oxide	UN 1431 ...	102	Sodium methylate	UN 1495 ...	101	Sodium chlorate
UN 1378 ...	102	Nickel catalyst	UN 1431 ...	101	Sodium methylate, dry	UN 1496 ...	101	Sodium chlorite
UN 1378 ...	101	Nickel catalyst, wet	UN 1432 ...	101	Sodium phosphide	UN 1498 ...	101	Sodium nitrate
UN 1379 ...	102	Paper	UN 1433 ...	101	Stannic phosphide	UN 1499 ...	102	Sodium nitrate and potassium nitrate
UN 1380 ...	101	Pentaborane	UN 1433 ...	102	Stannic phosphides	UN 1500 ...	101	Sodium nitrite
UN 1381 ...	102	Phosphorus	UN 1434 ...	102	Strontium	UN 1502 ...	101	Sodium perchlorate
UN 1381 ...	101	Phosphorus, white or yellow, dry	UN 1435 ...	102	Zinc ashes	UN 1503 ...	101	Sodium permanganate
UN 1381 ...	101	Phosphorus, white or yellow, in water	UN 1436 ...	102	Zinc	UN 1504 ...	101	Sodium peroxide
UN 1382 ...	102	Alkaline earth metal amalgams, n.o.s.	UN 1437 ...	101	Zirconium hydride	UN 1505 ...	102	Sodium persulphate
			UN 1438 ...	102	Aluminium nitrate	UN 1506 ...	101	Strontium chlorate
			UN 1438 ...	101	Aluminium nitrate	UN 1506 ...	101	Strontium chlorate, wet
			UN 1439 ...	101	Ammonium dichromate	UN 1507 ...	101	Strontium nitrate
			UN 1442 ...	101	Ammonium perchlorate	UN 1508 ...	102	Strontium perchlorate
			UN 1444 ...	102	Ammonium persulphate	UN 1509 ...	101	Strontium peroxide
			UN 1445 ...	101	Barium chlorate	UN 1510 ...	101	Tetranitromethane
			NA 1445 ...	101	Barium chlorate, wet	UN 1511 ...	102	Urea hydrogen peroxide
			UN 1446 ...	101	Barium nitrate	NA 1511 ...	101	Urea peroxide

(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 1512	101	Zinc ammonium nitrite	NA 1583	101	Chloropom, absorbed	UN 1634	102	Mercury bromides
UN 1513	101	Zinc chlorate	UN 1583	101	Chloropom mixture	UN 1636	101	Mercuric cyanide, solid
UN 1514	101	Zinc nitrate	UN 1583	102	Chloropom mixtures, n.o.s.	UN 1636	102	Mercuric 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	Mercurous gluconate
UN 1517	102	Zirconium picramate	UN 1585	102	Copper acetoarsenite	UN 1638	101	Mercurous iodide, solid
UN 1517	101	Zirconium picramate, wet	UN 1585	101	Copper acetoarsenite solid	UN 1638	101	Mercurous iodide, solution
UN 1541	101	Acetonone 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	Mercurous iodide
UN 1544	102	Alkaloids	UN 1587	101	Copper cyanide	UN 1639	101	Mercuric 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	Mercuric 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	Mercuric 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	Mercuric oxycyanide
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	Mercuric potassium iodide
NA 1549	101	Antimony trifluoride solution	UN 1594	102	Diethyl sulphate	UN 1644	101	Mercuric salicylate solid
UN 1550	102	Antimony lactate	UN 1595	101	Dimethyl sulfate	UN 1644	102	Mercuric salicylate
UN 1550	101	Antimony lactate, solid	UN 1595	102	Dimethyl sulphate	UN 1645	101	Mercuric sulfate, solid
UN 1551	102	Antimony potassium tartrate	UN 1596	102	Dinitroanilines	UN 1645	102	Mercuric sulphate
UN 1551	101	Antimony potassium tartrate solid	UN 1597	102	Dinitrobenzenes	UN 1646	101	Mercuric sulfoarsenate, solid or Mercuric thiocyanate, solid
UN 1553	102	Arsenic acid	UN 1597	101	Dinitrobenzene, solid, or Dinitrobenzol, solid	UN 1646	102	Mercury thiocyanate
UN 1553	101	Arsenic acid solution	UN 1597	101	Dinitrobenzene solution	UN 1647	102	Methyl bromide and ethylene dibromide
UN 1554	102	Arsenic acid	UN 1598	102	4,6-Dinitro-o-cresol	UN 1647	101	Methyl bromide - ethylene dibromide mixture, liquid
UN 1554	101	Arsenic acid, solid	UN 1599	102	Dinitrophenol	NA 1648	101	Acetonitrile
UN 1555	102	Arsenic bromide	UN 1599	101	Dinitrophenol solution	UN 1648	102	Methyl cyanide
UN 1555	101	Arsenic bromide, solid	UN 1600	102	Dinitrotoluenes	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	Dinitrotoluenes	UN 1649	102	Motor fuel antiknock mixtures
UN 1556	102	Arsenic compounds	UN 1601	102	Disinfectant, liquid	NA 1649	101	Tetraethyl lead, liquid
NA 1556	101	Methyldichloroarsine	UN 1601	101	Disinfectant, solid	UN 1650	102	Naphthylamine
NA 1556	101	Phenyldichloroarsine	UN 1601	101	Disinfectant, solid	UN 1651	102	alpha-Naphthylthiourea
UN 1557	101	Arsenical compound, solid, n.o.s. or Arsenical mixture, solid, n.o.s.	UN 1601	102	Disinfectants	UN 1652	102	Naphthylurea
NA 1557	101	Arsenical dip, liquid	UN 1601	101	Disinfectants	UN 1653	102	Nickel cyanide
UN 1557	102	Arsenic compounds	UN 1601	101	Disinfectants, solid	UN 1653	101	Nickel cyanide, solid
NA 1557	101	Arsenic iodide, solid	(UN 1601)	102	Germicides	UN 1654	102	Nicotine
NA 1557	101	Arsenic sulfide, solid	UN 1602	102	Dye intermediates	UN 1654	101	Nicotine, liquid
NA 1557	101	Arsenic trisulfide	UN 1602	102	Ethyl bromosuccinate	UN 1655	102	Nicotine
UN 1558	102	Arsenic, metallic	UN 1604	101	Ethylene dibromide	UN 1655	101	Nicotine hydrochloride
UN 1558	101	Arsenic, solid	UN 1605	101	Ethylene dibromide	UN 1657	101	Nicotine salicylate
UN 1559	102	Arsenic pentoxide	UN 1606	102	Femic arsenate	UN 1658	101	Nicotine sulfate, liquid
UN 1559	101	Arsenic pentoxide, solid	UN 1607	102	Femic arsenate, solid	UN 1658	101	Nicotine sulfate, solid
UN 1560	102	Arsenic trichloride	UN 1607	101	Femic arsenate, solid	UN 1658	102	Nicotine sulphate
UN 1560	101	Arsenic trichloride, liquid	UN 1608	102	Ferrous arsenate	UN 1659	101	Nicotine tartrate
UN 1561	102	Arsenic trioxide	UN 1608	101	Ferrous arsenate, solid	UN 1660	101	Nitric oxide
UN 1561	101	Arsenic trioxide, solid	UN 1608	102	Fungicides	UN 1661	101	Nitroamine
UN 1562	101	Arsenical dust	UN 1610	102	Halogenated irritating liquids n.o.s.	UN 1661	102	Nitroanilines
UN 1564	102	Barium compounds, n.o.s.	UN 1611	102	Hexaethyl tetraphosphate	UN 1662	102	Nitrobenzene
UN 1565	102	Barium cyanide	UN 1611	101	Hexaethyl tetraphosphate, liquid	UN 1662	101	Nitrobenzene, liquid or Nitrobenzol, liquid
UN 1565	101	Barium cyanide, solid	UN 1612	102	Hexaethyl tetraphosphate	UN 1663	101	Nitrophenol
NA 1566	101	Beryllium chloride	UN 1612	101	Hexaethyl tetraphosphate and compressed gas mixture	UN 1663	102	Nitrophenols
UN 1566	101	Beryllium compound, n.o.s.	UN 1613	102	Hydrocyanic acid	UN 1664	101	Nitrotoluene
UN 1566	102	Beryllium compounds	UN 1613	101	Hydrocyanic acid solution	UN 1664	102	Nitrotoluenes
NA 1566	101	Beryllium fluoride	UN 1613	101	Hydrocyanic acid solution, less than 5% hydrocyanic acid	UN 1665	102	Nitroxylenes
UN 1567	102	Beryllium	UN 1614	102	Hydrogen cyanide	NA 1665	101	Nitroxytol
UN 1568	102	Bordeaux arsenites	UN 1615	102	Insecticides, n.o.s.	UN 1668	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	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 arsenate, solid	UN 1622	101	Magnesium arsenate, solid	UN 1677	101	Potassium arsenite, 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 nitrate	UN 1680	101	Potassium cyanide, solid
UN 1578	101	Nitrochlorobenzene, meta or para, solid	UN 1626	101	Mercuric potassium cyanide, solid	UN 1680	102	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	101	Mercurous sulfate, solid	UN 1682	102	Sheep dips
UN 1579	101	4-Chloro-o-toluidine hydrochloride	UN 1628	102	Mercurous sulphate	UN 1683	102	Silver arsenite
UN 1580	102	Chloropicrin	UN 1629	101	Mercurous sulphate	UN 1684	101	Silver cyanide
UN 1580	101	Chloropicrin, liquid	UN 1629	102	Mercuric acetate	UN 1685	101	Sodium arsenate
UN 1581	102	Chloropicrin and methyl bromide	UN 1630	101	Mercuric acetate, solid	UN 1686	102	Sodium arsenite
NA 1581	101	Methyl bromide and more than 2% chloropicrin mixture, liquid	UN 1630	102	Mercury ammonium chloride, solid	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 1633	102	Mercury benzoate	UN 1688	102	Sodium cacodylate
			UN 1634	101	Mercuric bromide, solid			
			UN 1684	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 1769 ...	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
NA 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	Fluorosulfonic acid
UN 1694 ...	102	Bromobenzyl cyanide	UN 1753 ...	101	Chlorophenyltrichlorosilane	UN 1778 ...	102	Fluostillic acid
UN 1695 ...	102	Chloroacetone	UN 1754 ...	101	Chlorosulfonic acid	NA 1778 ...	101	Hydrofluorosilicic 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	Chlorosulfonic acid	UN 1779 ...	101	Formic acid solution
UN 1697 ...	101	Chloroacetophenone, gas, liquid, or solid	UN 1755 ...	102	Chromic acid	UN 1780 ...	101	Fumaryl chloride
UN 1698 ...	101	Diphenylaminechloroarsine	UN 1755 ...	101	Chromic acid solution	UN 1781 ...	102	Hexadecyl trichlorosilane
UN 1699 ...	102	Diphenylchloroarsine	UN 1756 ...	102	Chromic fluoride	UN 1781 ...	101	Hexadecyltrichlorosilane
UN 1700 ...	101	Tear gas candle	UN 1756 ...	101	Chromic fluoride, solid	UN 1782 ...	101	Hexafluorophosphoric acid
UN 1700 ...	102	Tear gas candles	UN 1757 ...	102	Chromic fluoride	UN 1783 ...	102	Hexamethylenediamine
UN 1701 ...	101	Xylyl 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 1759 ...	102	Cleaning compounds	UN 1785 ...	102	Acid mixtures
UN 1703 ...	101	Tetraethyl dithiopyrophosphate and compressed gas mixture	UN 1759 ...	101	Corrosive solid, n.o.s.	UN 1786 ...	101	Hydrofluoric and sulfuric acid mixture
UN 1704 ...	102	Tetraethyl dithiopyrophosphate	(UN 1759)	102	Corrosive solids, n.o.s.	UN 1787 ...	101	Hydroiodic acid
UN 1704 ...	101	Tetraethyl dithiopyrophosphate, liquid	NA 1759 ...	101	Cosmetics, solid, n.o.s.	UN 1788 ...	101	Hydrobromic acid
UN 1704 ...	101	Tetraethyl dithiopyrophosphate mixture, dry	NA 1759 ...	101	Drugs, n.o.s. solid	UN 1788 ...	101	Hydrobromic acid not more than 49% strength
UN 1704 ...	101	Tetraethyl dithiopyrophosphate mixture, liquid	NA 1759 ...	101	Ferrous chloride, solid	NA 1789 ...	101	Compound, cleaning, liquid (containing hydrochloric (muriatic) acid)
UN 1705 ...	102	Tetraethyl pyrophosphate and compressed gas	NA 1760 ...	101	Stannous chloride, solid	UN 1789 ...	101	Hydrochloric acid
UN 1705 ...	101	Tetraethyl pyrophosphate and compressed gas mixture	NA 1760 ...	102	Alkaline corrosive liquids, n.o.s.	NA 1789 ...	101	Hydrochloric acid mixture
UN 1707 ...	102	Thallium compounds	NA 1760 ...	101	Aluminum phosphate solution	UN 1789 ...	101	Hydrochloric acid solution, inhibited
NA 1707 ...	101	Thallium salt, solid, n.o.s.	NA 1760 ...	101	Aluminum sulfate solution	NA 1790 ...	101	Compound, cleaning, liquid (containing hydrofluoric acid)
NA 1707 ...	101	Thallium sulfate, solid	NA 1760 ...	101	2-(2-Aminoethoxy) ethanol	NA 1790 ...	101	Etching acid, liquid, n.o.s.
UN 1708 ...	102	Toluidines	NA 1760 ...	101	Aminopropyl diethanolamine	UN 1790 ...	102	Hydrofluoric acid
UN 1709 ...	102	2,4-Toluylenediamine	NA 1760 ...	101	N-Aminopropylmorpholine	UN 1790 ...	101	Hydrofluoric acid solution
NA 1709 ...	101	Toluenediamine	NA 1760 ...	101	bis (Aminopropyl) piperazine	UN 1791 ...	102	Hypochlorite
UN 1710 ...	101	Trichloroethylene	NA 1760 ...	101	Boiler compound, liquid	UN 1791 ...	101	Hypochlorite solution
UN 1711 ...	102	Xylidines	NA 1760 ...	101	Chemical kit	NA 1791 ...	101	Hypochlorite solution containing not more than 7% available chlorine
UN 1712 ...	101	Zinc arsenate	NA 1760 ...	101	Compound, cleaning, liquid	UN 1792 ...	101	Iodine monochloride
UN 1712 ...	102	Zinc arsenate and arsenite	NA 1760 ...	101	Compound, lacquer, paint, or varnish removing, liquid	UN 1793 ...	102	Isopropyl acid phosphate
UN 1712 ...	101	Zinc arsenite, solid	NA 1760 ...	101	Compound, rust preventing or Compound, rust removing	UN 1793 ...	101	Isopropyl acid phosphate, solid
UN 1713 ...	101	Zinc cyanide	NA 1760 ...	101	Compound, tree or weed killing, liquid	NA 1794 ...	101	Lead dross
UN 1714 ...	101	Zinc phosphide	NA 1760 ...	101	Compound, vulcanizing, liquid	UN 1794 ...	101	Lead sulfate, solid
UN 1715 ...	101	Acetic anhydride	UN 1760 ...	101	Compound, rust preventing or Compound, rust removing	UN 1794 ...	102	Lead sulfate
UN 1716 ...	101	Acetyl bromide	UN 1760 ...	102	Compound, tree or weed killing, liquid	UN 1796 ...	102	Acid mixtures
UN 1717 ...	101	Acetyl chloride	NA 1760 ...	101	Compound, vulcanizing, liquid	NA 1796 ...	101	Nitrating acid
UN 1718 ...	101	Acid butyl phosphate	UN 1760 ...	101	Corrosive liquid, n.o.s.	UN 1796 ...	102	Nitrohydrochloric acid
NA 1718 ...	101	Alkaline liquid, n.o.s.	NA 1760 ...	101	Corrosive liquids, n.o.s.	UN 1798 ...	101	Nitrohydrochloric acid, diluted
UN 1719 ...	102	Caustic alkali liquids, n.o.s.	NA 1760 ...	101	Cosmetics, liquid, n.o.s.	UN 1799 ...	102	Nonyl trichlorosilane
UN 1722 ...	101	Allyl chlorocarbonate	NA 1760 ...	101	2,2-Dichloropropionic acid	UN 1799 ...	101	Nonyltrichlorosilane
UN 1722 ...	102	Allyl chloroformate	NA 1760 ...	101	Drugs, n.o.s. liquid	UN 1800 ...	102	Octadecyl trichlorosilane
UN 1723 ...	102	Allyl iodide	NA 1760 ...	101	Ethyl phosphonothioic dichloride, anhydrous	UN 1800 ...	101	Octadecyltrichlorosilane
UN 1724 ...	101	Allyl trichlorosilane	NA 1760 ...	101	Ethyl phosphorodichloridate	UN 1801 ...	102	Octyl trichlorosilane
UN 1725 ...	102	Aluminum bromide	NA 1760 ...	101	Ferrous chloride, solution	UN 1801 ...	101	Octyltrichlorosilane
UN 1725 ...	101	Aluminum bromide, anhydrous	NA 1760 ...	101	Flame retardant compound liquid	UN 1802 ...	102	Perchloric acid
UN 1726 ...	102	Aluminum chloride	NA 1760 ...	101	Hexanoic acid	UN 1802 ...	101	Perchloric acid, not over 50% acid
UN 1727 ...	102	Ammonium hydrogen fluoride	NA 1760 ...	101	Isopentanoic acid	UN 1802 ...	102	Phenolsulphonic acid
UN 1727 ...	101	Ammonium hydrogen fluoride, solid	NA 1760 ...	101	Mentetrahydro phthalic anhydride	UN 1803 ...	102	Phenyl trichlorosilane
UN 1728 ...	102	Amyl trichlorosilane	NA 1760 ...	101	Methyl phosphonothioic dichloride, anhydrous	UN 1804 ...	101	Phenyltrichlorosilane
UN 1728 ...	101	Amyl trichlorosilane	NA 1760 ...	101	Morpholine, aqueous, mixture	UN 1804 ...	102	o-Phosphoric acid
UN 1729 ...	101	Anisoyl chloride	NA 1760 ...	101	Nitric acid, 40% or less	UN 1805 ...	101	Phosphoric acid
UN 1730 ...	101	Antimony pentachloride	NA 1760 ...	101	ORM-B, n.o.s.	UN 1805 ...	102	Phosphorus pentachloride
UN 1731 ...	102	Antimony pentachloride	NA 1760 ...	101	Textile treating compound or mixture, liquid	UN 1806 ...	101	Phosphorus pentachloride, solid
UN 1731 ...	101	Antimony pentachloride solution	NA 1760 ...	101	Titanium sulfate solution	NA 1807 ...	101	Phosphoric anhydride
UN 1732 ...	101	Antimony pentafluoride	NA 1760 ...	101	Valeric acid	UN 1807 ...	102	Phosphorus pentoxide
UN 1733 ...	102	Antimony trichloride	NA 1760 ...	101	Water treatment compounds, liquid	UN 1808 ...	101	Phosphorus tribromide
UN 1733 ...	101	Antimony trichloride, solid	NA 1760 ...	101	White acid	UN 1809 ...	101	Phosphorus trichloride
UN 1733 ...	101	Antimony trichloride solution	NA 1760 ...	101	Cupriethylenediamine	UN 1810 ...	101	Phosphorus oxychloride
UN 1734 ...	102	Batteries	UN 1761 ...	102	Cupriethylene-diamine	UN 1810 ...	102	Phosphoryl chloride
UN 1735 ...	102	Battery fluid	UN 1761 ...	101	Cupriethylene-diamine solution	UN 1811 ...	102	Potassium bifluoride
UN 1736 ...	101	Benzoyl chloride	UN 1762 ...	101	Cyclohexenyl trichlorosilane	NA 1811 ...	101	Potassium hydrogen fluoride solution
UN 1737 ...	101	Benzyl bromide	UN 1763 ...	101	Cyclohexyl trichlorosilane	UN 1812 ...	101	Potassium fluoride
UN 1738 ...	101	Benzyl chloride	UN 1764 ...	101	Dichloroacetic acid	UN 1812 ...	101	Potassium fluoride solution
UN 1739 ...	101	Benzyl chloroformate	UN 1765 ...	101	Dichloroacetyl chloride	UN 1813 ...	102	Potassium hydroxide
UN 1740 ...	102	Bifluorides, n.o.s.	UN 1766 ...	102	Dichlorophenyl trichlorosilane	UN 1813 ...	101	Potassium hydroxide, dry solid, flake, bead, or granular
UN 1741 ...	101	Boron trichloride	UN 1766 ...	101	Dichlorophenyltrichlorosilane	UN 1814 ...	102	Potassium hydroxide
UN 1741 ...	102	Boron trifluoride acetic acid complex	UN 1767 ...	101	Diethyl dichlorosilane	UN 1814 ...	101	Potassium hydroxide, liquid or solution
UN 1742 ...	101	Boron trifluoride-acetic acid complex	UN 1768 ...	102	Diffuorophosphoric acid			
			UN 1768 ...	101	Diffuorophosphoric acid, anhydrous			

(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 1815	102	Propionyl chloride	UN 1872	101	Lead peroxide	NA 1954	101	Refrigerating machine
UN 1816	101	Propyl trichlorostane	UN 1873	101	Perchloric acid	NA 1955	101	Chloroprene and nonflammable, nonliquefied compressed gas mixture
UN 1817	101	Pyrosulfonyl chloride	UN 1884	101	Barium oxide			
UN 1817	102	Pyrosulphonyl chloride	UN 1885	101	Benzidine	UN 1955	102	Compressed or liquefied gases
UN 1818	101	Silicon chloride or Silicon tetrachloride	UN 1886	102	Benzylidene chloride	NA 1955	101	Methyl bromide and nonflammable, nonliquefied compressed gas mixture, liquid
UN 1818	102	Silicon tetrachloride	UN 1887	101	Bromochloromethane			
UN 1819	102	Sodium aluminate	UN 1888	101	Chloroform	NA 1955	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound; mixed with compressed gas
UN 1819	101	Sodium aluminate solution	UN 1889	101	Cyanogen bromide			
UN 1821	101	Sodium hydrogen sulfate	UN 1891	102	Ethyl bromide			
UN 1821	102	Sodium hydrogen sulphate	UN 1892	102	Ethyl dichloroarsine			
UN 1823	102	Sodium hydroxide	UN 1893	102	Organophosphates			
UN 1823	101	Sodium hydroxide, dry, solid flake bead, or granular	UN 1894	102	Phenylmercuric hydroxide			
			UN 1895	102	Phenylmercuric nitrate	(UN 1955)	102	Perchloryl fluoride
			UN 1897	102	Tetrachloroethylene	(UN 1955)	102	Phosphorus trifluoride
			UN 1897	101	Tetrachloroethylene or Perchloroethylene	NA 1955	101	Phosphorus liquid or gas, n.o.s.
UN 1824	102	Sodium hydroxide	UN 1898	101	Acetyl iodide	(UN 1955)	102	Tetrafluorohydrazine
UN 1824	101	Sodium hydroxide liquid or solution	UN 1899	102	Axianesulphonic acids	NA 1956	101	Accumulator, pressurized
UN 1825	102	Sodium monoxide	UN 1901	102	Calcium hydrogen sulphite	UN 1956	101	Compressed gas, n.o.s.
UN 1825	101	Sodium monoxide solid	NA 1902	101	D(2-ethylhexyl) phosphoric acid	UN 1956	102	Compressed or liquefied gases
UN 1826	102	Acid mixtures	UN 1902	101	Dioctyl acid phosphate	NA 1956	101	Dichlorodifluoromethane- dichlorotetrafluoroethane mixture
NA 1826	101	Nitrating acid, spent	UN 1903	101	Dianfectant liquid			
UN 1827	102	Stannic chloride	UN 1903	102	Dianfectants			
UN 1827	101	Tin tetrachloride anhydrous	UN 1905	102	Selenic acid	NA 1956	101	Dichlorodifluoromethane- trichloromonofluoromethane mixture
UN 1828	101	Sulfur chloride	UN 1905	101	Selenic acid liquid			
UN 1828	102	Sulphur chlorides	UN 1906	101	Acid sludge	NA 1956	101	Dichlorodifluoromethane- trichloromonofluoromethane mixture
UN 1829	101	Sulfur trioxide	UN 1906	102	Sludge acid			
UN 1829	102	Sulphur trioxide	UN 1907	102	Soda lime	NA 1956	101	Dichlorodifluoromethane- trichloromonofluoromethane mixture
UN 1830	101	Sulfuric acid	UN 1907	101	Soda lime solid			
UN 1830	102	Sulphuric acid	UN 1908	102	Sodium chloride	NA 1956	101	Dichlorodifluoromethane- trichloromonofluoromethane mixture
NA 1831	101	Oleum	UN 1908	101	Sodium chloride solution			
UN 1831	102	Sulphuric acid	UN 1909	102	Sodium hydrogen sulphite			
UN 1832	101	Sulfuric acid spent	UN 1910	101	Calcium oxide	NA 1956	101	Dichlorodifluoromethane- trichloromonofluoromethane mixture
UN 1832	102	Sulphuric acid	UN 1911	102	Diborane	NA 1956	101	Hexafluoropropylene oxide
UN 1833	101	Sulfurous acid	UN 1911	101	Diborane or diborane mixtures	NA 1956	101	Fire rescue equipment containing carbon dioxide
UN 1833	102	Sulphurous acid	UN 1912	102	Methyl chloride and methylene chloride	NA 1956	101	Water pump system
UN 1834	101	Sulfuryl chloride	UN 1912	101	Methyl chloride, methylene chloride mixture	UN 1957	102	Deuterium
UN 1834	102	Sulphuryl chloride	UN 1913	102	Neon	UN 1958	102	Dichlorotetrafluoroethane
UN 1835	102	Tetramethylammonium hydroxide	UN 1914	102	Butyl propionate	UN 1959	102	1,1-Difluoroethylene
UN 1835	101	Tetramethylammonium hydroxide, liquid	UN 1915	102	Cyclohexanone	UN 1960	101	Engine starting fluid
			UN 1916	102	Dichloroethyl ether	UN 1961	102	Ethane
UN 1836	101	Thionyl chloride	UN 1917	102	Ethyl acrylate	UN 1962	101	Ethylene
UN 1837	101	Thiophosphoryl chloride	UN 1917	101	Ethyl acrylate inhibited	UN 1963	102	Helium
UN 1838	101	Titanium tetrachloride	UN 1918	102	Isopropylbenzene	UN 1964	102	Hydrocarbon gases
UN 1839	102	Trichloroacetic acid	UN 1919	102	Methyl acrylate	UN 1964	101	Hydrocarbon gas, nonliquefied
UN 1839	101	Trichloroacetic acid solid	UN 1919	101	Methyl acrylate inhibited	UN 1965	102	Hydrocarbon gases
UN 1840	102	Zinc chloride	UN 1920	102	Nonane	UN 1965	101	Hydrocarbon gas, liquefied
UN 1840	101	Zinc chloride solution	UN 1921	102	Propyleneimine	UN 1966	102	Hydrogen
UN 1841	101	Acetaldehyde ammonia	UN 1921	101	Propyleneimine inhibited	UN 1967	102	Hydrogen, liquefied
UN 1842	102	Acetic acid	UN 1922	101	Pyroldine	UN 1967	102	Insecticide gases
UN 1843	102	Ammonium dinitro-o-cresolate	UN 1922	102	Calcium dithionite	NA 1967	101	Insecticide, liquefied gas, containing Poison A material or Poison B material
UN 1845	101	Carbon dioxide, solid or Dry ice or Carbonice	UN 1924	102	Ethyl aluminum dichloride	NA 1967	101	Parathion and compressed gas mixture
UN 1846	101	Carbon tetrachloride	UN 1925	102	Ethyl aluminum sesquichloride			
UN 1847	102	Potassium sulphide	UN 1926	102	Methyl aluminum sesquichloride	UN 1968	102	Insecticide gases
UN 1848	101	Propionic acid	UN 1927	102	Methyl aluminum sesquichloride	NA 1968	101	Insecticide, liquefied gas
UN 1848	101	Propionic acid, solution	UN 1928	102	Methyl magnesium bromide	UN 1969	102	Isobutane
UN 1849	102	Sodium sulphide	UN 1928	101	Methyl magnesium bromide in ethyl ether	UN 1970	102	Krypton
UN 1850	101	Eradicator, paint or grease liquid	UN 1929	102	Potassium dithionite	UN 1971	101	Methane
UN 1850	102	Eradicators	UN 1930	102	Triisobutyl aluminum	UN 1971	102	Methane or natural gases
UN 1851	101	Medicines, n.o.s.	UN 1931	102	Zinc dimorphite	UN 1972	102	Methane or natural gases
UN 1851	101	Medicines, n.o.s. liquid	UN 1931	101	Zinc hydrosulfite	UN 1973	102	Chlorodifluoromethane and dichlorotrifluoroethane
UN 1851	101	Medicines, n.o.s. solid	UN 1932	102	Zirconium			
UN 1854	102	Barium alloys	UN 1932	101	Zirconium scrap	UN 1974	102	Chlorodibromobromomethane
UN 1855	102	Calcium	UN 1935	102	Cyanides	UN 1975	102	Nitric oxide and nitrogen tetroxide
UN 1856	102	Rags	UN 1945	101	Cyanide solution, n.o.s.	UN 1976	102	Octafluorocyclobutane
UN 1856	101	Rags, oily	UN 1938	102	Bromoacetic acid	UN 1977	102	Nitrogen
UN 1857	102	Textile waste	UN 1938	101	Bromoacetic acid solid	UN 1977	101	Nitrogen, pressurized liquid
UN 1857	101	Textile waste, wet	UN 1939	101	Bromoacetic acid solution	UN 1978	102	Propane
UN 1857	101	Waste textile, wet	UN 1940	101	Phosphorus oxybromide	UN 1979	102	Rare gases
UN 1858	101	Hexafluoropropylene	UN 1941	101	Thioglycolic acid	NA 1980	101	Helium-oxygen mixture
UN 1859	101	Silicon tetrafluoride	UN 1942	102	Dioxodifluoromethane	UN 1980	102	Rare gases
UN 1860	102	Vinyl fluoride	UN 1942	101	Ammonium nitrate (no organic coating)	UN 1981	102	Rare gases
UN 1860	101	Vinyl fluoride, inhibited	NA 1942	101	Ammonium nitrate (organic coating)	UN 1982	102	Tetrafluoromethane
UN 1862	101	Ethyl crotonate	UN 1944	102	Matches	UN 1983	102	Trifluorochloroethane
UN 1863	102	Fuel, aviation	UN 1944	101	Matches safety	UN 1984	102	Trifluoromethane
UN 1863	101	Fuel, aviation, turbine engine	UN 1945	102	Matches	UN 1986	102	Alcohols
UN 1864	102	Gas dnps	UN 1950	102	Aerosol dispensers	NA 1986	101	Denatured alcohol
UN 1864	101	Gas dnps, hydrocarbon	UN 1951	102	Argon	NA 1986	101	Propargyl alcohol
UN 1865	102	n-Propyl nitrate	UN 1951	101	Argon liquid pressurized	UN 1987	101	Rum, denatured
UN 1866	102	Resin	UN 1952	102	Ethylene oxide and carbon dioxide	UN 1987	101	Alcohol, n.o.s.
UN 1866	101	Resin solution	UN 1953	102	Compressed or liquefied gases	UN 1988	102	Alcohols
UN 1867	102	Cigarettes	(UN 1953)	102	Stones	UN 1988	102	Aldehydes
UN 1867	101	Self-lighting cigarette	(UN 1953)	102	Water-gas	UN 1989	102	Aldehydes
UN 1868	101	Decaborane	UN 1954	101	Compressed gas, n.o.s.	NA 1989	101	Benzaldehyde
UN 1869	102	Magnesium	UN 1954	102	Compressed or liquefied gases	UN 1990	102	Benzaldehyde
UN 1869	102	Magnesium alloys				UN 1991	102	Chloroprene
UN 1869	101	Magnesium, metal				UN 1991	101	Chloroprene, inhibited
NA 1869	101	Magnesium scrap						
UN 1870	102	Potassium borohydrate						
UN 1871	102	Titanium hydride						
UN 1872	102	Lead dioxide						

(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 peroxy maleate
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 peroxy maleate
NA 1993 ...	101	Cosmetics, n.o.s.	UN 2037 ...	102	Gas cartridges	UN 2100 ...	102	tert-Butyl permaleate
NA 1993 ...	101	Creosote, coal tar	UN 2037 ...	102	Receptacles	UN 2101 ...	101	tert-Butyl peroxy maleate
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 peroxy oxide
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	Isobutylaldehyde	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	Dichloropropene	UN 2104 ...	101	tert-Butyl peroxy-3,5,5- trimethylhexanoate or tert-Butyl peroxyisooctanoate
NA 1993 ...	101	Fuel oil	UN 2048 ...	102	Dichloropropene 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 6	UN 2049 ...	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 monoperoxyphthalate
NA 1993 ...	101	Insecticide, liquid, n.o.s.	UN 2050 ...	102	Diisobutylene	UN 2106 ...	101	Di-(tert-butyl peroxy)phthalate
NA 1993 ...	101	Organic peroxide, liquid or solution, n.o.s.	UN 2051 ...	102	Dimethylmethanamine	UN 2106 ...	102	tert-Butyl diperoxyphthalate
NA 1993 ...	101	Plastic solvent, n.o.s.	UN 2052 ...	102	Dipentene	UN 2107 ...	101	Di-(tert-butyl peroxy)phthalate
NA 1993 ...	101	Refrigerating machine	UN 2053 ...	102	Methyl isobutyl carbinol	UN 2107 ...	102	tert-Butyl diperoxyphthalate
NA 1993 ...	101	Solvent, n.o.s.	UN 2054 ...	101	Morpholine	UN 2108 ...	101	Di-(tert-butyl peroxy)phthalate
NA 1993 ...	101	Wax, liquid	NA 2054 ...	101	Morpholine, aqueous, mixture	UN 2108 ...	102	Di-(tert-butyl peroxy)phthalate
UN 1994 ...	102	Iron carbonyl	UN 2055 ...	101	Styrene monomer	UN 2108 ...	102	tert-Butyl diperoxyphthalate
UN 1995 ...	102	Pesticides	UN 2055 ...	101	Styrene monomer, inhibited	UN 2110 ...	101	tert-Butyl peroxyphthalate
UN 1996 ...	102	Pesticides	UN 2056 ...	101	Tetrahydrofuran	UN 2110 ...	102	tert-Butyl peroxyphthalate
UN 1997 ...	102	Solvents	UN 2057 ...	102	Tripropylene	UN 2111 ...	102	2,2-Bis-(tert-butyl peroxy) butane
UN 1998 ...	102	Solvents	UN 2058 ...	102	Valeraldehyde	UN 2111 ...	101	2,2-Di-(tert-butyl peroxy)butane
NA 1999 ...	101	Asphalt	UN 2059 ...	101	Box toe gum	UN 2112 ...	102	1,4-Bis-(2-tert-butyl peroxy isopropyl) benzene, or, 1,3-bis-(2-tert- butyl peroxy isopropyl) benzene
NA 1999 ...	101	Asphalt, cut back	NA 2059 ...	102	Collodion	UN 2112 ...	101	1,3-Di-(2-tert-butyl peroxy isopropyl) benzene
UN 1999 ...	102	Cut-backs	UN 2059 ...	101	Nitrocellulose	UN 2112 ...	101	1,3-Di-(2-tert-butyl peroxy isopropyl) benzene and 1,4-Di-(2-tert- butyl peroxy isopropyl) benzene mixture
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 2113 ...	101	p-Chlorobenzoyl peroxide
UN 2000 ...	102	Celluloid	NA 2059 ...	101	Pyroxylin solution	UN 2113 ...	102	p-Chlorobenzoyl peroxide
UN 2001 ...	102	Cobalt naphthenates	UN 2059 ...	101	Pyroxylin solvent, n.o.s.	UN 2114 ...	101	p-Chlorobenzoyl peroxide
UN 2002 ...	102	Celluloid	UN 2060 ...	101	Box toe gum	UN 2114 ...	102	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium alkylchlorides	UN 2065 ...	102	Endrin	UN 2115 ...	101	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium alkyls	UN 2067 ...	101	Ammonium nitrate fertilizer	UN 2115 ...	102	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Aluminium tributyl	UN 2067 ...	102	Ammonium nitrate fertilizers	UN 2115 ...	101	p-Chlorobenzoyl peroxide
UN 2003 ...	102	Metal alkyls, n.o.s.	UN 2068 ...	101	Ammonium nitrate-carbonate mixture	UN 2116 ...	101	p-Chlorobenzoyl peroxide
UN 2004 ...	102	Magnesium diamide	UN 2069 ...	101	Ammonium nitrate mixed fertilizer	UN 2116 ...	102	p-Chlorobenzoyl peroxide
UN 2005 ...	102	Magnesium diphenyl	UN 2070 ...	101	Ammonium nitrate-phosphate	UN 2117 ...	101	Cumene hydroperoxide
UN 2006 ...	102	Plastics	UN 2071 ...	102	Ammonium nitrate fertilizers	UN 2117 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
NA 2006 ...	101	Pyroxylin plastic scrap	UN 2072 ...	102	Ammonium nitrate fertilizer	UN 2118 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
NA 2006 ...	101	Pyroxylin plastics, rods, sheets, rolls, or tubes	UN 2073 ...	102	Ammonia	UN 2118 ...	101	Cyclohexanone peroxide
UN 2008 ...	102	Zirconium	UN 2073 ...	101	Ammonia solution	UN 2119 ...	102	1-Hydroxy-1'-hydroperoxy dicyclohexyl peroxide
UN 2008 ...	101	Zirconium metal, dry	UN 2074 ...	102	Acrylamide	UN 2119 ...	101	Cyclohexanone peroxide
UN 2008 ...	102	Zirconium metal powder, dry	UN 2075 ...	102	Chloral	UN 2120 ...	101	Decanoyl peroxide
UN 2009 ...	102	Zirconium	UN 2076 ...	101	Cresol	NA 2121 ...	101	Dicumyl peroxide
UN 2010 ...	102	Magnesium hydride	UN 2076 ...	102	Cresols	UN 2121 ...	101	Dicumyl peroxide, dry
UN 2011 ...	102	Magnesium phosphide	UN 2077 ...	102	Naphthylamine	UN 2122 ...	102	Di-(2-ethylhexyl) perdicarbonate
UN 2012 ...	102	Potassium phosphide	UN 2078 ...	101	Toluene diisocyanate	UN 2122 ...	101	Di-(2-ethylhexyl) peroxydicarbonate
UN 2013 ...	102	Strontium phosphide	UN 2079 ...	102	Diethylenetriamine	UN 2123 ...	102	Di-(2-ethylhexyl) perdicarbonate
UN 2014 ...	102	Hydrogen peroxide	UN 2080 ...	101	Acetyl acetone peroxide	UN 2123 ...	101	Di-(2-ethylhexyl) peroxydicarbonate
UN 2014 ...	101	Hydrogen peroxide solution	UN 2081 ...	101	Acetyl benzoyl peroxide	UN 2124 ...	101	Lauroyl peroxide
UN 2015 ...	102	Hydrogen peroxide	UN 2081 ...	101	Acetyl benzoyl peroxide solution	UN 2125 ...	101	p-Menthane hydroperoxide
UN 2015 ...	101	Hydrogen peroxide solution	UN 2082 ...	101	Acetyl cyclohexanesulphonyl peroxide	UN 2125 ...	101	Paramenthane hydroperoxide
UN 2016 ...	102	Ammunition	UN 2082 ...	102	Acetyl cyclohexane sulphonyl peroxide	UN 2125 ...	102	p-Menthane hydroperoxide
UN 2016 ...	101	Chemical ammunition, nonexplosive	UN 2083 ...	101	Acetyl cyclohexane sulphonyl peroxide	UN 2126 ...	102	Isobutyl methyl ketone peroxide
NA 2016 ...	101	Grenade	UN 2083 ...	102	Acetyl cyclohexane sulphonyl peroxide	UN 2126 ...	101	Methyl isobutyl ketone peroxide
UN 2017 ...	102	Ammunition	UN 2084 ...	101	Acetyl peroxide	UN 2127 ...	102	Ethyl methyl ketone peroxide(s)
UN 2017 ...	101	Chemical ammunition, nonexplosive	UN 2084 ...	101	Acetyl peroxide solution	UN 2128 ...	102	Isononanoyl peroxide
NA 2017 ...	101	Grenade, tear gas	NA 2085 ...	101	Benzoyl peroxide	UN 2128 ...	101	Isononanoyl peroxide
UN 2018 ...	102	Chloroanilines	UN 2086 ...	102	Benzoyl peroxide	NA 2129 ...	101	Caprylyl peroxide solution
UN 2019 ...	102	Chloroanilines	UN 2087 ...	101	Benzoyl peroxide	UN 2129 ...	102	n-Octanoyl peroxide
UN 2020 ...	102	Chlorophenates	UN 2088 ...	101	Benzoyl peroxide	UN 2129 ...	101	n-Octanoyl peroxide
UN 2020 ...	102	Chlorophenols	UN 2089 ...	101	Benzoyl peroxide	UN 2130 ...	102	n-Nonanoyl peroxide
NA 2020 ...	101	Pentachlorophenol	UN 2090 ...	101	Benzoyl peroxide	UN 2130 ...	101	Polargonyl peroxide
NA 2020 ...	101	Trichlorophenol	UN 2091 ...	101	tert-Butyl cumyl peroxide	UN 2131 ...	102	Peracetic acid
UN 2021 ...	102	Chlorophenates	NA 2091 ...	101	tert-Butyl isopropyl benzene hydroperoxide	NA 2131 ...	101	Peracetic acid solution
UN 2021 ...	102	Chlorophenols	UN 2091 ...	102	tert-Butyl cumyl peroxide	UN 2131 ...	101	Peroxyacetic acid
UN 2022 ...	102	Cresylic acid	UN 2092 ...	101	tert-Butyl hydroperoxide	UN 2132 ...	101	Propionyl peroxide
NA 2022 ...	101	Mining reagent, liquid	UN 2092 ...	102	tert-Butyl hydroperoxide	UN 2133 ...	102	Diisopropyl perdicarbonate
UN 2023 ...	101	Epichlorohydrin	UN 2093 ...	101	tert-Butyl hydroperoxide	NA 2133 ...	101	Isopropyl percarbonate, unstabilized
UN 2024 ...	102	Mercury compounds	UN 2093 ...	102	tert-Butyl hydroperoxide	UN 2133 ...	101	Isopropyl peroxydicarbonate
NA 2025 ...	101	Mercuric subsulfate, solid	UN 2094 ...	101	tert-Butyl hydroperoxide	UN 2134 ...	102	Diisopropyl perdicarbonate
UN 2025 ...	102	Mercury compounds	UN 2094 ...	102	tert-Butyl hydroperoxide	NA 2134 ...	101	Isopropyl percarbonate, stabilized
UN 2025 ...	101	Mercury compound, solid, n.o.s.	UN 2095 ...	101	tert-Butyl peroxyacetate	UN 2134 ...	101	Isopropyl peroxydicarbonate
UN 2026 ...	102	Phenylmercuric compounds, n.o.s.	UN 2095 ...	102	tert-Butyl peroxyacetate	UN 2135 ...	101	Succinic acid peroxide
UN 2027 ...	102	Sodium arsenite	UN 2096 ...	101	tert-Butyl peracetate	UN 2136 ...	101	Tetralin hydroperoxide
UN 2028 ...	102	Bombs, smoke	UN 2096 ...	102	tert-Butyl peroxyacetate	UN 2137 ...	102	2,4-Dichlorobenzoyl peroxide
UN 2029 ...	102	Hydrazine	UN 2098 ...	102	tert-Butyl peracetate	UN 2137 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2029 ...	101	Hydrazine, anhydrous	UN 2097 ...	101	tert-Butyl peroxybenzoate	UN 2138 ...	102	2,4-Dichlorobenzoyl peroxide
UN 2030 ...	102	Hydrazine	UN 2097 ...	102	tert-Butyl perbenzoate	UN 2138 ...	101	2,4-Dichlorobenzoyl peroxide
UN 2030 ...	101	Hydrazine, aqueous solution						
UN 2031 ...	101	Nitric acid						
UN 2032 ...	102	Nitric acid						
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 2166	102	2,2-Bis-(4,4-di-tert-butylperoxy cyclohexyl) propane	UN 2222	102	Anisole
UN 2139 ...	101	2,4-Dichlorobenzoyl peroxide				UN 2224	101	Benzonitrile
UN 2140 ...	101	n-Butyl-4,4-di-(tert- butylperoxy)valerate	UN 2168	101	2,2-Di-(4,4-di-tert- butylperoxy)cyclohexylpropane	UN 2225	102	Benzene sulphonyl chloride
UN 2140 ...	102	n-Butyl-4,4-bis-(tert-butyl-peroxy) valerate	UN 2169	101	n-Butyl peroxydicarbonate	UN 2226	102	Benzoinchloride
UN 2141 ...	101	n-Butyl-4,4-di-(tert- butylperoxy)valerate	UN 2169	102	n-Butyl perdicarbonate	UN 2227	102	n-Butyl methacrylate
UN 2141 ...	102	n-Butyl-4,4-bis-(tert-butyl-peroxy) valerate	UN 2170	101	n-Butyl peroxydicarbonate	UN 2228	102	Butylphenol
UN 2142 ...	101	tert-Butyl peroxyisobutyrate	UN 2170	102	n-Butyl perdicarbonate	UN 2229	102	Butylphenols
UN 2142 ...	102	tert-Butyl perisobutyrate	UN 2171	101	Diisopropylbenzene hydroperoxide solution	UN 2230	102	Chionoleil anthracene oil
UN 2143 ...	101	tert-Butyl peroxy-2-ethylhexanoate	UN 2171	102	Diisopropylbenzene hydroperoxide solution	UN 2232	102	Chloroacetaldehyde
UN 2143 ...	102	tert-Butyl per-(2-ethyl) hexanoate	UN 2172	102	2,5-Dimethyl-2,5-bis-(benzoylperoxy) hexane	UN 2233	102	p-Chloro-o-anisidine
UN 2144 ...	101	tert-Butyl peroxydiethylacetate	UN 2172	101	2,5-Dimethyl-2,5-di- (benzoylperoxy)hexane	UN 2234	102	Chlorobenzotrifluoride
UN 2144 ...	102	tert-Butyl peroxydiethylacetate	UN 2173	102	2,5-Dimethyl-2,5-bis-(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	Chloronitroamines
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	Chlorotoluidines
UN 2146 ...	101	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	UN 2174	101	Dimethylhexane dihydroperoxide (with 18% or more water)	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 peroxydicarbonate	UN 2241	102	Cycloheptane
UN 2148 ...	102	Bis-(1-hydroxy cyclohexyl) peroxide	UN 2176	101	Di-n-propyl peroxydicarbonate	UN 2242	102	Cycloheptane
UN 2148 ...	101	Di-(1-hydroxycyclohexyl) peroxide	UN 2177	102	tert-Butyl peroxyneodecanoate	UN 2243	102	Cyclohexyl acetate
UN 2149 ...	102	Dibenzyl perdicarbonate	UN 2177	101	tert-Butyl per-neodecanoate	UN 2244	102	Cyclopentanol
UN 2149 ...	101	Dibenzyl peroxydicarbonate	UN 2178	102	2,2-Dihydroperoxy propane	UN 2245	102	Cyclopentanone
UN 2150 ...	102	Di-sec-butyl perdicarbonate	UN 2178	101	2,2-Dihydroperoxy propane	UN 2246	102	Cyclopentene
UN 2150 ...	101	Di-sec-butyl peroxydicarbonate	UN 2179	102	1,1-Bis-(tert-butylperoxy) cyclohexane	UN 2247	102	n-Decane
UN 2151 ...	102	Di-sec-butyl perdicarbonate	UN 2179	101	1,1-Di-(tert-butylperoxy)cyclohexane	UN 2248	102	Di-n-butylamine
UN 2151 ...	101	Di-sec-butyl peroxydicarbonate	UN 2180	102	1,1-Bis-(tert-butylperoxy) cyclohexane	UN 2249	102	sym-Dichlorodimethyl ether
UN 2152 ...	102	Dicyclohexyl perdicarbonate	UN 2180	101	1,1-Di-(tert-butylperoxy)cyclohexane	UN 2250	102	Dichlorophenyl isocyanates
UN 2152 ...	101	Dicyclohexyl peroxydicarbonate	UN 2181	102	1,2-Bis-(tert-butylperoxy) cyclohexane	UN 2252	102	1,2-Dimethoxyethane
UN 2153 ...	102	Dicyclohexyl perdicarbonate	UN 2181	101	1,2-Di-(tert-butylperoxy)cyclohexane	UN 2253	102	N,N-Dimethylaniline
UN 2153 ...	101	Dicyclohexyl peroxydicarbonate	UN 2182	102	Diobutyl peroxide	UN 2254	102	Matches
UN 2154 ...	102	Bis-(4-tert-butyl cyclohexyl) perdicarbonate	UN 2182	101	Isobutyl peroxide	UN 2255	101	Organic peroxide, sample, n.o.s.
UN 2154 ...	101	Di-(4-tert- butylcyclohexyl)peroxydicarbonate	UN 2183	102	tert-Butyl peroxolone	UN 2255	102	Organic peroxides, n.o.s.
UN 2155 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane	UN 2184	102	Ethyl-3,3-bis-(tert-butylperoxy) butyrate	UN 2256	102	Cyclohexane
UN 2155 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane	UN 2184	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	UN 2257	102	Potassium metal
UN 2156 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane	UN 2185	102	Ethyl-3,3-bis-(tert-butylperoxy) butyrate	UN 2257	101	Potassium, metal or metallic
UN 2156 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane	UN 2185	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	UN 2258	102	Propylene diamine
UN 2157 ...	102	2,5-Dimethyl-2,5-bis-(2- ethylhexanoylperoxy) hexane	UN 2186	101	Carbon dioxide, liquefied	UN 2258	101	Propylenediamine
UN 2157 ...	101	2,5-Dimethyl-2,5-di-(2- ethylhexanoylperoxy)hexane	UN 2186	102	Arsine	UN 2259	102	Tripropylamine
UN 2158 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane-3	UN 2187	101	Dichlorosilane	UN 2260	102	Tripropylamine
UN 2158 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane-3	UN 2188	102	Oxygen difluoride	UN 2261	101	Xylenol
UN 2159 ...	102	2,5-Dimethyl-2,5-bis-(tert- butylperoxy) hexane-3	UN 2189	101	Sulfuryl fluoride	UN 2261	102	Xylenols
UN 2159 ...	101	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane-3	UN 2190	102	Sulphuryl fluoride	UN 2263	101	1,4-Dimethylcyclohexane
UN 2160 ...	102	1,1,3,3-Tetramethyl butyl hydroperoxide	UN 2191	101	Germane	UN 2263	102	Dimethylcyclohexanes
UN 2160 ...	101	1,1,3,3-Tetramethylbutyl hydroperoxide	UN 2192	102	Selenium hexafluoride	UN 2264	102	N, N-Dimethylcyclohexylamine
UN 2161 ...	102	1,1,3,3-Tetramethyl butyl peroxy-2- ethyl hexanoate	UN 2194	101	Tellurium hexafluoride	UN 2265	102	N,N-Dimethylformamide
UN 2161 ...	101	1,1,3,3-Tetramethylbutyl peroxy-2- ethylhexanoate	UN 2195	102	Tungsten hexafluoride	UN 2266	102	Dimethyl-N-propylamine
UN 2162 ...	101	Pinane hydroperoxide	UN 2196	101	Hydrogen iodide	UN 2267	102	Dimethyl thophosphoryl chloride
UN 2162 ...	102	Pinane hydroperoxide solution	UN 2197	102	Phosphorus pentafluoride	UN 2269	102	Dipropylene triamine
UN 2163 ...	101	Diacetone alcohol peroxide	UN 2198	101	Phosphene	UN 2269	101	Insnobpropylamine
UN 2163 ...	102	Diacetone alcohol peroxides	UN 2199	102	Hydrogen selenide	UN 2270	102	Ethylamine solution
UN 2164 ...	102	Diethyl perdicarbonate	UN 2202	101	Silane	UN 2271	102	Ethyl amyl ketone
UN 2164 ...	101	Diethyl peroxydicarbonate	UN 2203	102	Carbonyl sulfide	UN 2272	102	N-Ethylamine
UN 2165 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxonane	UN 2204	102	Adiponitrile	UN 2273	102	2-Ethylamine
UN 2165 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclononane	UN 2205	102	Isocyanates	UN 2274	102	N-Ethyl-n-benzylamine
UN 2166 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxonane	UN 2206	102	Isocyanates	UN 2275	102	2-Ethylbutanol
UN 2166 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclononane	UN 2207	102	Bleaching powder	UN 2276	102	2-Ethylhexylamine
UN 2167 ...	102	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxonane	UN 2208	102	Calcium hypochlorite mixtures	UN 2277	102	Ethyl methacrylate
UN 2167 ...	101	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxocyclononane	UN 2209	102	Formaldehyde	UN 2278	102	n-Heptane
			UN 2210	102	Formaldehyde solution	UN 2279	102	Hexachlorobutadiene
			NA 2210	102	Maneb, or maneb preparation(s)	UN 2280	102	Hexamethylenediamine
			UN 2211	101	Peelcode, water reactive	UN 2280	101	Hexamethylenediamine, solid
			UN 2212	102	Plastics moulding materials	UN 2282	102	Hexanols
			UN 2213	101	Asbestos, blue	UN 2283	102	Isobutyl methacrylate
			UN 2214	102	Paraloxaldehyde	UN 2284	102	Isobutyronitrile
			NA 2215	101	Phthalic anhydride	UN 2286	102	Isododecane
			UN 2215	101	Maleic acid	UN 2287	102	Isocloptane
			UN 2216	102	Maleic anhydride	UN 2288	102	Isocloptane
			UN 2216	101	Fish meal or fish scrap	UN 2289	102	Isocloptane
			NA 2216	101	Fish meal or fish scrap containing 8% to 12% water	UN 2290	102	Isocloptane
			UN 2217	102	Seed cake	NA 2291	101	Isocloptane
			UN 2218	101	Acrylic acid	NA 2291	101	Isocloptane
			UN 2219	102	Allyl glycidyl ether	NA 2291	101	Isocloptane
			UN 2220	102	Aluminum alkyl halides, in solution	NA 2291	101	Isocloptane
			UN 2221	102	Aluminum alkyl halides	NA 2291	101	Isocloptane
						UN 2291	102	Lead chloride
						UN 2291	102	Lead compounds
						UN 2291	101	Lead fluoride
						UN 2291	101	Lead sulfate
						UN 2291	101	Lead sulfide
						UN 2291	101	Lead thiocyanate
						UN 2293	102	4-Methoxy-4-methylpentan-2-one
						UN 2294	102	N-Methylaniline
						UN 2295	102	Methyl chloroacetate
						UN 2296	102	Methyl cyclohexane
						UN 2296	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 2300	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	Isobutyryl 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	Octadiene	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	Phenelidines	UN 2402 ...	102	Propanethiols	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 hydrosulfide, solid	UN 2406 ...	102	Isopropyl isobutyrate	UN 2491 ...	102	Ethanolamine
UN 2318 ...	102	Sodium hydrosulphide	UN 2407 ...	102	Isopropyl chloroformate	UN 2491 ...	101	Monochanolamine
UN 2319 ...	102	Terpene hydrocarbons n.o.s.	UN 2408 ...	102	Isopropyl formate	UN 2493 ...	101	Hexamethylmelamine
UN 2320 ...	102	Tetraethylenepentamine	UN 2409 ...	102	Isopropyl propionate	UN 2495 ...	101	Iodine pentafluoride
UN 2321 ...	102	Trichlorobenzene	UN 2410 ...	102	1,2,3,6-Tetrahydro-pyridine	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	Triisobutylene	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	Dibenzoyldichlorosilane	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	Bromoacetyl bromide
UN 2341 ...	102	1-Bromo-3-methylbutane	UN 2437 ...	102	Methylphenyldichlorosilane	UN 2514 ...	101	Bromobenzene
UN 2342 ...	102	Bromomethylpropanes	UN 2438 ...	102	Pivaloyl chloride	UN 2515 ...	102	Bromolform
UN 2343 ...	102	2-Bromopentane	UN 2438 ...	101	Trimethylacetyl chloride	UN 2516 ...	102	Carbon tetrabromide
UN 2344 ...	102	Bromopropanes	UN 2439 ...	101	Sodium bifluoride, solid	UN 2517 ...	101	Difluoromonochloroethane
UN 2345 ...	102	3-Bromopropyne	UN 2439 ...	101	Sodium bifluoride, solution	UN 2518 ...	102	1,5,9-Cyclododecatriene
UN 2346 ...	102	Butanedione	UN 2439 ...	102	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 oxytrichloride	UN 2525 ...	102	Ethyl oxalate
UN 2350 ...	102	Butyl methyl ether	NA 2443 ...	101	Vanadium oxytrichloride and titanium tetrachloride mixture	UN 2526 ...	102	Furfurylamine
UN 2351 ...	102	Butyl nitrite	UN 2444 ...	101	Vanadium tetrachloride	UN 2527 ...	102	Isobutyl acrylate
UN 2352 ...	102	Butyl vinyl ether	UN 2445 ...	102	Lithium alkyls	UN 2528 ...	102	Isobutylisobutyrate
UN 2353 ...	102	Butyryl chloride	UN 2446 ...	102	Nitroresols	UN 2529 ...	101	Isobutyric acid
UN 2354 ...	102	Chloromethyl ethyl ether	UN 2447 ...	102	Phosphorus white, molten	UN 2530 ...	101	Isobutyric anhydride
UN 2356 ...	102	2-Chloropropane	UN 2448 ...	102	Sulphur, molten	UN 2531 ...	102	Methacrylic acid
UN 2357 ...	101	Cyclohexylamine	NA 2449 ...	101	Ammonium oxalate	UN 2533 ...	102	Methyl trichloroacetate
UN 2358 ...	102	Cyclooctatetraene	NA 2449 ...	101	Cupric oxalate	UN 2534 ...	102	Methyl chlorosilane
UN 2359 ...	102	Diallylamine	UN 2449 ...	102	Oxalates	UN 2535 ...	102	Methylmorpholine
UN 2360 ...	102	Diallyl ether	UN 2451 ...	101	Nitrogen trifluoride	UN 2536 ...	102	Methyltetrahydrofuran
UN 2361 ...	102	Diisobutylamine	UN 2451 ...	102	2-Chloropropene	UN 2538 ...	102	Nitronaphthalene
UN 2362 ...	102	1,1-Dichloroethane	UN 2456 ...	101	2-Chloropropene	UN 2541 ...	102	Terpinolene
UN 2363 ...	101	Ethyl mercaptan	UN 2457 ...	101	2,3-Dimethylbutane	UN 2542 ...	102	Tributylamine
UN 2364 ...	102	Propyl benzene	UN 2458 ...	101	Hexadiene	UN 2545 ...	101	Hafnium metal, dry
UN 2366 ...	102	Diethyl carbonate	UN 2459 ...	102	2-Methyl-1-butene	UN 2545 ...	102	Hafnium metal powder, dry
UN 2367 ...	102	alpha-Methyl valeraldehyde	UN 2460 ...	102	2-Methyl-2-butene	UN 2546 ...	102	Titanium metal powder, dry or wet
UN 2368 ...	102	alpha-Pinene	UN 2460 ...	101	Methyl butene	UN 2547 ...	102	Sodium superoxide
UN 2368 ...	101	Pinene	UN 2461 ...	101	Methylpentadene	UN 2550 ...	102	Ethyl methyl ketone peroxide(s)
UN 2369 ...	102	Ethylene glycol monobutyl ether	UN 2462 ...	101	Methyl pentane	UN 2550 ...	101	Methyl ethyl ketone peroxide
UN 2370 ...	102	Hex-1-ene	UN 2462 ...	102	Methylpentanes	UN 2551 ...	101	tert-Butyl peroxydiethylacetate, with tert-Butyl peroxybenzoate
UN 2371 ...	102	Isopentenes	UN 2463 ...	102	Aluminium hydride	UN 2551 ...	102	tert-Butyl peroxylacetate
UN 2373 ...	102	Diethoxymethane	UN 2463 ...	101	Aluminium hydride	UN 2552 ...	102	Hexafluoroacetone hydrate
UN 2375 ...	102	Diethyl sulfide	UN 2464 ...	101	Beryllium nitrate	UN 2553 ...	102	Coal tar naphtha
UN 2376 ...	102	2,3-Dihydropyran	UN 2465 ...	102	Dichloroisocyanuric acid	NA 2553 ...	101	Coal tar naphtha
UN 2376 ...	101	Dihydropyran	NA 2465 ...	101	Potassium dichloro-s-triazinetriene	UN 2553 ...	101	Naphtha
UN 2377 ...	102	1,1-Dimethoxyethane	UN 2465 ...	101	Sodium dichloro-s-triazinetriene	UN 2554 ...	102	Methyl allyl chloride
UN 2379 ...	102	1,3-Dimethylbutylamine	UN 2466 ...	102	Potassium superoxide	UN 2554 ...	102	Methyl allyl chloride
UN 2380 ...	102	Dimethyldiethoxysilane	UN 2467 ...	102	Sodium percarbonates	UN 2555 ...	102	Nitrocellulose
UN 2381 ...	102	Dimethyl disulfide	UN 2468 ...	102	Trichloroisocyanuric acid	NA 2555 ...	101	Nitrocellulose, colloided, granular or flake, wet with not less than 20% water
UN 2382 ...	102	Dimethylhydrazine	UN 2468 ...	101	Trichloro-s-triazinetriene (mono-(Trichloro) tetra-(monopotassium dichloro)-penta-s-triazinetriene, dry	NA 2555 ...	101	Nitrocellulose, wet with not less than 20% water
UN 2383 ...	102	Dipropylamine	UN 2469 ...	102	Zinc bromate	UN 2556 ...	102	Nitrocellulose, wet with not less than 30% alcohol or solvent
UN 2384 ...	102	Dipropyl ether	UN 2470 ...	102	Benzyl cyanide	NA 2557 ...	101	Lacquer base, or Lacquer chips, dry
UN 2385 ...	102	Ethylisobutyrate	UN 2471 ...	102	Osmium tetroxide	UN 2557 ...	102	Nitrocellulose
UN 2388 ...	102	Fluorobenzene	UN 2473 ...	102	Sodium arseniate	UN 2558 ...	102	1-Bromo-2,3-epoxypropane
UN 2388 ...	102	Fluorotoluenes	UN 2474 ...	101	Thiophosgene	UN 2562 ...	101	tert-Butyl peroxyisobutyrate
UN 2389 ...	101	Furan	UN 2475 ...	102	Vanadium trichloride	UN 2562 ...	102	tert-Butyl peroxyisobutyrate
UN 2390 ...	102	2-Iodobutane	UN 2477 ...	102	Methyl isothiocyanate	UN 2564 ...	102	Trichloroacetic acid
UN 2391 ...	102	Iodomethylpropanes	UN 2478 ...	102	Isocyanates			
UN 2392 ...	102	Iodopropanes						
UN 2393 ...	102	Isobutyl formate						

(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 2564	101	Trichloroacetic acid solution	UN 2757	101	Carbamate pesticide, liquid, n.o.s.	UN 2773	101	Substituted nitrophenol pesticide, liquid, n.o.s.
UN 2565	102	Dicyclohexylamine	UN 2757	101	Carbamate pesticide, solid, n.o.s.	UN 2773	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	Bpyridium pesticide, liquid, n.o.s.
NA 2570	101	Cadmium bromide	NA 2757	101	Carbofuran mixture, liquid	UN 2781	101	Bpyridium pesticide, solid, n.o.s.
NA 2570	101	Cadmium chloride	NA 2757	101	Mercaptodimethur	NA 2781	101	Dquat
UN 2570	102	Cadmium compounds	NA 2757	101	Mexacarbate	UN 2782	101	Bpyridium pesticide, liquid, n.o.s.
UN 2572	102	Phenylhydrazine	UN 2758	101	Arsenical pesticide, liquid, n.o.s.	NA 2783	101	Azphos methyl
UN 2573	102	Thallium chloride	UN 2758	101	Arsenical pesticide, solid, n.o.s.	NA 2783	101	Azphos methyl mixture, liquid
UN 2574	102	Trioctylphosphate	UN 2759	101	Bordeaux arsenite, liquid	NA 2783	101	Chlorpyrifos
UN 2582	101	Ferric chloride solution	NA 2759	101	Bordeaux arsenite, solid	NA 2783	101	Coumaphos
UN 2584	101	Alkanesulfonic acid	UN 2760	101	Arsenical pesticide, liquid, n.o.s.	NA 2783	101	Coumaphos mixture, liquid
NA 2584	101	Dodecylbenzenesulfonic acid	NA 2761	101	Endosulfan mixture, liquid	NA 2783	101	Diazinon
UN 2584	101	Toluene sulfonic acid, liquid	NA 2761	101	Aldrin	NA 2783	101	Dichlorvos
NA 2588	101	Insecticide, dry, n.o.s.	NA 2761	101	Aldrin, cast solid	NA 2783	101	Dichlorvos mixture, dry
UN 2588	102	Pesticides	NA 2761	101	Aldrin mixture, dry	NA 2783	101	Desulfoton
UN 2590	102	Asbestos, white	NA 2761	101	Aldrin mixture, dry, with 65% or less aldrin	NA 2783	101	Desulfoton mixture, dry
UN 2592	101	Dioctyl peroxydicarbonate	NA 2761	101	DDT or	NA 2783	101	Desulfoton mixture, liquid
UN 2592	102	Dioctyl peroxydicarbonate	NA 2761	101	DDT or	NA 2783	101	Ethon
UN 2593	102	Bis-(2-methylbenzoyl)peroxide	NA 2761	101	Dichlorodiphenyltrichloroethane	NA 2783	101	Ethon mixture, dry
UN 2593	101	Di-(2-methylbenzoyl)peroxide	NA 2761	101	Dieldrin	NA 2783	101	Hexaethyl tetraphosphate mixture, dry
UN 2594	101	tert-Butyl peroxydicarbonate	NA 2761	101	Endosulfan	NA 2783	101	Hexaethyl tetraphosphate mixture, liquid
UN 2594	102	tert-Butylperoxydecanoate	NA 2761	101	Endrin	NA 2783	101	Heptachlor
UN 2595	101	Dimyristyl peroxydicarbonate	NA 2761	101	Endrin mixture, liquid	NA 2783	101	Kelthane
UN 2595	102	Dimyristyl peroxydicarbonate	NA 2761	101	Endrin mixture, liquid	NA 2783	101	Kapone
UN 2596	102	3-tert-Butylperoxy-3-phenyl phthalide	NA 2761	101	Endrin mixture, liquid	NA 2783	101	Ludane
UN 2596	101	3-tert-Butyl peroxy-3-phenylphthalide	NA 2761	101	Methoxychlor	NA 2783	101	Methoxychlor
UN 2597	102	Bis-(3,5,5-trimethyl-1,2-dioxolanyl-3)peroxide	UN 2761	101	Organochlorine pesticide, liquid, n.o.s.	NA 2783	101	Methyl parathion
UN 2597	101	Di-(3,5,5-trimethyl-1,2-dioxolanyl-3)peroxide	UN 2761	101	Organochlorine pesticide, solid, n.o.s.	NA 2783	101	Methyl parathion mixture, dry
UN 2598	102	Ethyl-3,3-bis(tert-butylperoxy)butyrate	UN 2761	101	Organochlorine pesticide, solid, n.o.s.	NA 2783	101	Methyl parathion mixture, liquid
UN 2598	101	Ethyl-3,3-di-(tert-butylperoxy)butyrate	UN 2761	101	Organochlorine pesticide, solid, n.o.s.	NA 2783	101	Methyl parathion mixture, liquid, (containing 25% or less methyl parathion)
UN 2602	101	Dichlorodifluoromethane and difluoroethane mixture	NA 2761	101	TDE	NA 2783	101	Mevinphos
UN 2603	102	Cycloheptatriene	NA 2761	101	Toxaphene	NA 2783	101	Mevinphos mixture, dry
UN 2604	102	Boron trifluoride diethyl etherate	NA 2762	101	Aldrin mixture, liquid	NA 2783	101	Mevinphos mixture, liquid
UN 2605	102	Methoxymethyl isocyanate	NA 2762	101	Aldrin mixture, liquid, with 60% or less aldrin	UN 2783	101	Nalox
UN 2606	102	Methyl orthosilicate	NA 2762	101	Chlordane, liquid	UN 2783	101	Naled
UN 2607	102	Acrolein dimer	UN 2762	101	Organochlorine pesticide, liquid, n.o.s.	UN 2783	101	Organic phosphate mixture, Organic phosphate compound mixture, or Organic phosphorus compound mixture, liquid
UN 2608	102	Nitropropanes	UN 2763	101	Triazine pesticide, liquid, n.o.s.	NA 2783	101	Organic phosphate mixture, Organic phosphate compound mixture, or Organic phosphorus compound mixture, solid or dry
UN 2610	102	Triallylamine	UN 2763	101	Triazine pesticide, solid, n.o.s.	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, liquid
UN 2612	102	Methyl propyl ether	UN 2764	101	Triazine pesticide, liquid, n.o.s.	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, solid or dry
UN 2614	102	Methyl alcohol	NA 2765	101	2,4-Dichlorophenoxyacetic acid	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, liquid
UN 2615	102	Ethyl propyl ether	NA 2765	101	2,4-Dichlorophenoxyacetic acid ester	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, solid or dry
UN 2616	102	Trisopropyl borate	UN 2765	101	Phenoxy pesticide, liquid, n.o.s.	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, liquid
UN 2617	102	Methyl cyclohexanol	UN 2765	101	Phenoxy pesticide, solid, n.o.s.	NA 2783	101	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, solid or dry
UN 2618	102	Vinyl Toluene	UN 2765	101	Propargite	UN 2783	101	Organophosphorus pesticide, liquid, n.o.s.
UN 2619	102	Benzyl dimethylamine	NA 2765	101	2,4,5-Trichlorophenoxyacetic acid	UN 2783	101	Organophosphorus pesticide, solid, n.o.s.
UN 2621	102	Acetyl methyl carbonyl	NA 2765	101	2,4,5-Trichlorophenoxyacetic acid amine, ester, or salt	UN 2783	101	Organophosphorus pesticide, liquid, n.o.s.
UN 2622	102	Glyceraldehyde	NA 2765	101	2,4,5-Trichlorophenoxypropionic acid	UN 2783	101	Organophosphorus pesticide, solid, n.o.s.
NA 2626	101	Chloric acid	UN 2766	101	Phenoxy pesticide, liquid, n.o.s.	NA 2783	101	Parathion, liquid
UN 2630	101	Sodium selenite	NA 2767	101	Duron	NA 2783	101	Parathion mixture, dry
UN 2646	101	Hexachlorocyclopentadiene	UN 2767	101	Phenylurea pesticide, liquid, n.o.s.	NA 2783	101	Parathion mixture, liquid
UN 2655	102	Potassium silicofluoride	UN 2767	101	Phenylurea pesticide, solid, n.o.s.	NA 2783	101	Phencaptan
UN 2656	101	Quinoline	UN 2768	101	Phenylurea pesticide, liquid, n.o.s.	NA 2783	101	Tetraethyl pyrophosphate, liquid
UN 2670	102	Cyanuric chloride	UN 2768	101	Phenylurea pesticide, solid, n.o.s.	NA 2783	101	Tetraethyl pyrophosphate mixture, dry
UN 2672	102	Ammonia solutions	UN 2768	101	Phenylurea pesticide, liquid, n.o.s.	NA 2783	101	Tetraethyl pyrophosphate mixture, liquid
NA 2672	101	Ammonium hydroxide	UN 2768	101	Phenylurea pesticide, solid, n.o.s.	UN 2783	101	Tetrachloron
UN 2674	102	Sodium silicofluoride	UN 2768	101	Phenylurea pesticide, liquid, n.o.s.	UN 2784	101	Organophosphorus pesticide, liquid, n.o.s.
NA 2683	101	Ammonium hydroxide solution	UN 2768	101	Benzoc derivative pesticide, liquid, n.o.s.	UN 2785	102	4-Thopentenal
UN 2683	101	Ammonium sulfide solution	UN 2769	101	Benzoc derivative pesticide, solid, n.o.s.	UN 2786	101	Organotin pesticide, liquid, n.o.s.
UN 2686	102	Diethylaminoethanol	UN 2769	101	Benzoc derivative pesticide, solid, n.o.s.	UN 2786	101	Organotin pesticide, solid, n.o.s.
UN 2686	101	Boron tribromide	NA 2769	101	Dicamba	UN 2787	101	Organotin pesticide, liquid, n.o.s.
NA 2686	101	Ammonium bisulfite, solid	NA 2769	101	Dichlobent	UN 2789	101	Acetic acid, glacial
NA 2688	101	Ammonium bisulfite solution	UN 2770	101	Benzoc derivative pesticide, liquid, n.o.s.	UN 2790	101	Acetic acid
NA 2688	101	Calcium hydrogen sulfite solution	UN 2771	101	Dithiocarbamate pesticide, liquid, n.o.s.	NA 2791	101	Aircraft rocket engine
NA 2688	101	Potassium metabisulfite	UN 2771	101	Dithiocarbamate pesticide, solid, n.o.s.	UN 2792	101	Aircraft rocket engine igniter
NA 2688	101	Sodium hydrogen sulfite, solid	UN 2771	101	Dithiocarbamate pesticide, solid, n.o.s.	UN 2793	102	Iron swarf
NA 2688	101	Sodium hydrogen sulfite, solution	UN 2771	101	Dithiocarbamate pesticide, liquid, n.o.s.	UN 2793	101	Metal borings, shavings, turnings, or cuttings
NA 2688	101	Sodium metabisulfite	UN 2771	101	Dithiocarbamate pesticide, liquid, n.o.s.	NA 2794	101	Battery charger with electrolyte (acid) or alkaline battery fluid
UN 2703	101	Isopropyl mercaptan	NA 2771	101	Thiram	NA 2794	101	Battery, electric storage, wet
UN 2704	101	Propyl mercaptan	UN 2772	101	Dithiocarbamate pesticide, liquid, n.o.s.	NA 2794	101	Battery, electric storage, wet, with automobile, auto parts, engine
UN 2706	102	Diethylcarbinol	UN 2773	101	Phthalimide derivative pesticide, liquid, n.o.s.	NA 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2707	102	Dimethyldioxanes	UN 2773	101	Phthalimide derivative pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2708	102	Butoxy	UN 2773	101	Phthalimide derivative pesticide, solid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2709	102	Butyl benzenes	UN 2774	101	Phthalimide derivative pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2710	102	Butyrene	UN 2775	101	Copper based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2711	102	Dibromobenzene	UN 2775	101	Copper based pesticide, solid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2725	101	Nickel nitrate	UN 2776	101	Copper based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2726	101	Zirconium nitrate	UN 2777	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2733	102	Alkylamines and polyamines	UN 2777	101	Mercury based pesticide, solid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2740	102	n-Propyl chloroformate	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2749	102	Tetramethylsilane	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2752	102	1,2-Epoxy-3-ethoxy propene	UN 2778	101	Mercury based pesticide, solid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2755	101	3-Chloroperoxybenzoic acid	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2755	102	m-Chloroperoxybenzoic acid	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2756	101	Organic peroxide, mixture	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid
UN 2756	102	Organic peroxides, mixture	UN 2778	101	Mercury based pesticide, liquid, n.o.s.	UN 2794	101	Battery, electric storage, wet, with containers of electrolyte (acid) or alkaline battery fluid

(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 ...	101	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	Magnelized material
NA 2809 ...	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	Silicofluorides
UN 2812 ...	101	Sodium aluminate, solid
NA 2813 ...	101	Lithium acetylido-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 phosphonous dichloride, anhydrous
NA 2845 ...	101	Methyl phosphonous 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 2876 ...	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	Diisotridecyl 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	Dicetyl 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 hydrosulfide, solution
UN 2923 ...	101	Sodium hydrosulfide, solid
NA 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 solid, 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 carbamate
NA 9084 ...	101	Ammonium carbonate
NA 9085 ...	101	Ammonium chloride
NA 9086 ...	101	Ammonium chromate
NA 9087 ...	101	Ammonium citrate, dibasic
NA 9088 ...	101	Ammonium fluoborate
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	Caplan
NA 9100 ...	101	Chromic sulfate
NA 9101 ...	101	Chromic acetate
NA 9102 ...	101	Chromous 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	Ethylenediaminetetraacetic acid
NA 9118 ...	101	Ferri ammonium citrate
NA 9119 ...	101	Ferri ammonium oxalate
NA 9120 ...	101	Ferri fluoride
NA 9121 ...	101	Ferri 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	Naphthonic 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

BILLING CODE 4910-60-F

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 Amendment 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 15¾ 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.

* * * * *

(b) * * *

(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.

* * * * *

(c) * * *

(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.

(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 11034) 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.