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Working Party on the Transport
of Dangerous Goods

Joint Meeting of Experts on the Regulations
annexed to the European Agreement concerning
the International Carriage of Dangerous Goods
by Inland Waterways (ADN)*
(Sixth session, Geneva, 27-30 May 2002)

RESTRUCTURING OF THE REGULATIONS ANNEXED TO (ADN)

Note by the secretariat**

The secretariat reproduces below Table C of Chapter 3.2 in Part 3 of the restructured ADN and the explanations concerning the table.

* This meeting is organized jointly by the Economic Commission for Europe and the Central Commission for the Navigation of the Rhine.

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3.2.3 Table C

List of dangerous goods accepted for carriage in tank vessels in numerical order

Explanations concerning Table C

As a rule, each row of Table C deals with the substance(s) covered by a specific UN number. However, when substances or articles belonging to the same UN number have different chemical properties, physical properties and/or carriage conditions, several consecutive rows may be used for that UN number or substance identification number.

Each column of Table C is dedicated to a specific subject as indicated in the explanatory notes below. The intersection of columns and rows (cell) contains information concerning the subject treated in that column, for the substance(s) of that row:

- The first four cells identify the substance(s) belonging to that row;
- The following cells give the applicable special provisions, either in the form of complete information or in coded form. The codes cross-refer to detailed information that is to be found in the numbers indicated in the explanatory notes below. An empty cell means either that there is no special provision and that only the general requirements apply, or that the carriage restriction indicated in the explanatory notes is in force.

The applicable general requirements are not referred to in the corresponding cells.

Explanatory notes for each column:

Column (1) United Nations number/substance identification number

Contains the UN number or substance identification number:

- of the dangerous substance if the substance has been assigned its own specific UN number or substance identification number, or
- of the generic or n.o.s. entry to which the dangerous substances not mentioned by name shall be assigned in accordance with the criteria (“decision trees”) of Part 2.

Column (2) Name and description

Contains, in upper case characters, the name of the substance or, if the substance has been assigned its own specific UN number or substance identification number, or of the generic or n.o.s. entry to which it has been assigned in accordance with the

criteria (“decision trees”) of Part 2. This name shall be used as the proper shipping name or, when applicable, as part of the proper shipping name (see 3.1.2 for further details on the proper shipping name).

A descriptive text in lower case characters is added after the proper shipping name to clarify the scope of the entry if the classification and/or carriage conditions of the substance may be different under certain conditions.

Column (3a) Class

Contains the number of the class, whose heading covers the dangerous substance. This class number is assigned in accordance with the procedures and criteria of Part 2.

Column (3b) Classification code

Contains the classification code of the dangerous substance.

- For dangerous substances of Class 2, the code consists of a number and hazardous property group, which are explained in 2.2.2.1.2 and 2.2.2.1.3.
- For dangerous substances of Classes 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 8 and 9, the codes are explained in 2.2.x.1.2.¹

Column (4) Packing group

Contains the packing group number(s) (I, II or III) assigned to the dangerous substance. These packing group numbers are assigned on the basis of the procedures and criteria of Part 2. Certain substances are not assigned to packing groups.

Column (5) Hazards

This column contains information concerning the hazards of the dangerous substance. They are included on the basis of the danger labels in Table A, column (5). In the case of chemically unstable substance, the code “unst” is added to the information.

Column (6) Type of tank vessel

Contains the type of tank vessel, Type G, C or N

¹ *x = the Class number of the dangerous substance or article, without dividing point if applicable.*

Column (7) Cargo tank design

Contains information concerning the cargo tank design:

1. pressure cargo tank
2. closed cargo tank
3. open cargo tank with flame-arrester
4. open cargo tank

Column (8) Cargo tank type

Contains information concerning the cargo tank type:

1. independent cargo tank
2. integral cargo tank
3. cargo tank with walls distinct from the outer hull

Column (9) Cargo tank equipment

Contains information concerning the cargo tank equipment:

1. refrigeration system
2. heating system
3. water-spray system

Column (10) Opening pressure of high-velocity vent valve in kPa

Contains information concerning the opening pressure of the high-velocity vent valve in kPa.

Column (11) Maximum degree of filling (%)

Contains information concerning the maximum degree of filling of cargo tanks as a percentage.

Column (12) Relative density

Contains information concerning the relative density of the substance at 20° C. Data concerning density are for information only.

Column (13) Type of sampling device

1. closed sampling device
2. partly closed sampling device
3. open sampling device

Column (14) Pump-room below deck permitted

Contains information as to whether a pump-room below deck is permitted:

Yes pump-room below deck permitted
No pump-room below deck not permitted

Column (15) Temperature class

Contains the temperature class of the substance.

Column (16) Explosion group

Contains the explosion group of the substance.

Column (17) Protection against explosions required

Contains a code referring to protection against explosions:

+ protection against explosions required
- protection against explosions not required

Column (18) Equipment required

This column contains alphanumeric codes for the equipment required for the carriage of the dangerous substance (see 8.1.5).

Column (19) Number of cones/blue lights

This column contains the number of cones/blue lights which should constitute the marking of the vessel when this dangerous substance or article is carried.

Column (20) Additional requirements or remarks

This column contains the additional requirements or remarks applicable to the vessel. These are:

1. Anhydrous ammonia is liable to cause stress crack corrosion in cargo tanks and cooling systems constructed of carbon-manganese steel or nickel steel.

In order to minimize the risk of stress crack corrosion the following measures shall be taken:

- (a) Where carbon-manganese steel is used, cargo tanks, pressure vessels of cargo refrigeration systems and cargo piping shall be constructed of fine-grained steel having a specified minimum yield stress of not more than 355 N/mm^2 . The actual yield stress shall not exceed 440 N/mm^2 . In addition, one of the following construction or operational measures shall be taken:
 - 1. Material with a low tensile strength ($R_m < 410 \text{ N/mm}^2$) shall be used; or
 - 2. Cargo tanks, etc., shall undergo a post-weld heat treatment for the purpose of stress relieving; or
 - 3. The transport temperature shall preferably be maintained close to the evaporation temperature of the cargo of -33° C , but in no case above -20° C ; or
 - 4. Ammonia shall contain not less than 0.1% water, by mass.
- (b) When carbon-manganese steel with yield stress values higher than those referred to in (a) above is used, the completed tanks, pipe sections, etc., shall undergo a post-weld heat treatment for the purpose of stress relieving.
- (c) Pressure vessels of the cargo refrigeration systems and the piping systems of the condenser of the cargo refrigeration system constructed of carbon-manganese steel or nickel steel shall undergo a post-weld heat treatment for the purpose of stress relieving.
- (d) The yield stress and the tensile strength of welding consumables may exceed only by the smallest value possible the corresponding values of the tank and piping material.
- (e) Nickel steels containing more than 5% nickel and carbon-manganese steel which are not in compliance with the requirements of (a) and (b) above may not be used for cargo tanks and piping systems intended for the transport of this substance.
- (f) Nickel steels containing not more than 5% nickel may be used if the transport temperature is within the limits referred to in (a) above.

- (g) The concentration of oxygen dissolved in the ammonia shall not exceed the values given in the table below:

t in °C	O ₂ in %, by volume
-30 and below	0.90
-20	0.50
-10	0.28
0	0.16
10	0.10
20	0.05
30	0.03

2. Before loading, air shall be removed and subsequently kept away to a sufficient extent from the cargo tanks and the accessory cargo piping by the means of inert gas (see also 7.2.4.18).
3. Arrangements shall be made to ensure that the cargo is sufficiently stabilized in order to prevent a reaction at any time during carriage. The transport document shall contain the following additional particulars:
 - (a) Name and amount of inhibitor added;
 - (b) Date on which inhibitor was added and expected duration of effectiveness under normal conditions;
 - (c) Any temperature limits having an effect on the inhibitor.

When stabilization is ensured solely by blanketing with an inert gas it is sufficient to mention the name of the inert gas used in the transport document.

When stabilization is ensured by another measurement, e.g. the special purity of the substance, this measurement shall be mentioned in the transport document.

4. The substance shall not be allowed to solidify; the transport temperature shall be maintained above the melting point. In instances where cargo heating installations are required, they must be so designed that polymerization through heating is not possible in any part of the cargo tank. Where the temperature of steam-heated coils could give rise to overheating, lower-temperature indirect heating systems shall be provided.
5. This substance is liable to clog the vapour pipe and its fittings. Careful surveillance should be ensured. If a close-type tank vessel is required for the carriage of this substance the vapour pipe shall conform to 9.3.2.22.5 (a) (i), (ii), (iv), (v), (b), (c) or (d) or to 9.3.3.22.5 (a) (i), (ii), (iv), (v), (b),

(c) or (d). This requirement does not apply when the cargo tanks are inerted in accordance with 7.2.4.18 nor when protection against explosions is not required in column (17) and when flame-arresters have not been installed.

6. When external temperatures are below or equal to that indicated in column (20), the substance may only be carried in tank vessels meeting the following conditions:

The tank vessels shall be equipped with a cargo heating system conforming to 9.3.2.42 or 9.3.3.2. The arrangement of heating coils inside the cargo tanks instead of a cargo heating system may be sufficient (possibility of heating the cargo).

In addition, in the event of carriage in a closed-type vessel, if the tank vessel:

- is fitted out in accordance with 9.3.2.22.5 (a) (i) or (d) or 9.3.3.22.5 (a) (i) or (d), it shall be equipped with pressure/vacuum valves capable of being heated,

or

- is fitted out in accordance with 9.3.2.22.5 (a) (ii), (v), (b) or (c) or 9.3.3.22.5 (a) (ii), (v), (b) or (c), it shall be equipped with heatable vapour pipes and heatable pressure/vacuum valves,

or

- is fitted out in accordance with 9.3.2.22.5 (a) (iii) or (iv) or 9.3.3.22.5 (a) (iii) or (iv), it shall be equipped with heatable vapour pipes and with heatable pressure/vacuum valves and heatable flame-arresters.

The temperature of the vapour pipes, pressure/vacuum valves and flame-arresters shall be kept at least above the melting point of the substance.

7. If a closed-type tank vessel is required to carry this substance or if the substance is carried in a closed-type tank vessel, if this vessel:

- is fitted out in accordance with 9.3.2.22.5 (a) (i) or (d) or 9.3.3.22.5 (a) (i) or (d), it shall be equipped with heatable pressure/vacuum valves,

or

- is fitted out in accordance with 9.3.2.22.5 (a) (ii), (v), (b) or (c) or 9.3.3.22.5 (a) (ii), (v), (b) or (c), it shall be equipped with heatable vapour pipes and heatable pressure/vacuum valves,
or
- is fitted out in accordance with 9.3.2.22.5 (a) (iii) or (iv) or 9.3.3.22.5 (a) (iii) or (iv), it shall be equipped with heatable vapour pipes and with heatable pressure/vacuum valves and heatable flame-arresters.

The temperature of the vapour pipes, pressure/vacuum valves and flame-arresters shall be kept at least above the melting point of the substance.

8. Double-hull spaces, double bottoms and heating coils shall not contain any water.
9.
 - (a) While the vessel is underway, an inert-gas pad shall be maintained in the ullage space above the liquid level.
 - (b) Cargo piping and vent lines shall be independent of the corresponding piping used for other cargoes.
 - (c) Safety valves shall be made of stainless steel.
10. *Not relevant*
11.
 - (a) Stainless steel of type 416 or 442 and cast iron shall not be used for cargo tanks and pipes for loading and unloading.
 - (b) The cargo may be discharged only by deep-well pumps or pressure inert gas displacement. Each cargo pump shall be arranged to ensure that the substance does not heat significantly if the pressure discharge line from the pump is shut off or otherwise blocked.
 - (c) The cargo shall be cooled and maintained at temperatures below 30° C.
 - (d) The safety valves shall be set at a pressure of not less than 550 kPa (5.5 bar) gauge pressure. Special authorization is required for the maximum setting pressure.
 - (e) While the vessel is underway, a nitrogen pad shall be maintained in the ullage space above the cargo [see also 7.2.4.18]. An automatic nitrogen supply system shall be installed to prevent the pressure from falling below 7 kPa (0.07 bar) gauge within the cargo tank in the event of a cargo temperature fall due to ambient temperature conditions or to some other reason. In order to

satisfy the demand of the automatic pressure control a sufficient amount of nitrogen shall be available on board. Nitrogen of a commercially pure quality of 99.9%, by volume, shall be used for padding. A battery of nitrogen cylinders connected to the cargo tanks through a pressure reduction valve satisfies the intention of the expression “automatic” in this context.

The required nitrogen pad shall be such that the nitrogen concentration in the vapour space of the cargo tank is not less than 45% at any time.

- (f) Before loading and while the cargo tank contains this substance in a liquid or gaseous form, it shall be inerted with nitrogen.
 - (g) The water-spray system shall be fitted with remote-control devices which can be operated from the wheelhouse or from the control station, if any.
 - (h) Transfer arrangements shall be provided for emergency transfer of ethylene oxide in the event of an uncontrollable self-reaction.
12. (a) The substance shall be acetylene free.
- [(b) Cargo tanks which have not undergone appropriate cleaning shall not be used for the carriage of these substances if one of the previous three cargoes consisted of a substance known to promote polymerization, such as:
1. mineral acids (e.g. sulphuric acid, hydrochloric acid, nitric acid);
 2. carboxylic acids and anhydrides (e.g. formic acid, acetic acid);
 3. halogenated carboxylic acids (e.g. chloroacetic acid);
 4. sulphonic acids (e.g. benzen sulphonic acid);
 5. caustic alkalis (e.g. sodium hydroxide, potassium hydroxide);
 6. ammonia and ammonia solutions;
 7. amines and amine solutions;
 8. oxidizing substances.]

- (c) [Before loading, cargo tanks and their piping shall be efficiently and thoroughly cleaned so as to eliminate all traces of previous cargoes, except when the last cargo was constituted of propylene oxide or a mixture of ethylene oxide and propylene oxide. Special precautions shall be taken in the case of ammonia in cargo tanks built of steel other than stainless steel.]
- (d) [In all cases the efficiency of the cleaning of cargo tanks and their piping shall be monitored by means of appropriate tests or inspections to check that no trace of acid or alkaline substance remains that could present a danger in the presence of these substances.]
- (e) The cargo tanks shall be entered and inspected prior to each loading of these substances to ensure freedom from contamination, heavy rust deposits or visible structural defects.

When these cargo tanks are in continuous service for these substances, such inspections shall be performed at intervals of not more than two and a half years.

- (f) [Cargo tanks which have contained these substances may be reused for other cargoes once they and their piping have been thoroughly cleaned by washing and flushing with an inert gas.]
- (g) [Substances shall be loaded and unloaded in such a way that there is no release of gas into the atmosphere. If gas is returned to the shore installation during loading, the gas return system connected to the tank containing that substance] shall be independent from all other cargo tanks.
- (h) During discharge operations, the pressure in the cargo tanks shall be maintained above 7 kPa (0.07 bar) gauge.
- (i) The cargo shall be discharged only by deep-well pumps, hydraulically operated submerged pumps or pressure inert gas displacement. Each cargo pump shall be arranged to ensure that the substance does not heat significantly if the pressure discharge line from the pump is shut off or otherwise blocked.
- (j) Each cargo tank carrying these substances shall be ventilated by a system independent from the ventilation systems of other cargo tanks carrying other substances.

- (k) [Loading pipes used for these substances shall be marked as follows:

“To be used only for the transfer of alkylene oxide.”]

- (l) Cargo tanks, cofferdams, double-hull spaces, double bottoms, cargo tank spaces [and service spaces in the cargo area (?)] adjacent to a cargo tank carrying this substance shall either contain compatible cargo (the substances mentioned under (b) are examples of substances considered to be incompatible) or be inerted with an appropriate inert gas. Spaces so inerted shall be monitored for these substances and oxygen. The oxygen content shall be maintained below 2%, by volume. Portable measuring devices are permitted.
- (m) No air shall be allowed to enter the cargo pumps and cargo piping system while these substances are contained within the system.
- (n) [Before the shore connections are disconnected, piping containing liquids or gas shall be depressurised at the shore link by means of appropriate devices.]
- (o) The piping system for cargo tanks to be loaded with these substances shall be separate from piping system for all other cargo tanks, including empty cargo tanks. If the piping system for the cargo tanks to be loaded is not independent, separation shall be accomplished by the removal of spool pieces, shut-off valves, other pipe sections and by fitting blank flanges at these locations. The required separation applies to all liquid pipes and vapour vent lines and any other connections which may exist such as common inert gas supply lines.
- (p) These substances may be carried only in accordance with cargo handling plans that have been approved by a competent authority.

Each loading arrangement shall be shown on a separate cargo handling plan. Cargo handling plans shall show the entire cargo piping system and the locations for installations of blank flanges needed to meet the above piping separation requirements. A copy of each cargo handling plan shall be kept on board. Reference to the approved cargo handling plans shall be included in the certificate of approval.

- (q) [Before loading of these substances and before carriage is resumed a qualified person approved by the competent authority shall certify that the prescribed separation of the piping has been effected; this certificate shall be kept on board. Each connection between a blank flange and a shut-off valve in the piping shall be fitted with a sealed wire to prevent the flange from being disassembled inadvertently.]
- (r) During the voyage, the cargo shall be covered with nitrogen. An automatic nitrogen make-up system shall be installed to prevent the cargo tank pressure from falling below 7 kPa (0.07 bar) gauge in the event of a cargo temperature fall due to ambient temperature conditions or to some other reason. Sufficient nitrogen shall be available on board to satisfy the demand of automatic pressure control. Nitrogen of commercially pure quality of 99.9%, by volume, shall be used for padding. A battery of nitrogen cylinders connected to the cargo tanks through a pressure reduction valve satisfies the intention of the expression “automatic” in this context.
- (s) The vapour space of the cargo tanks shall be checked before and after each loading operation to ensure that the oxygen content is 2%, by volume, or less.

[(t) Loading flow

$$\text{The loading flow } (L_R) = 3600 \bullet U/t \text{ (m}^3/\text{h)}$$

In this formula

U = the free volume (m³) during loading for the activation of the overflow prevention system;

T = the time required between the activation of the overflow prevention system and the complete stop of the flow of cargo into the cargo tank;

The time is the sum of the partial times needed for successive operations, e.g. reaction time of the service personnel, the time needed to stop the pumps and the time needed to close the shut-off valves;

The loading flow shall also take account of the design pressure of the piping system.]

13. If no stabilizer is supplied or if the supply is inadequate, the oxygen content in the vapour phase shall not exceed 0.1%. Overpressure must be constantly maintained in cargo tanks. This requirement applies also to voyages on ballast or empty with uncleaned cargo tanks between cargo transport operations.
14. The following substances may not be carried under these conditions:
 - substances with self-ignition temperatures $\leq 200^{\circ}$ C;
 - mixtures containing halogenated hydrocarbons;
 - mixtures containing more than 10% benzene;
 - substances and mixtures carried in a stabilized state.
15. Provision shall be made to ensure that alkaline or acidic substances such as sodium hydroxide solution or sulphuric acid do not contaminate this cargo.
16. If there is a possibility of a dangerous reaction such as polymerization, decomposition, thermal instability or evolution of gases resulting from local overheating of the cargo in either the cargo tank or associated piping system, this cargo shall be loaded and carried adequately segregated from other substances the temperature of which is sufficiently high to initiate such reaction. Heating coils inside cargo tanks carrying this substance shall be blanked off or secured by equivalent means.
17. The melting point of the cargo shall be shown in the transport documents.
18. *Not relevant*
19. Provision shall be made to ensure that the cargo does not come into contact with water. The following additional requirements apply:

Carriage of the cargo is not permitted in cargo tanks adjacent to slop tanks or cargo tanks containing ballast water, slops or any other cargo containing water. Pumps, piping and vent lines connected to such tanks shall be separated from similar equipment of tanks carrying these substances. Pipes from slop tanks or ballast water pipes shall not pass through cargo tanks containing this cargo unless they are encased in a tunnel.

20. The maximum permitted transport temperature given in column (20) shall not be exceeded.
21. *Not relevant*
22. The relative density of the cargo shall be shown in the transport document.
23. The instrument for measuring the pressure of the vapour phase in the cargo tank shall activate the alarm when the internal pressure reaches 40 kPa. The water-spray system shall immediately be activated and remain in operation until the internal pressure drops to 30 kPa.
- [24. Substances having a flash-point above 61° C which are handed over for carriage or which are carried heated within a limiting range of 15 K below their flash-point shall be carried under the conditions of substance number 9001.]
25. Type 3 cargo tank may be used for the carriage of this substance provided that the construction of the cargo tank has been accepted by a recognized classification society for the maximum permitted transport temperature.
26. Type 2 cargo tank may be used for the carriage of this substance provided that the construction of the cargo tank has been accepted by a recognized classification society for the maximum permitted transport temperature.
- [27. The requirements of 3.1.2.6.1 are applicable.
28. (a) When UN 2448, molten sulphur, is carried, the forced ventilation of the cargo tanks shall be brought into service at latest when the concentration of hydrogen sulphide reaches 1.0%, by volume.
- (b) When during the carriage of UN 2448, molten sulphur, the concentration of hydrogen sulphide exceeds 1.85%, the boat master shall immediately notify the nearest competent authority.

When a significant increase in the concentration of hydrogen sulphide in a hold space leads it to be supposed that the sulphur has leaked, the cargo tanks shall be unloaded as rapidly as possible. A new load may only be taken on board once the authority which issued the certificate of approval has carried out a further inspection.

- (c) When UN 2448, molten sulphur, is carried, the concentration of sulphur sulphide shall be measured in the vapour phase of the cargo tanks and concentrations of sulphur dioxide and hydrogen sulphide in the hold spaces.
 - (d) The measurements prescribed in (c) shall be made every eight hours. The results of the measurements shall be recorded in writing.
29. When particulars concerning the vapour pressure or the boiling point are given in column (2), the relevant information shall be added to the proper shipping name in the transport document, e.g.
- UN 1224 KETONES, LIQUID, N.O.S., $110 \text{ kPa} < \text{vp} \leq 175 \text{ kPa}$ or
- UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., boiling point $\leq 60^\circ \text{ C}$
30. When these substances are carried, the hold spaces of open type N tank vessels may contain auxiliary equipment.
31. When these substances are carried, the vessel shall be equipped with a rapid blocking valve placed directly on the shore connection.]

UN No. or substance identification No.	Name and description	Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks	
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1005	AMMONIA, ANHYDROUS	2	2TC		2.3+8+ 2.1	G	1	1	3		91		1		T1	II A	yes	PP, EP, EX, TOX, A	2	1;31
1010	1,2 BUTADIENE, STABILIZED	2	2F		2.1+unst	G	1	1			91		1	yes	T2	II B ⁴⁾	yes	PP, EX, A	1	2 ; 3 ; 31
1010	1,3 BUTADIENE STABILIZED	2	2F		2.1+unst.	G	1	1			91		1	yes	T2	II B	yes	PP, EX, A	1	2 ; 3 ; 31
1010	MIXTURES OF 1,3 - BUTADIENE AND HYDROCARBONS, STABILIZED, HAVING A VAPOUR PRESSURE AT 70° C NOT EXCEEDING 1.1 Mpa (11 BAR) AND A DENSITY AT 50° C NOT LOWER THAN 0.525 kg/l	2	2F		2.1+unst.	G	1	1			91		1	yes	T2	II B	yes	PP, EX, A	1	2 ; 3 ; 31
1011	BUTANE	2	2F		2.1	G	1	1			91		1	yes	T2	II A	yes	PP, EX, A	1	31
1012	1-BUTYLENE	2	2F		2.1	G	1	1			91		1	yes	T2	II A	yes	PP, EX, A	1	31
1020	CHLOROPENTAFLUOROETHANE (REFRIGERANT GAS R 115)	2	2A		2.2	G	1	1			91		1	yes			no	PP	0	31
1030	1,1 - DIFLUOROETHANE (REFRIGERANT R GAS R 152 (a))	2	2F		2.1	G	1	1			91		1	yes	T1	II A	yes	PP, EX, A	1	31
1033	DIIMETHYL ETHER	2	2F		2.1	G	1	1			91		1	yes	T3	II B	yes	PP, EX, A	1	31
1038	ETHYLENE, REFRIGERATED LIQUID	2	3F		2.1	G	1	1	1		95	0.57	1	no	T1	II B	yes	PP, EX, A	1	31

UN No. or substance identification No.	Name and description	Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks	
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1040	ETHYLENE OXIDE WITH NITROGEN UP TO A TOTAL PRESSURE OF Mpa (10 BAR) AT 50° C	2	2TF		2.3+2.1	G	1	1		91		1	no	T2	II B	yes	PP, EP, EX, TOX, A	2	2; 3; 11; 31	
1055	ISOBUTYLENE	2	2F		2.1	G	1	1		91		1	yes	T2 ¹⁾	II A	yes	PP, EX, A	1	31	
1063	METHYL CHLORIDE (REFRIGERANT GAS R 40)	2	2F		2.1	G	1	1		91		1	yes	T1	II A	yes	PP, EX, A	1	31	
1077	PROPYLENE	2	2F		2.1	G	1	1		91		1	yes	T1	II A	yes	PP, EX, A	1	31	
1083	TRIMETHYLAMINE, ANHYDROUS	2	2F		2.1	G	1	1		91		1	yes	T4	II A	yes	PP, EX, A	1	31	
1086	VINYL CHLORIDE, STABILIZED	2	2F		2.1+unst.	G	1	1		91		1	yes	T2	II A	yes	PP, EX, A	1	2; 3; 13; 31	
1088	ACETAL	3	F1	II	3	N	2	2		10	97	0.83	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	
1089	ACETALDEHYDE (ethanal)	3	F1	I	3	C	1	1		95	0.78	1	yes	T4	II A	yes	PP, EX, A	1		
1090	ACETONE	3	F1	II	3	N	2	2		10	97	0.79	3	yes	T1	II A	yes	PP, EX, A	1	
1092	ACROLEINE, STABILIZED	6.1	TF1	I	6.1+3+unst.	C	2	2	3	50	95	0.84	1	no	T3 ³⁾	II B	yes	PP, EP, EX, TOX, A	2	2; 3; 5; 23
1093	ACRYLONITRILE, STABILIZED	3	FT1	I	3+6.1+unst.	C	2	2	3	50	95	0.8	1	no	T1	II B	yes	PP, EP, EX, TOX, A	2	3; 5; 23

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1098	ALLYL ALCOHOL	6.1	TF1	I	6.1+3	C	2	2		40	95	0.85	1	no	T2	II B	yes	PP, EP, EX, TOX, A	2	
1100	ALLYL CHLORIDE	3	FT1	I	3+6.1	C	2	2	3	50	95	0.94	1	no	T2	II A	yes	PP, EP, EX, TOX, A	2	23
1105	PENTANOLS (n-pentanol)	3	F1	III	3	N	3	2			97	0.81	3	yes	T2	II A	yes	PP, EX, A	0	
1106	AMYLAMINE (n-amylamine)	3	FC	II	3+8	C	2	2		40	95	0.76	2	yes	T4 ³⁾	II A ⁷⁾	yes	PP, EP, EX, A	1	
1107	AMYL CHLORIDES (1-chloropentane)	3	F1	II	3	C	2	2		40	95	0.88	2	yes	T3	II A	yes	PP, EX, A	1	
1107	AMYL CHLORIDES (1-chloro-3-methylbutane)	3	F1	II	3	C	2	2		45	95	0.89	2	yes	T3	II A	yes	PP, EX, A	1	
1107	AMYL CHLORIDES (2-chloro-2-methylbutane)	3	F1	II	3	C	2	2		50	95	0.87	2	yes	T2	II A	yes	PP, EX, A	1	
1107	AMYL CHLORIDES (1-chloro-2,2-dimethylpropane)	3	F1	II	3	C	2	2		50	95	0.87	2	yes	T3 ²⁾	II A	yes	PP, EX, A	1	
1107	AMYL CHLORIDES (...)	3	F1	II	3	C	1	1			95	0.9	1	yes	T3 ²⁾	II A	yes	PP, EX, A	1	27
1108	1-PENTENE (n-amylene)	3	F1	I	3	N	1	1			97	0.64	1	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	
1114	BENZENE	3	F1	II	3	C	2	2	3	50	95	0.88	2	yes	T1	II A	yes	PP, EP, EX, TOX, A	1	6: +10° C; 17; 23

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1120	BUTANOLS (n-butyl alcohol)	3	F1	II	3	N	2	2	2	10	97	0.79	3	yes	T1	II A ⁷⁾	yes	PP, EX, A	1	7; 17
1120	BUTANOLS (secondary butyl alcohol)	3	F1	III	3	N	3	2			97	0.81	3	yes	T2	II B ⁷⁾	yes	PP, EX, A	0	
1120	BUTANOLS (tertiary butyl alcohol)	3	F1	III	3	N	2	2	2	10	97	0.81	3	yes	T2	II B	yes	PP, EX, A	0	
1123	BUTYL ACETATES sec-butyl acetate)	3	F1	II	3	N	2	2		10	97	0.86	3	yes	T2	II A ⁷⁾	yes	PP, EX, A	1	
1123	BUTYL ACETATES (see-butyl acetate)	3	F1	III	3	N	3	2			97	0.86	3	yes	T2	II A	yes	PP, EX, A	0	
1125	n-BUTYLAMINE	3	FC	II	3+8	C	2	2	3	50	95	0.75	2	yes	T2	II A	yes	PP, EP, EX, A	1	23
1127	CHLOROBUTANES (1-chlorobutane)	3	F1	II	3	C	2	2	3	50	95	0.89	2	yes	T3	II A	yes	PP, EX, A	1	23
1127	CHLOROBUTANES (2-chlorobutane)	3	F1	II	3	C	2	2	3	50	95	0.87	2	yes	T4 ³⁾	II A	yes	PP, EX, A	1	23
1127	CHLOROBUTANES (2-chloro-2-methylpropane)	3	F1	II	3	C	2	2	3	50	95	0.88	2	yes	T4 ³⁾	II A	yes	PP, EX, A	1	23
1127	CHLOROBUTANES (1-chloro-2-methylpropane)	3	F1	II	3	C	2	2	3	50	95	0.84	2	yes	T1	II A	yes	PP, EX, A	1	23
1127	CHLOROBUTANES (...)	3	F1	II	3	C	1	1			95	0.89	1	yes	T4 ³⁾	II A	yes	PP, EX, A	1	27
1129	BUTYRALDEHYDE (n-butyraldehyde)	3	F1	II	3	C	2	2	3	50	95	0.8	2	yes	T4	II A	yes	PP, EX, A	1	15; 23
1131	CARBON DISULPHIDE (carbon sulphide)	3	FT1	I	3+6.1	C	2	2	3	50	95	1.26	1	no	T6	II C	yes	PP, EP, EX, TOX, A	2	2; 9; 23

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1134	CHLOROBENZENE (phenyl chloride)	3	F1	III	3	C	2	2		30	95	1.11	2	yes	T1	II A ⁸⁾	yes	PP, EX, A	0	
1135	ETHYLENE CHLOROHYDRIN (2-chloroethanol)	6.1	TF1	I	6.1+3	C	2	2		30	95	1.21	1	no	T2	II A ⁸⁾	yes	PP, EP, EX, TOX, A	2	
1143	CROTONALDEHYDE, STABILIZED	6.1	TF1	I	6.1+3+unst.	C	2	2		40	95	0.85	1	no	T3	II B	yes	PP, EP, EX, TOX, A	2	3; 5; 15
1145	CYCLOHEXANE	3	F1	II	3	N	2	2		10	97	0.78	3	yes	T3	II A	yes	PP, EX, A	1	6: +11° C; 17
1146	CYCLOPENTANE	3	F1	II	3	N	2	2		10	97	0.75	3	yes	T2	II A	yes	PP, EX, A	1	
1150	1,2-DICHLOROETHYLENE (cis)	3	F1	II	3	C	2	2	3	50	95	1.28	2	yes	T2 ¹⁾	II A	yes	PP, EX, A	1	23
1150	1,2-DICHLOROETHYLENE (trans)	3	F1	II	3	C	2	2	3	50	95	1.26	2	yes	T2	II A	yes	PP, EX, A	1	23
1153	ETHYLENE GLYCOL DIETHYL ETHER	3	F1	III	3	N	3	2			97	0.84	3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	
1154	DIETHYLAMINE	3	FC	II	3+8	C	2	2	3	50	95	0.7	2	yes	T2	II A	yes	PP, EP, EX, A	1	23
1155	DIETHYL ETHER (ETHYL ETHER)	3	F1	I	3	C	1	1			95	0.71	1	yes	T4	II B	yes	PP, EX, A	1	
1157	DIISOBUTYL KETONE	3	F1	III	3	N	3	2			97	0.81	3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	
1159	DIISOPROPYL ETHER	3	F1	II	3	N	2	2		10	97	0.72	3	yes	T2	II A	yes	PP, EX, A	1	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1160	DIMETHYLAMINE AQUEOUS SOLUTION	3	FC	II	3+8	C	2	2	3	50	95	0.82	2	yes	T2	II B ⁴⁾	yes	PP, EP, EX, A	1	23
1163	DIMETHYLHYDRAZINE UNSYMMETRICAL	6.1	TFC	I	6.1+3+8	C	2	2	3	50	95	0.78	1	no	T3	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23
1165	DIOXANE	3	F1	II	3	N	2	2		10	97	1.03	3	yes	T2	II B	yes	PP, EX, A	1	6: +14° C; 17
1167	DIVINYL ETHER, STABILIZED	3	F1	I	3+unst.	C	1	1			95	0.77	1	yes	T2	II B ⁷⁾	yes	PP, EX, A	1	2; 3
1170	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) aqueous solution with more than 24% and not more than 70% alcohol by volume	3	F1	II	3	N	2	2		10	97	0.79 - 0.87	3	yes	T2	II B	yes	PP, EX, A	1	
1170	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) aqueous solution with more than 70% alcohol by volume	3	F1	II	3	N	2	2		10	97	0.79 - 0.87	3	yes	T2	II B	yes	PP, EX, A	1	
1170	ETHANOL (ETHYL ALCOHOL)	3	F1	III	3	N	3	2			97	0.87 - 0.96	3	yes	T2	II B	yes	PP, EX, A	0	
1171	ETHYLENE GLYCOL MONOETHYL ETHER	3	F1	III	3	N	3	2			97	0.93	3	yes	T3	II B	yes	PP, EX, A	0	
1172	ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	3	F1	III	3	N	3	2			97	0.98	3	yes	T2	II A	yes	PP, EX, A	0	
1173	ETHYL ACETATE	3	F1	II	3	N	2	2		10	97	0.9	3	yes	T1	II A	yes	PP, EX, A	1	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1175	ETHYLBENZENE	3	F1	II	3	N	2	2		10	97	0.87	3	yes	T2	II B	yes	PP, EX, A	1	
1177	2-ETHYLBUTYL ACETATE	3	F1	III	3	N	3	2			97	0.88	3	yes	T3	II A	yes	PP, EX, A	0	
1184	ETHYLENE DICHLORIDE (1,2 dichloroethane)	3	FT1	II	3+6.1	C	2	2		50	95	1.25	2	no	T2	II A	yes	PP, EP, EX, TOX, A	2	
1188	ETHYLENE GLYCOL MONOETHYL ETHER	3	F1	III	3	N	3	2			97	0.97	3	yes	T3	II B	yes	PP, EX, A	0	
1191	OCTYL ALDEHYDES (2-ethylcapronaldehyde)	3	F1	III	3	C	2	2		30	95	0.82	2	yes	T4	II A	yes	PP, EX, A	0	
1191	OCTYL ALDEHYDES (n-octaldehyde)	3	F1	III	3	N	3	2			97	0.82	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	0	
1193	ETHYL METHYL KETONE (METHYL ETHYLKETONE)	3	F1	II	3	N	2	2		10	97	0.8	3	yes	T1	II A	yes	PP, EX, A	1	
1198	FORMALDEHYDE SOLUTION, INFLAMMABLE	3	FC	III	3+8	N	3	2			97	1.09	3	yes	T2	II B	yes	PP, EP, EX, A	0	
1199	FURALDEHYDES (a-furfuraldehyde) or furfuraldehydes (a-furfurylaldehyde)	6.1	TF1	II	6.1+3	C	2	2		25	95	1.16	2	no	T3 ²⁾	II B	yes	PP, EP, EX, TOX, A	2	15
1202	GAS OIL or DIESEL FUEL or HEATING OIL LIGHT	3	F1	III	3	N	4	2			97	0.74	3	yes			no	PP	0	
1203	MOTOR SPIRIT or GASOLINE or PETROL	3	F1	II	3	N	2	2		10	97	0.68 - 0.72 ¹⁰⁾	3	yes	T3	II A	yes	PP, EX, A	1	14

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1203	MOTOR SPIRIT or GASOLINE or PETROL, with more than 10% benzen boiling point ≤ 60° C	3	F1	II	3	C	1	1			95		1	yes	T3	II A	yes	PP, EX, A	1	29
1203	MOTOR SPIRIT or GASOLINE or PETROL with more than 10% benzen 60° C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	3	50	95		2	yes	T3	II A	yes	PP, EX, A	1	23; 29
1203	MOTOR SPIRIT or GASOLINE or PETROL with more than 10% benzen 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2		50	95		2	yes	T3	II A	yes	PP, EX, A	1	29
1203	MOTOR SPIRIT or GASOLINE or PETROL with more than 10% benzen boiling point > 115° C	3	F1	II	3	C	2	2		35	95		2	yes	T3	II A	yes	PP, EX, A	1	29
1206	HEPTANES (n-heptane)	3	F1	II	3	N	2	2		10	97	0.68	3	yes	T3	II A	yes	PP, EX, A	1	
1208	HEXANES (n-hexane)	3	F1	II	3	N	2	2		10	97	0.66	3	yes	T3	II A	yes	PP, EX, A	1	
1212	ISOBUTANOL (ISOBUTYL ALCOHOL)	3	F1	III	3	N	3	2			97	0.8	3	yes	T2	II A	yes	PP, EX, A	0	
1213	ISOBUTYL ACETATE	3	F1	II	3	N	2	2		10	97	0.87	3	yes	T2	II A ⁷⁾	yes	PP, EX, A	1	
1214	ISOBUTYLAMINE	3	FC	II	3+8	C	2	2	3	50	95	0.73	2	yes	T2	II A	yes	PP, EP, EX, A	1	23

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1216	ISOOCTENE	3	F1	II	3	N	2	2		10	97	0.73	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	
1218	ISOPRENE, STABILIZED	3	F1	I	3+unst.	N	1	1			95	0.68	1	yes	T3	II B	yes	PP, EX, A	1	2; 3; 5;16
1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	F1	II	3	N	2	2		10	97	0.78	3	yes	T2	II A	yes	PP, EX, A	1	
1220	ISOPROPYLE ACETATE	3	F1	II	3	N	2	2		10	97	0.88	3	yes	T2	II A	yes	PP, EX, A	1	
1221	ISOPROPYLAMINE	3	FC	I	3+8	C	1	1			95	0.69	1	yes	T2	II A ⁷⁾	yes	PP, EP, EX, A	1	
1223	KEROSENE	3	F1	III	3	N	3	2			97	≤ 0.83	3	yes	T3	II A	yes	PP, EX, A	0	14
1224	KETONES, LIQUID, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1224	KETONES, LIQUIDE, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1224	KETONES, LIQUIDE, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1224	KETONES, LIQUID, N.O.S.	3	F1	III	3	N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27
1229	MESITYL OXYDE	3	F1	III	3	N	3	2			97	0.85	3	yes	T2	II B ⁴⁾	yes	PP, EX, A	0	
1230	METHANOL	3	FT1	II	3+6.1	N	2	2	3	50	95	0.79	2	yes	T2	II A	yes	PP, EP, EX, TOX, A	1	23
1231	METHYL ACETATE	3	F1	II	3	N	2	2		10	97	0.93	3	yes	T1	II A	yes	PP, EX, A	1	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1235	METHYLAMINE, AQUEOUS SOLUTION	3	FC	II	3+8	C	2	2		50	95		2	yes	T2	II A	yes	PP, EP, EX, A	1	
1243	METHYLE FORMATE	3	F1	I	3	N	1	1			97	0.97	1	yes	T2	II A	yes	PP, EX, A	1	
1244	METHYLHYDRAZINE	6.1	TFC	I	6.1+3+8	C	2	2		45	95	0.88	1	no	T4	II C ⁵⁾	yes	PP, EP, EX, TOX, A	2	
1245	METHYL ISOBUTYL KETONE	3	F1	II	3	N	2	2		10	97	0.8	3	yes	T1	II A	yes	PP, EX, A	1	
1247	METHYL METHACRYLATE, MONOMER, STABILIZED	3	F1	II	3+unst.	C	2	2		40	95	0.94	1	yes	T2	II A	yes	PP, EX, A	1	3; 5; 16
1262	OCTANES (n-octane)	3	F1	II	3	N	2	2		10	97	0.7	3	yes	T3	II A	yes	PP, EX, A	1	
1264	PARALDEHYDE	3	F1	III	3	N	3	2			97	0.99	3	yes	T3	II A ⁷⁾	yes	PP, EX, A	0	6: +16° C; 17
1265	PENTANES, liquid (2-methylbutane)	3	F1	I	3	N	1	1			97	0.62	1	yes	T2	II A	yes	PP, EX, A	1	
1265	PENTANES, liquid (n-pentane)	3	F1	II	3	N	2	2		50	97	0.63	3	yes	T3	II A	yes	PP, EX, A	1	
1265	PENTANES, liquid (n-pentane)	3	F1	II	3	N	2	2	3	10	97	0.63	3	yes	T3	II A	yes	PP, EX, A	1	
1267	PETROLEUM CRUDE OIL vp50 > 175 kPa	3	F1	I	3	N	1	1			97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1267	PETROLEUM CRUDE OIL vp50 > 175 kPa	3	F1	I	3	N	2	2	1	50	97		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29

UN No. or substance identification No.	Name and description	(1)	(2)	(3 (a))	(3 (b))	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1267	PETROLEUM CRUDE OIL with more than 10% benzen vp50 < 175 kPa	3	F1	I	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1267	PETROLEUM CRUDE OIL 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2				50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1267	PETROLEUM CRUDE OIL 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3	10	97		97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1267	PETROLEUM CRUDE OIL with more than 10% benzen 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1267	PETROLEUM CRUDE OIL vp50 ≤ 110 kPa	3	F1	II	3	N	2	2				10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1267	PETROLEUM CRUDE OIL with more than 10% benzen vp50 < 110 kPa boiling point ≤ 60° C	3	F1	II	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1267	PETROLEUM CRUDE OIL with more than 10% benzen vp50 ≤ 100 kPa 60° C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	3	50	95		95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	23; 29
1267	PETROLEUM CRUDE OIL with more than 10% benzen vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2				50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29

UN No. or substance identification No.	Name and description	(1)	(2)	(3 (a))	(3 (b))	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1267	PETROLEUM CRUDE OIL with more than 10% benzen vp50 ≤ 110 kPa boiling point > 115° C	3	F1	II	3	C	2	2				35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1267	PETROLEUM CRUDE OIL	3	F1	III	3	N	3	2					97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. vp50 > 175 kPa	3	F1	I	3	N	1	1					97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. vp50 > 175 kPa	3	F1	I	3	N	2	2	1		50	97			2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S. with more than 10% benzen vp50 > 175 kPa	3	F1	I	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2				50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S. with more than 10% benzen 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29

UN No. or substance identification No.	Name and description	(1)	(2)	(3 (a))	(3 (b))	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1268	PETROLEUM DISTILLATES N.O.S. or PETROLEUM PRODUCTS, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	2	3	10	97			3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2	2		10	97			3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S. with more than 10% benzen vp50 ≤ 110 kPa boiling point ≤ 85° C	3	F1	II	3	C	1	1	1			95			1	yes	T4 ³⁾	II B ^{4)yes}	yes	PP, EX, A	1	27; 29
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S. with more than 10% benzen vp50 ≤ 110 kPa 60°C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	2	3	50	95	0.765		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	23; 27; 29
1268	PETROLEUM DISTILATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S., BENZENE HEART CUT with more than 10% benzen <vp50 ≤ 110 kPa 60° C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	2	3	50	95			2	yes	T 3	II A	yes	PP, EX, A	1	23; 27; 29

UN No. or substance identification No.	Name and description	(1)	(2)	(3 (a))	(3 (b))	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S, with more than 10% benzen, vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2				50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
1268	PETROLEUM DISTILLATES, N.O.S. with more than 10% benzen or PETROLEUM PRODUCTS, N.O.S. with more than 10% benzen vp50 ≤ 110 kPa boiling point > 115° C	3	F1	II	3	C	2	2				35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	3	F1	III	3	N	3	2					97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27
1268	PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. (NAPHTHA) 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2				50	97	0.735	3	yes	T3	II A	yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. (NAPHTHA) 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3			10	97	0.735	3	yes	T3	II A	yes	PP, EX, A	1	14; 29
1268	PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. (NAPHTHA) vp50 ≤ 110 kPa	3	F1	II	3	N	2	2				10	97	0.735	3	yes	T3	II A	yes	PP, EX, A	1	14; 29

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (BENZENE HEART CUT) vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97	0.765	3	yes	T3	II A	yes	PP, EX, A	1	14; 29
1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	F1	II	3	N	2	2		10	97	0.8	3	yes	T2	II B	yes	PP, EX, A	1	
1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	F1	III	3	N	3	2			97	0.8	3	yes	T2	II B	yes	PP, EX, A	0	
1275	PROPIONALDEHYDE	3	F1	II	3	C	2	2	3	50	95	0.81	2	yes	T4	II B	yes	PP, EX, A	1	15; 23
1276	n-PROPYL ACETATE	3	F1	II	3	N	2	2		10	97	0.88	3	yes	T1	II A	yes	PP, EX, A	1	
1277	PROPYLAMINE (1-aminopropane)	3	FC	II	3+8	C	2	2	3	50	95	0.72	2	yes	T3 ²⁾	II A	yes	PP, EP, EX, A	1	23
1278	PROPYL CHLORIDE (1-chloropropane)	3	F1	II	3	C	2	2	3	50	95	0.89	2	yes	T1	II A	yes	PP, EX, A	1	23
1279	PROPYL DICHLORIDE (1,2-DICHLOROPROPANE)	3	F1	II	3	C	2	2		45	95	1.16	2	yes	T1	II A ⁸⁾	yes	PP, EX, A	1	
1280	PROPYLENE OXIDE	3	F1	I	3+unst.	C	1	1			95	0.83	1	yes	T2	II B	yes	PP, EX, A	1	2; 12; 31
1282	PYRIDINE	3	F1	II	3	N	2	2		10	97	0.98	3	yes	T1	II A ⁸⁾	yes	PP, EX, A	1	
1289	SODIUM METHYLATE SOLUTION in alcohol	3	FC	III	3+8	N	3	2			97	0.969	3	yes	T2	II A	yes	PP, EP, EX, A	0	
1294	TOLUENE	3	F1	II	3	N	2	2		10	97	0.87	3	yes	T1	II A ⁸⁾	yes	PP, EX, A	1	
1296	TRIETHYLAMINE	3	FC	II	3+8	C	2	2		50	95	0.73	2	yes	T3	II A ⁸⁾	yes	PP, EP, EX, A	1	

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1300	TURPENTINE SUBSTITUTE (White spirit)	3	F1	III	3	N	3	2			97	0.78	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	0	
1301	VINYL ACETATE, STABILIZED	3	F1	II	3+unst.	N	2	2		10	97	0.93	2	yes	T2	II A	yes	PP, EX, A	1	3; 5; 16
1307	XYLENES (o-XYLENE)	3	F1	II	3	N	3	2			97	0.88	3	yes	T1	II A	yes	PP, EX, A	1	
1307	XYLENES (m-XYLENE)	3	F1	III	3	N	3	2			97	0.86	3	yes	T1	II A	yes	PP, EX, A	0	
1307	XYLENES (p-XYLENE)	3	F1	III	3	N	3	2			97	0.86	3	yes	T1	II A	yes	PP, EX, A	0	6: +17° C; 17
1541	ACETONE CYANOHYDRIN, STABILIZED	6.1	T1	I	6.1+unst.	C	2	2		50	95	0.932	1	no			no	PP, EP, TOX, A	2	3
1545	ALLYL ISOTHIOCYANATE, STABILIZED	6.1	TF1	II	6.1+3+unst.	C	2	2		30	95	1.02	1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	2; 3
1547	ANILINE	6.1	T1	II	6.1	C	2	2		25	95	1.02	2	no			no	PP, EP, TOX, A	2	
1578	CHLORONITROBENZENES (p-chloronitrobenzene)	6.1	T2	II	6.1	C	2	1	2	25	95	1.37	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	7; 17; 26
1578	CHLORONITROBENZENES (p-chloronitrobenzene)	6.1	T2	II	6.1	C	2	1	2	25	95	1.37	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +112° C; 26
1591	o-DICHLOROBENZENE	6.1	T1	III	6.1	C	2	2		25	95	1.32	2	no			no	PP, EP, TOX, A	0	
1593	DICHLOROMETHANE (methyl chloride)	6.1	T1	III	6.1	C	2	2	3	50	95	1.33	2	no			no	PP, EP, TOX, A	0	23

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	Hazards (5)	Type of tank vessel (6)	Cargo tank design (7)	Cargo tank type (8)	Cargo tank equipment (9)	Opening pressure of the high-velocity vent valve in kPa (10)	Maximum degree of filling in % (11)	Relative density at 20° C (12)	Type of sampling device (13)	Cargo pump room below deck permitted (14)	Temperature class (15)	Explosion group (16)	Protection against explosions required (17)	Equipment required (18)	Number of blue lights/cones (19)	Other requirements/Remarks (20)
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1594	DIETHYLSULPHATE	6.1	T1	II	6.1	C	2	2		25	95	1.18	2	no			no	PP, EP, TOX, A	2	
1595	DIMETHYL SULPHATE	6.1	TC1	I	6.1+8	C	2	2		25	95	1.33	2	no			no	PP, EP, TOX, A	2	
1604	ETHYLENEDIAMINE	8	CF1	II	8+3	N	3	2			97	0.9	3	yes	T2	II A	yes	PP, EP, EX, A	1	6: +12° C; 17
1605	ETHYLENE DIBROMIDE	6.1	T1	I	6.1	C	2	2		30	95	2.18	1	no			no	PP, EP, TOX, A	2	6: +14° C; 17
1648	ACETONITRILE (methyl cyanide)	3	F1	II	3	N	2	2		10	97	0.78	3	yes	T1	II A	yes	PP, EX, A	1	
1662	NITROBENZENE	6.1	T1	II	6.1	C	2	2		25	95	1.21	2	no	T1	II B	yes	PP, EP, EX, TOX, A	2	17
1662	NITROBENZENE	6.1	T1	II	6.1	C	2	2		25	95	1.21	2	no			no	PP, EP, TOX, A	2	17; 20: +73° C
1663	NITROPHENOLS	6.1	T2	III	6.1	C	2	2	2	25	95		2	no	T1	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	7; 17
1663	NITROPHENOLS	6.1	T2	III	6.1	C	2	2	2	25	95		2	no			no	PP, EP, TOX, A	0	7; 17; 20: +65° C
1664	NITROTOLUENES (o-nitrotoluene)	6.1	T1	II	6.1	C	2	2		25	95	1.16	2	no			no	PP, EP, TOX, A	2	17
1664	NITROTOLUENES (p-nitrotoluene, molten)	6.1	T2	II	6.1	C	2	2	2	25	95	1.16	2	no	T2	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	7; 17

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1664	NITROTOLUENES (p-nitrotoluene, molten)	6.1	T2	II	6.1	C	2	2	2	25	95	1.16	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +88° C
1708	TOLUIDINES, LIQUID (o-toluidine)	6.1	T1	II	6.1	C	2	2		25	95	1	2	no			no	PP, EP, TOX, A	2	
1708	TOLUIDINES, LIQUID (m-toluidine)	6.1	T1	II	6.1	C	2	2		25	95	1.03	2	no			no	PP, EP, TOX, A	2	
1708	TOLUIDINES, molten (p-toluidine)	6.1	T2	II	6.1	C	2	2	2	25	95	1.05	2	no	T1	II A ⁸⁾	yes	PP, EP, EX, TOX, A	2	7; 17
1708	TOLUIDINES, molten (p-toluidine)	6.1	T2	II	6.1	C	2	2	2	25	95	1.05	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +60° C
1710	TRICHLORETHYLENE	6.1	T1	III	6.1	C	2	2		50	95	1.46	2	no			no	PP, EP, TOX, A	0	15
1715	ACETIC ANHYDRIDE	8	CF1	II	8+3	N	2	3		10	97	1.08	3	yes	T2	II A	yes	PP, EP, EX, A	1	
1717	ACETYL CHLORIDE	3	FC	II	3+8	C	2	2	3	50	95	1.1	2	yes	T2	II A ⁸⁾	yes	PP, EP, EX, A	1	23
1718	BUTYL ACIDE PHOSPHATE	8	C3	III	8	N	4	3			97	0.98	3	yes			no	PP, EP	0	
1719	CAUSTIC ALKALI LIQUID, N.O.S.	8	C5	II	8	N	4	2			97		3	yes			no	PP, EP	0	27; 30
1719	CAUSTIC ALKALI LIQUID, N.O.S.	8	C5	III	8	N	4	2			97		3	yes			no	PP, EP	0	27; 30

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1738	BENZYL CHLORIDE	6.1	TC1	II	6.1+8+3	C	2	2		25	95	1.1	2	no	T1	II A ⁸⁾	yes	PP, EP, EX, TOX, A	2	
1742	BORON TRIFLUORIDE ACETIC ACID COMPLEX	8	C3	II	8	N	4	2			97	1.35	3	yes			no	PP, EP	0	
1750	CHLORACETIC ACID SOLUTION	6.1	TC1	II	6.1+8	C	2	2	2	25	95	1.58	2	no	T1	II A	yes	PP, EP, EX, TOX, A	2	7; 17
1750	CHLORACETIC ACID SOLUTION	6.1	TC1	II	6.1+8	C	2	2	2	25	95	1.58	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +111° C
1760	CORROSIVE LIQUID, N.O.S.	8	C9	I	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
1760	CORROSIVE LIQUID, N.O.S.	8	C9	II	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
1760	CORROSIVE LIQUID, N.O.S.	8	C9	III	8	N	4	3			97		3	yes			no	PP, EP	0	27
1760	CORROSIVE LIQUID, N.O.S. (sodium mercaptobenzothiazole, 50% aqueous solution)	8	C9	II	8	N	4	2			97	1.25	3	yes			no	PP, EP	0	
1760	CORROSIVE LIQUID, N.O.S. (fatty alcohol, C ₁₂ -C ₁₄)	8	C9	III	8	N	4	2			97	0.89	3	yes			no	PP, EP	0	

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1760	CORROSIVE LIQUID, N.O.S. (ethylene diaminetetraacetic acid, tetrasodium salt, 40% aqueous solution)	8	C9	III	8	N	4	2			97	1.28	3	yes			no	PP, EP	0	
1764	DICHLOROACETIC ACID	8	C3	II	8	N	3	3			97	1.56	3	yes	T1	II A	yes	PP, EP, EX, A	0	17
1778	FLUROSILICIC ACID	8	C1	II	8	N	2	3		10	97		3	yes			no	PP, EP	0	
1779	FORMIC ACID	8	C3	II	8	N	2	3		10	97	1.22	3	yes	T1	II A	yes	PP, EP, EX, A	1	6: +12° C; 17
1780	FUMARYL CHLORIDE	8	C3	II	8	N	2	3		10	97	1.41	3	yes			no	PP, EP	0	8
1783	HEXAMETHYLENEDIAMINE SOLUTION	8	C7	II	8	N	3	2	2		97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	0	7; 17
1783	HEXAMETHYLENEDIAMINE SOLUTION	8	C7	III	8	N	3	2	2		97		3	yes	T3	II B ⁴⁾	yes	PP, EP, EX, A	0	7; 17
1789	HYDROCHLORIC ACID	8	C1	II	8	N	2	3		10	97		3	yes			no	PP, EP	0	
1789	HYDROCHLORIC ACID	8	C1	III	8	N	4	3			97		3	yes			no	PP, EP	0	
1805	PHOSPHORIC ACID with more than 80% acid, by volume	8	C1	III	8	N	4	3	2		95		3	yes			no	PP, EP	0	7; 17; 22
1805	PHOSPHORIC ACID with 80% (volume) acid, or less	8	C1	III	8	N	4	3			97	1.00 - 1.6	3	yes			no	PP, EP	0	22
1814	POTASSIUM HYDROXIDE SOLUTION	8	C5	II	8	N	4	2			97		3	yes			no	PP, EP	0	30

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1814	POTASSIUM HYDROXIDE SOLUTION	8	C5	III	8	N	4	2			97		3	yes			no	PP, EP	0	30
1823	SODIUM HYDROXIDE, molten	8	C6	II	8	N	4	1	2		95	2.13	3	yes			no	PP, EP	0	7; 17
1824	SODIUM HYDROXIDE SOLUTION	8	C5	II	8	N	4	2			97		3	yes			no	PP, EP	0	30
1824	SODIUM HYDROXIDE SOLUTION	8	C5	III	8	N	4	2			97		3	yes			no	PP, EP	0	30
1830	SULPHURIC ACID with more than 51% acid	8	C1	II	8	N	4	3			97	1.4 - 1.84	3	yes			no	PP, EP	0	8; 22; 30
1831	SULPHURIC ACID, FUMING (oleum)	8	CT1	I	8+6.1	C	2	2		50	95	1.94	1	no			no	PP, EP, TOX, A	2	8
1832	SULPHURIC ACID, SPENT	8	C1	II	8	N	4	3			97		3	yes			no	PP, EP	0	8; 30
1846	CARBON TETRACHLORIDE	6.1	T1	II	6.1	C	2	2	3	50	95	1.59	2	no			no	PP, EP, TOX, A	2	23
1848	PROPIONIC ACID	8	C3	III	8+3	N	3	3			97	0.99	3	yes	T1	II A ⁷⁾	yes	PP, EP, EX, A	0	
1863	FUEL, AVIATION, TURBINE ENGINE vp50 > 175 kPa	3	F1	I	3	N	1	1			97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1863	FUEL, AVIATION, TURBINE ENGINE vp50 > 175 kPa	3	F1	I	3	N	2	2	1	50	97		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen vp50 > 175 kPa	3	F1	I	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29

UN No. or substance identification No.	Name and description	(1)	(2)	(3 (a))	(3 (b))	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1863	FUEL, AVIATION, TURBINE ENGINE 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2				50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1863	FUEL, AVIATION, TURBINE ENGINE 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2		3		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1863	FUEL, AVIATION, TURBINE ENGINE vp50 ≤ 110 kPa	3	F1	II	3	N	2	2				10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen vp50 ≤ 110 kPa boiling point ≤ 60° C	3	F1	II	3	C	1	1					95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen vp50 ≤ 110 kPa 60° C boiling point ≤ 85° C	3	F1	II	3	C	2	2		3		50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2				50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1863	FUEL, AVIATION, TURBINE ENGINE with more than 10% benzen vp50 ≤ 110 kPa boiling point ≥ 115° C	3	F1	II	3	C	2	2				35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	29
1863	FUEL, AVIATION, TURBINE ENGINE	3	F1	III	3	N	3	2					97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1888	CHLOROFORM	6.1	T1	III	6.1	C	2	2	3	50	95	1.48	2	no			no	PP, EP, TOX, A	0	23
1897	TETRACHLORETHYLENE	6.1	T1	III	6.1	C	2	2		50	95	1.62	2	no			no	PP, EP, TOX, A	0	
1912	METHYL CHLORIDE AND METHYLENE CHLORIDE MIXTURE (liquefied gas)	2	2F		2.1	G	1	1			91		1	yes	T1	II A ⁸⁾	yes	PP, EX, A	1	31
1915	CYCLOHEXANONE	3	F1	III	3	N	3	2			97	0.95	3	yes	T2	II A	yes	PP, EX, A	0	
1917	ETHYL ACRYLATE, STABILIZED	3	F1	II	3+unst.	C	2	2		40	95	0.92	1	yes	T2	II B	yes	PP, EX, A	1	3; 5
1918	ISOPROPYLBENZENE (cumene)	3	F1	III	3	N	3	2			97	0.86	3	yes	T2	II A ⁸⁾	yes	PP, EX, A	0	
1919	METHYL ACRYLATE, STABILIZED	3	F1	II	3+unst.	C	2	2	3	50	95	0.95	1	yes	T2	II B	yes	PP, EX, A	1	3; 5; 23
1920	NONANES	3	F1	III	3	N	3	2			97	0.70 - 0.75	3	yes	T3	II A	yes	PP, EX, A	0	
1922	PYRROLIDINE	3	FC	II	3+8	C	2	2		50	95	0.86	2	yes	T2	II A	yes	PP, EP, EX, A	1	
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE A)	2	2F		2.1	G	1	1			91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE A0)	2	2F		2.1	G	1	1			91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31

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1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE A01)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE A02)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE A1)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE B)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE B1)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE B2)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1965	HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S., (MIXTURE C)	2	2F		2.1	G	1	1					91		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	31
1969	ISOBUTANE	2	2F		2.1	G	1	1					91		1	yes	T2 ¹⁾	II A	yes	PP, EX, A	1	31
1978	PROPANE	2	2F		2.1	G	1	1					91		1	yes	T1	II A	yes	PP, EX, A	1	31
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. boiling point ≤ 60° C	3	FT1	1	3+6.1	C	1	1					95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. 60° C < boiling point ≤ 85° C	3	FT1	II	3+6.1	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23; 27; 29
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. 85° C < boiling point ≤ 115° C	3	FT1	II	3+6.1	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. boiling point > 115° C	3	FT1	II	3+6.1	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. 60° C < boiling point ≤ 85° C	3	FT1	III	3+6.1	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	23; 27; 29
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. 85° C < boiling point ≤ 115° C	3	FT1	III	3+6.1	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	27; 29
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. boiling point > 115° C	3	FT1	III	3+6.1	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	27; 29
1987	ALCOHOLS, FLAMMABLE, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1987	ALCOHOLS, FLAMMABLE, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1987	ALCOHOLS, FLAMMABLE, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29

UN No. or substance identification No.	Name and description	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1987	ALCOHOLS, FLAMMABLE, N.O.S. (tert-butanol 90% (mass)/methanol 10% (mass) mixture)	3	F1	II	3	N	2	2			10	97		3	yes	T1	II A	yes	PP, EX, A	1	
1987	ALCOHOLS, FLAMMABLE, N.O.S.	3	F1	III	3	N	3	2				97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27
1987	ALCOHOLS, FLAMMABLE, N.O.S.	3	F1	III	3	N	3	2	2			95	0.95	3	yes	T3	II A	yes	PP, EX, A	0	7; 17
1987	ALCOHOLS, FLAMMABLE, N.O.S.	3	F1	III	3	N	3	2	2			95	0.95	3	yes			no	PP	0	7; 17; 20: +46° C
1989	ALDEHYDES FLAMMABLE, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2			50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1989	ALDEHYDES FLAMMABLE, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1989	ALDEHYDES FLAMMABLE, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2			10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1989	ALDEHYDES FLAMMABLE, N.O.S.	3	F1	III	3	N	3	2				97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27
1991	CHLOROPRENE, STABILIZED	3	FT1	I	3+6.1+unst.	C	2	2	3		50	95	0.96	1	no	T2	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	3; 5; 23

UN No. or substance identification No.	Name and description	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
		Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. boiling point ≤ 60° C	3	FT1	I	3+6.1	C	1	1		95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. boiling point ≤ 60° C	3	FT1	II	3+6.1	C	1	1		95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. 60° C < boiling point ≤ 85° C	3	FT1	II	3+6.1	C	2	2	3	50	95	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23; 27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. 85° C < boiling point ≤ 115° C	3	FT1	II	3+6.1	C	2	2		50	95	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. boiling point > 115° C	3	FT1	II	3+6.1	C	2	2		35	95	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. boiling point ≤ 60° C	3	FT1	III	3+6.1	C	1	1		95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. 60° C < boiling point ≤ 85° C	3	FT1	III	3+6.1	C	2	2	3	50	95	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	23; 27; 29		
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. 85° C < boiling point ≤ 115° C	3	FT1	III	3+6.1	C	2	2		50	95	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	27; 29		

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1992	FLAMMABLE LIQUID, TOXIC, N.O.S. boiling point > 115° C	3	FT1	III	3+6.1	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	27; 29
1993	FLAMMABLE LIQUID, N.O.S. vp50 >175 kPa	3	F1	I	3	N	1	1			97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. vp50 >175 kPa	3	F1	I	3	N	2	2	1	50	97		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) vp50 >175 kPa	3	F1	I	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
1993	FLAMMABLE LIQUID, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	I	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	I	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. 110 kPa < vp50 ≤ 150 kPa	3	F1	II	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) 110 kPa < vp50 ≤ 175 kPa	3	F1	I	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29

UN No. or substance identification No.	Name and description	Class	3 (a)	3 (b)	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1993	FLAMMABLE LIQUID, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29	
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) vp50 ≤ 110 kPa boiling point ≤ 60° C	3	F1	II	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29	
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) vp50 ≤ 110 kPa 60° C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	3	50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	23; 27; 29	
1993	FLAMMABLE LIQUID, N.O.S.(..., with more than 10% benzen) vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2		50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29	
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) vp50 ≤ 110 kPa boiling point > 115° C	3	F1	II	3	C	2	2		35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29	
1993	FLAMMABLE LIQUID, N.O.S.	3	F1	III	3	N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27	

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) 60° C < boiling point ≤ 85° C	3	F1	III	3	C	2	2	3	50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	23; 27; 29
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) 85° C < boiling point ≤ 115° C	3	F1	III	3	C	2	2		50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	27; 29
1993	FLAMMABLE LIQUID, N.O.S. (..., with more than 10% benzen) boiling point > 115° C	3	F1	III	3	C	2	2		35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	27; 29
1993	FLAMMABLE LIQUID, N.O.S. (cyclohexanone/cyclohexanol mixture)	3	F1	III	3	N	3	2			97	0.95	3	yes	T3	II A	yes	PP, EX, A	0	
1999	TARS, LIQUID 23° C ≤ boiling point ≤ 61° C	3	F1	III	3	N	4	2	2		97		3	yes	T3	II A ⁷⁾	yes	PP, EX, A	0	
2021	CHLOROPHENOLS LIQUID (2-chlorophenol)	6.1	T1	III	6.1	C	2	2		25	95	1.23	2	no	T1	II A ⁷⁾	yes	PP, EP, EX, TOX, A	0	6: +10° C; 17
2022	CRESILIC ACID	6.1	TC1	II	6.1+8+3	C	2	2		25	95	1.03	2	no	T1	II A	yes	PP, EP, EX, TOX, A	2	6: +16° C; 17

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2023	EPICHLORHYDRINE	6.1	TF1	II	6.1+3	C	2	2		35	95	1.18	2	no	T2	II B	yes	PP, EP, EX, TOX, A	2	5
2031	NITRIC ACID, other than red fuming, with more than 70% acid	8	CO1	I	8+5.1	N	2	3		10	97	1.41 (at 68% HNO ³)	3	yes			no	PP, EP	0	
2031	NITRIC ACID, other than red fuming, with not more than 70% acid	8	CO1	II	8	N	2	3		10	97	1.51 ⁽¹⁾ (at 68% HNO ³)	3	yes			no	PP, EP	0	
2032	NITRIC ACID, RED FUMING	8	COT	I	8+5.1+6.1	C	2	2		50	95	1.51	1	no			no	PP, EP, TOX, A	2	
2045	ISOBUTYRALDEHYDE	3	F1	II	3	C	2	2	3	50	95	0.79	2	yes	T4	II A ⁽⁷⁾	yes	PP, EX, A	1	7
2046	CYMENES	3	F1	III	3	N	3	2			97	0.88	3	yes	T2	II A	yes	PP, EX, A	0	
2047	DICHLOROPROPENES (2,3-dichloroprop-1-ene)	3	F1	II	3	C	2	2		45	95	1.2	2	yes	T1	II A	yes	PP, EX, A	1	
2047	DICHLOROPROPENES (mixtures of 2,3-dichloroprop-1-ene and 1,3-dichloroprop-1-ene)	3	F1	II	3	C	2	2		45	95	1.23	2	yes	T2 ⁽¹⁾	II A	yes	PP, EX, A	1	

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	(12)	(13)	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2047	DICHLOROPROPENES (mixtures of 2,3-dichloroprop-1-ene and 1,3-dichloroprop-1-ene)	3	F1	III	3	C	2	2		45	95	1.23	2	yes	T2 ¹⁾	II A	yes	PP, EX, A	0	
2047	DICHLOROPROPENES (1,3-dichloroprop-1-ene)	3	F1	III	3	C	2	2		40	95	1.23	2	yes	T2 ¹⁾	II A ⁷⁾	yes	PP, EX, A	0	
2048	DICYCLOPENTADIENE	3	F1	III	3	N	3	2	2		95	0.94	3	yes	T1	II B ⁴⁾	yes	PP, EX, A	0	7; 17
2050	DIISOBUTYLENE, ISOMERIC COMPOUNDS	3	F1	II	3	N	2	2		10	97	0.72	3	yes	T3 ²⁾	II A ⁷⁾	yes	PP, EX, A	1	
2051	2-DIMETHYLAMINOETHANOL	8	CF1	II	8+3	N	3	2			97	0.89	3	yes	T3	II A	yes	PP, EP, EX, A	1	
2053	METHYL ISOBUTYL CARBINOL	3	F1	III	3	N	3	2			97	0.81	3	yes	T2	II B ⁴⁾	yes	PP, EX, A	0	
2054	MORPHOLINE	8	CF1	I	8+3	N	3	2			97	1	3	yes	T3	II A	yes	PP, EP, EX, A	1	
2055	STYRENE MONOMER, STABILIZED (vinylbenzene monomer, stabilized)	3	F1	III	3+unst.	N	3	2			97	0.91	3	yes	T1	II A	yes	PP, EX, A	0	3; 5; 16
2056	TETRAHYDROFURAN	3	F1	II	3	N	2	2		10	97	0.89	3	yes	T3	II B	yes	PP, EX, A	1	
2057	TRIPROPYLENE (propylentriemer)	3	F1	III	3	N	3	2			97	0.73	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	0	
2074	ACRYLAMIDE, AQUEOUS SOLUTION	6.1	T2	III	6.1	C	2	2		30	95	1.03	2	no			no	PP, EP, TOX, A	0	3; 5; 16
2076	CRESOLS, molten	6.1	TC2	II	6.1+8	C	2	2	2	25	95	1.03 - 1.05	2	no	T1	II A ⁸⁾	yes	PP, EP, EX, TOX, A	2	7; 17

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2076	CRESOLS, molten	6.1	TC2	II	6.1+8	C	2	2	2	25	95	1.03 - 1.05	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +66° C
2078	TOLUENE DIISOCYANATE and isomeric mixtures (2,4-toluene diisocyanate)	6.1	T1	II	6.1	C	2	2	2	25	95	1.22	2	no	T1	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	2; 7; 8; 17
2078	TOLUENE DIISOCYANATE and isomeric mixtures (2,4-toluene diisocyanate)	6.1	T1	II	6.1	C	2	2	2	25	95	1.22	2	no			no	PP, EP, TOX, A	2	2; 7; 8; 17; 20: +112° C
2079	DIETHYLENTRIAMINE	8	C7	II	8	N	4	2			97	0.96	3	yes			no	PP, EP	0	
2205	ADIPONITRILE	6.1	T1	III	6.1	C	2	2		25	95	0.96	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	17
2206	ISOCYANATES, TOXIC, N.O.S. (4-chlorophenyl isocyanate)	6.1	T1	II	6.1	C	2	2	2	25	95	1.25	2	no			no	PP, EP, TOX, A	2	7; 17
2209	FORMALDEHYDE SOLUTION with at least 25% formaldehyde	8	C9	III	8	N	4	2			97	1.09	3	yes			no	PP, EP	0	15
2215	MALEIC ANHYDRIDE, molten	8	C3	III	8	N	3	3	2		95	0.93	3	yes	T2	II B ⁴⁾	yes	PP, EP, EX, A	0	7; 17
2215	MALEIC ANHYDRIDE, molten	8	C3	III	8	N	3	3	2		95	0.93	3	yes			no	PP, EP	0	7; 17; 20: +88° C
2218	ACRYLIC ACID, STABILIZED	8	CF1	II	8+3+unst.	C	2	2		30	95	1.05	1	yes	T2	II A ⁷⁾	yes	PP, EP, EX, A	1	3; 4; 5; 17

UN No. or substance identification No.	Name and description	Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks	
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2227	n-BUTYL METHACRYLATE, STABILIZED	3	F1	III	3+unst.	C	2	2		25	95	0.9	1	yes	T3	II A	yes	PP, EX, A	0	3; 5
2238	CHLOROTOLUENES (m-chlorotoluene)	3	F1	III	3	C	2	2		30	95	1.08	2	yes	T1	II A ⁷⁾	yes	PP, EX, A	0	
2238	CHLOROTOLUENES (o-chlorotoluene)	3	F1	III	3	C	2	2		30	95	1.08	2	yes	T1	II A ⁷⁾	yes	PP, EX, A	0	
2238	CHLOROTOLUENES (p-chlorotoluene)	3	F1	III	3	C	2	2		30	95	1.07	2	yes	T1	II A ⁷⁾	yes	PP, EX, A	0	6: +11° C; 17
2239	CHLOROTOLUIDINES	6.1	T1	III	6.1	C	2	2		25	95	1.15	2	no	T1	II A ⁷⁾	yes	PP, EP, EX, TOX, A	0	6: +6° C; 17
2241	CYCLOHEPTANE	3	F1	II	3	N	2	2		10	97	0.81	3	yes	T4 ³⁾	II A	yes	PP, EX, A	1	
2247	n-DECANE	3	F1	III	3	N	3	2			97	0.73	3	yes	T4	II A	yes	PP, EX, A	0	
2248	DI-n-BUTYLAMINE	8	CF1	II	8+3	N	3	2			97	0.76	3	yes	T3	II A ⁷⁾	yes	PP, EP, EX, A	1	
2259	TRIETHYLENETETRAMINE	8	C7	II	8	N	3	2			97	0.98	3	yes	T2	II B ⁴⁾	yes	PP, EP, EX, A	1	
2263	DIMETHYLCYCLOHEXANES (cis-1,4-dimethylcyclohexane)	3	F1	II	3	C	2	2		35	95	0.78	2	yes	T4 ³⁾	II A ⁷⁾	yes	PP, EX, A	1	
2263	DIMETHYLCYCLOHEXANES (trans-1,4-dimethylcyclohexane)	3	F1	II	3	C	2	2		35	95	0.76	2	yes	T4 ³⁾	II A ⁷⁾	yes	PP, EX, A	1	

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	Hazards (5)	(6)	(7)	(8)	(9)	Opening pressure of the high-velocity vent valve in kPa (10)	Maximum degree of filling in % (11)	Relative density at 20° C (12)	(13)	Cargo pump room below deck permitted (14)	Temperature class (15)	Explosion group (16)	Protection against explosions required (17)	Equipment required (18)	Number of blue lights/cones (19)	Other requirements/Remarks (20)
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2264	N,N-DIMETHYLCYCLO-HEXYLAMINE	8	CF1	II	8+3	N	3	2			97	0.85	3	yes	T3	II B ⁴⁾	yes	PP, EP, EX, A	1	
2265	N,N-DIMETHYLFORMAMIDE	3	F1	III	3	N	3	2			97	0.95	3	yes	T2	II A	yes	PP, EX, A	0	
2266	DIMETHYL-N-PROPYLAMINE	3	FC	II	3+8	C	2	2	3	50	95	0.72	2	yes	T4	II A	yes	PP, EP, EX, A	1	23
2276	ETHYL-2 HEXYLAMINE	3	FC	III	3+8	N	3	2			97	0.79	3	yes	T3	II A ⁷⁾	yes	PP, EP, EX, A	0	
2278	n-HEPTENE	3	F1	II	3	N	2	2		10	97	0.7	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	
2280	HEXAMETHYLENEDIAMINE, molten	8	C8	III	8	N	3	3	2		95	0.83	3	yes	T3	II B ⁴⁾	yes	PP, EP, EX, A	0	7; 17
2280	HEXAMETHYLENEDIAMINE, molten	8	C8	III	8	N	3	3	2		95	0.83	3	yes			no	PP, EP	0	7; 17; 20: +66° C
2282	HEXANOLS	3	F1	III	3	N	3	2			97	0.83	3	yes	T3	II A	yes	PP, EX, A	0	
2286	PENTAMETHYLHEPTANE (isododecane)	3	F1	III	3	N	3	2			97	0.75	3	yes	T2	II A ⁷⁾	yes	PP, EX, A	0	
2288	ISOHEXENES	3	F1	II	3+unst.	C	2	2	3	50	95	0.735	2	yes	T2	II B ⁴⁾	yes	PP, EX, A	1	3
2289	ISOPHORONEDIAMINE	8	C7	III	8	N	3	2			97	0.92	3	yes	T2	II A	yes	PP, EP, EX, A	0	17
2303	ISOPROPENYLBENZENE	3	F1	III	3	N	3	2			97	0.91	3	yes	T2	II B	yes	PP, EX, A	0	16
2309	OCTADIENE (1,7-octadiene)	3	F1	II	3	N	2	2		10	97	0.75	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2311	PHENETIDINES	6.1	T1	III	6.1	C	2	2		25	95	1.07	2	no			no	PP, EP, TOX, A	0	6: +7° C; 17
2312	PHENOL, molten	6.1	T1	II	6.1	C	2	2	2	25	95	1.07	2	no	T1	II A ⁸⁾	yes	PP, EP, EX, TOX, A	2	7; 17
2312	PHENOL, molten	6.1	T1	II	6.1	C	2	2	2	25	95	1.07	2	no			no	PP, EP, TOX, A	2	7; 17; 20: +67° C
2320	TETRAETHYLENEPENTAMINE	8	C7	III	8	N	4	2			97	1	3	yes			no	PP, EP	0	
2321	TRICHLOROBENZENES, LIQUID (1,2,4-trichlorobenzene)	6.1	T1	III	6.1	C	2	2	2	25	95	1.45	2	no	T1	II A	yes	PP, EP, EX, TOX, A	0	7; 17
2321	TRICHLOROBENZENE, LIQUID (1,2,4-trichlorobenzene)	6.1	T1	III	6.1	C	2	2	2	25	95	1.45	2	no			no	PP, EP, TOX, A	0	7; 17; 20: +95° C
2323	TRIETHYL PHOSPHITE	3	F1	III	3	N	3	2			97	0.8	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	0	
2324	TRISOBUTYLENE	3	F1	III	3	N	3	2			97	0.76	3	yes	T2	II B ⁴⁾	yes	PP, EX, A	0	
2325	1,3,5 TRIMETHYLBENZENE	3	F1	III	3	N	3	2			97	0.87	3	yes	T1	II A	yes	PP, EX, A	0	
2333	ALLYL ACETATE	3	FT1	II	3+6.1	C	2	2		40	95	0.93	2	no	T2	II A ⁷⁾	yes	PP, EP, EX, TOX, A	2	
2348	BUTYL ACRYLATES, STABILIZED (n-butylacrylates, stabilized)	3	F1	III	3+unst.	C	2	2		30	95	0.9	1	yes	T3	II B	yes	PP, EX, A	0	3; 5

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2350	BUTYL METHYL ETHER	3	F1	II	3	N	2	2		10	97	0.74	3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	
2356	2-CHLOROPROPANE	3	F1	I	3	C	2	2	3	50	95	0.86	2	yes	T1	II A	yes	PP, EX, A	1	23
2357	CYCLOHEXYLAMINE	8	CF1	II	8+3	N	3	2			97	0.86	3	yes	T3	II A ⁸⁾	yes	PP, EP, EX, A	1	
2362	1,1 DICHLOROETHANE	3	F1	II	3	C	2	2	3	50	95	1.17	2	yes	T2	II A	yes	PP, EX, A	1	23
2370	1-HEXENE	3	F1	II	3	N	2	2		10	97	0.67	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	
2382	DIMETHYLHYDRAZINE SYMMETRICAL	6.1	TF1	I	6.1+3	C	2	2		50	95	0.83	1	yes	T4 ³⁾	II C	yes	PP, EP, EX, TOX, A	2	
2383	DIPROPYLAMINE	3	FC	II	3+8	C	2	2		35	95	0.74	2	no	T3	II A	yes	PP, EP, EX, A	1	23
2397	3-METHYLBUTAN-2-ONE	3	F1	II	3	N	2	2		10	97	0.81	3	yes	T1	II A	yes	PP, EX, A	1	
2398	METHYL tert-BUTYL ETHER	3	F1	II	3	N	2	2		10	97	0.74	3	yes	T1	II A	yes	PP, EX, A	1	
2404	PROPIONITRILE	3	FT1	II	3+6.1	C	2	2		45	95	0.78	2	no	T1 ⁹⁾	II A	yes	PP, EP, EX, TOX, A	2	
2414	THIOPHENE	3	F1	II	3	N	2	2		10	97	1.06	3	yes	T2	II A	yes	PP, EX, A	1	
2430	ALKYLPHENOLS SOLID, N.O.S. (nonylphenol, isomeric mixture, molten)	8	C4	II	8	N	3	3	2		95	95	3	yes	T2	II A ⁷⁾	yes	PP, EP, EX, A	0	7; 17
2430	ALKYLPHENOLS SOLID, N.O.S. (nonylphenol, isomeric mixture, molten)	8	C4	II	8	N	3	3	2		95	95	3	yes			no	PP, EP	0	7; 17; 20: +125° C

UN No. or substance identification No.	Name and description	Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks	
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2432	N,N-DIETHYLANILINE	6.1	T1	III	6.1	C	2	2		25	95	0.93	2	no		no	PP, EP, TOX, A	0		
2448	SULPHUR, molten	4.1	F3	III	4.1	N	4	1	2		95	2.07	3	yes		no	PP, EP, TOX*, A	0	* Toximeter for H ₂ S; 7; 20: +150° C	
2458	HEXADIENES	3	F1	II	3	N	2	2		10	97	0.72	3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	
2477	METHYL ISOTHIOCYANATE	6.1	TF1	I	6.1+3	C	2	2	2	35	95	1.07 ¹¹⁾	2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	7; 17
2485	n-BUTYL ISOCYANATE	6.1	TF1	I	6.1+3	C	2	2		35	95	0.89	1	no	T2	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	
2486	ISOBUTYL ISOCYANATE	3	FT1	II	3+6.1	C	2	2		40	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	
2487	PHENYL ISOCYANATE	6.1	TF1	I	6.1+3	C	2	2		25	95	1.1	1	no	T1	II A	yes	PP, EP, EX, TOX, A	2	
2490	DICHLOROISOPROPYL ETHER	6.1	T1	II	6.1	C	2	2		25	95	1.11	2	no			no	PP, EP, TOX, A	2	
2491	ETHANOLAMINE or ETHANOLAMINE SOLUTION	8	C7	III	8	N	3	2			97	1.02	3	yes	T2	II B ⁴⁾	yes	PP, EP, EX, A	0	17
2493	HEXAMETHYLENEMINE	3	FC	II	3+8	N	3	2			97	0.88	3	yes	T3 ²⁾	II A	yes	PP, EP, EX, A	1	
2496	PROPIONIC ANHYDRIDE	8	C3	III	8	N	4	3			97	1.02	3	yes			no	PP, EP	0	
2518	1,5,9-CYCLODODECATRIENE	6.1	T1	III	6.1	C	2	2		25	95	0.9	2	no			no	PP, EP, TOX, A	0	
2527	ISOBUTYL ACRYLATE, STABILIZED	3	F1	III	3+unst.	C	2	2		30	95	0.89	1	yes	T2	II B ⁹⁾	yes	PP, EX, A	0	3; 5

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2528	ISOBUTYL ISOBUTYRATE	3	F1	III	3	N	3	2			97	0.86	3	yes	T2	II A	yes	PP, EX, A	0	
2531	METHACRYLIC ACID, STABILIZED	8	C3	II	8+unst.	C	2	2	2	25	95	1.02	1	yes	T2	II B ⁴⁾	yes	PP, EP, EX, A	0	3; 4; 5; 17
2564	TRICHLOROACETIC ACID SOLUTION	8	C3	II	8	N	3	3	2		95	1.62 ¹¹⁾	3	yes	T1	II A ⁷⁾	yes	PP, EP, EX, A	0	7; 17; 22
2564	TRICHLOROACETIC ACID SOLUTION	8	C3	III	8	N	4	3			97	1.62 ¹¹⁾	3	yes	T1	II A ⁷⁾	yes	PP, EP, EX, A	0	22
2574	TRICRESYL PHOSPHATE with more than 3% ortho isomer	6.1	T1	II	6.1	C	2	2		25	95	1.18	2	no			no	PP, EP, TOX, A	2	
2579	PIPERAZINE, molten (diethylenediamine)	8	C8	III	8	N	3	3	2		95	0.9	3	yes			no	PP, EP	0	7; 17
2586	ALKYLSULFONIC ACIDS, LIQUID with not more than 5% free sulphuric acid	8	C1	III	8	N	4	3			97		3	yes			no	PP, EP	0	
2608	NITROPROPANES	3	F1	III	3	N	3	2			97	1	3	yes	T2	II B ⁷⁾	yes	PP, EX, A	0	
2615	ETHYL PROPYL ETHER	3	F1	II	3	N	2	2		10	97	0.73	3	yes	T4 ³⁾	II A ⁷⁾	yes	PP, EX, A	1	
2618	VINYLTOLUENES, STABILIZED	3	F1	III	3+unst.	C	2	2		25	95	0.92	1	yes	T1	II B ⁴⁾	yes	PP, EX, A	0	3; 5
2651	4,4'- DIAMINODIPHENYL-METHANE	6.1	T2	III	6.1	C	2	2	2	25	95	1	2	no			no	PP, EP, TOX, A	0	7; 17
2672	AMMONIA SOLUTION (relative density between 0.880 and 0.957 at 15° C in water, with more than 10% but not more than 35% ammonia)	8	C5	III	8	N	2	2		10	97	0.88 ¹⁰⁾ - 0.96 ¹⁰⁾	3	yes			no	PP, EP	0	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2683	AMMONIUM SULPHIDE SOLUTION	8	CFT	II	8+3+6.1	C	2	2		50	95		no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	15; 16	
2693	BISULPHITES, AQUEOUS SOLUTION, N.O.S.	8	C1	III	8	N	4	3		97		3	yes			no	PP, EP	0	27	
2709	BUTYLBENZENES	3	F1	III	3	N	3	2		97	0.87	3	yes	T2	II A	yes	PP, EX, A	0		
2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S. (2-aminobutane)	3	FC	II	3+8	C	2	2	3	50	95	0.72	yes	T4 ³⁾	II A	yes	PP, EP, EX, A	1	23	
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	C7	I	8	N	4	2		97		3	yes			no	PP, EP	0	27	
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	C7	II	8	N	4	2		97		3	yes			no	PP, EP	0	27	
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	C7	III	8	N	4	2		97		3	yes			no	PP, EP	0	27	
2754	N-ETHYLTOLUIDINES (N-ethyl-o-toluidine)	6.1	T1	II	6.1	C	2	2		25	95	0.94	no			no	PP, EP, TOX, A	2		
2754	N-ETHYLTOLUIDINES (N-ethyl-m-toluidine)	6.1	T1	II	6.1	C	2	2		25	95	0.94	no			no	PP, EP, TOX, A	2		
2754	N-ETHYLTOLUIDINES, N-ethyl-o-toluidine and N-ethyl-m-toluidine mixtures	6.1	T1	II	6.1	C	2	2		25	95	0.94	no			no	PP, EP, TOX, A	2		
2754	N-ETHYLTOLUIDINES (N-ethyl-p-toluidine)	6.1	T1	II	6.1	C	2	2	2	25	95	0.94	no			no	PP, EP, TOX, A	2	7; 17	
2789	ACETIC ACID, GLACIAL	8	CF1	II	8+3	N	2	3	2	10	95	1.05 (with 100% acid)	yes	T1	II A	yes	PP, EP, EX, A	1	7; 17	

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2789	ACETIC ACID SOLUTION, more than 80% acid, by mass	8	CF1	II	8+3	N	2	3	2	10	95	1.05 (with 100% acid)	3	yes	T1	II A	yes	PP, EP, EX, A	1	7; 17
2790	ACETIC ACID SOLUTION, more than 50% but not more than 80% acid, by mass	8	C3	II	8	N	2	3		10	95		3	yes			no	PP, EP	0	
2790	ACETIC ACID SOLUTION, more than 10% but not more than 50% acid, by mass	8	C3	III	8	N	2	3		10	95		3	yes			no	PP, EP	0	
2796	BATTERY FLUID, ACID	8	C1	II	8	N	4	3			97	1.00 - 1.84	3	yes			no	PP, EP	0	8; 22; 30
2796	SULPHURIC ACID with not more than 51% acid	8	C1	II	8	N	4	3			97	1.00 - 1.41	3	yes			no	PP, EP	0	8; 22; 30
2797	BATTERY FLUID, ALKALI	8	C5	II	8	N	4	3			97	1.00 - 2.13	3	yes			no	PP, EP	0	22; 30
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T1	I	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T1	I	6.1	C	2	2	3	50	95		1	no			no	PP, EP, TOX, A	2	23; 27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T1	I	6.1	C	2	2		50	95		1	no			no	PP, EP, TOX, A	2	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point > 115° C	6.1	T1	I	6.1	C	2	2		35	95		1	no			no	PP, EP, TOX, A	2	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T1	II	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T1	II	6.1	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23; 27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T1	II	6.1	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point > 115° C	6.1	T1	II	6.1	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T1	III	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	0	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T1	III	6.1	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	0	23; 27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T1	III	6.1	C	2	2		50	95		2	no			no	PP, EP, TOX, A	0	27; 29
2810	TOXIC LIQUID, ORGANIC, N.O.S. boiling point > 115° C	6.1	T1	III	6.1	C	2	2		35	95		2	no			no	PP, EP, TOX, A	0	27; 29
2811	TOXIC SOLID, ORGANIC, N.O.S. (1,2,3-trichlorobenzene, molten)	6.1	T2	III	6.1	C	2	2	2	25	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	7; 17; 22
2811	TOXIC SOLID, ORGANIC, N.O.S. (1,2,3-trichlorobenzene, molten)	6.1	T2	III	6.1	C	2	2	2	25	95		2	no			no	PP, EP, TOX, A	0	7; 17; 20: +92° C; 22
2811	TOXIC SOLID, ORGANIC, N.O.S. (1,3,5-trichlorobenzene, molten)	6.1	T2	III	6.1	C	2	2	2	25	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	0	7; 17; 22
2811	TOXIC SOLID, ORGANIC, N.O.S. (1,3,5-trichlorobenzene, molten)	6.1	T2	III	6.1	C	2	2	2	25	95		2	no			no	PP, EP, TOX, A	0	7; 17; 20: +92° C; 22
2815	N-AMINOETHYLPIPERAZINE	8	C7	III	8	N	4	2			97	0.98	3	yes			no	PP, EP	0	
2820	BUTYRIC ACID	8	C3	III	8	N	2	3		10	97	0.96	3	yes			no	PP, EP	0	
2829	CAPROIC ACID	8	C3	III	8	N	4	3			97	0.92	3	yes			no	PP, EP	0	
2831	1,1,1-TRICHLOROETHANE	6.1	T1	III	6.1	C	2	2	3	50	95	1.34	2	yes			no	PP, EP, TOX, A	0	23

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2850	TETRAPROPYLENE (PROPYLENE TETRAMER)	3	F1	III	3	N	4	2			97	0.76	3	yes			no	PP, EX, A	0	
2874	FURFURYL ALCOHOL	6.1	T1	III	6.1	C	2	2		25	95	1.13	2	no			no	PP, EP, TOX, A	0	
2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (2-propanol and didecyldimethylammonium chloride, aqueous solution)	8	CF1	II	8+3	N	3	3			95	0.95	3	yes	T3	II A	yes	PP, EP, EX, A	1	
2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (aqueous solution of hexadecyltrimethylammonium chloride (50%) and ethanol (35%))	8	CF1	II	8+3	N	2	3		10	95	0.9	3	yes	T2	II B	yes	PP, EP, EX, A	1	6: +7° C; 17
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point ≤ 60° C	8	CT1	I	8+6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	8	CT1	I	8+6.1	C	2	2	3	50	95		1	no			no	PP, EP, TOX, A	2	23; 27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	8	CT1	I	8+6.1	C	2	2		50	95		1	no			no	PP, EP, TOX, A	2	27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point > 115° C	8	CT1	I	8+6.1	C	2	2		35	95		1	no			no	PP, EP, TOX, A	2	27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point ≤ 60° C	8	CT1	II	8+6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	8	CT1	II	8+6.1	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23; 27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	8	CT1	II	8+6.1	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point > 115° C	8	CT1	II	8+6.1	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29

UN No. or substance identification No.	Name and description	Class	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks	
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point ≤ 60° C	8	CT1	III	8+6.1	C	1	1		95		1	no			no	PP, EP, TOX, A	0	27; 29	
2922	TOXIC LIQUID CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	8	CT1	III	8+6.1	C	2	2	3	50	95	2	no			no	PP, EP, TOX, A	0	23; 27; 29	
2922	TOXIC LIQUID CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	8	CT1	III	8+6.1	C	2	2		50	95	2	no			no	PP, EP, TOX, A	0	27; 29	
2922	TOXIC LIQUID CORROSIVE, N.O.S. boiling point > 115° C	8	CT1	III	8+6.1	C	2	2		35	95	2	no			no	PP, EP, TOX, A	0	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. boiling point ≤ 60° C	3	FC	I	3+8	C	1	1		95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	1	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. boiling point ≤ 60° C	3	FC	II	3+8	C	1	1		95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	1	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	3	FC	II	3+8	C	2	2	3	50	95	2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	1	23; 27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	3	FC	II	3+8	C	2	2		50	95	2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	1	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. boiling point > 115° C	3	FC	II	3+8	C	2	2		35	95	2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	1	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. boiling point ≤ 60° C	3	FC	III	3+8	C	1	1		95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	0	27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	3	FC	III	3+8	C	2	2	3	50	95	2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	0	23; 27; 29	
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	3	FC	III	3+8	C	2	2		50	95	2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	0	27; 29	

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. boiling point > 115° C	3	FC	III	3+8	C	2	2		35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, A	0	27; 29
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (aqueous solution of dialkyl-dimethylammonium chloride (C ₈ -C ₁₈) and 2-propanol)	3	FC	II	3+8	C	2	2		50	95	0.88	2	yes	T2	II A	yes	PP, EP, EX, A	1	
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TC1	I	6.1+8	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TC1	I	6.1+8	C	2	2	3	50	95		1	no			no	PP, EP, TOX, A	2	23; 27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TC1	I	6.1+8	C	2	2		50	95		1	no			no	PP, EP, TOX, A	2	27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. boiling point > 115° C	6.1	TC1	I	6.1+8	C	2	2		35	95		1	no			no	PP, EP, TOX, A	2	27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TC1	II	6.1+8	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TC1	II	6.1+8	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23; 27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TC1	II	6.1+8	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29
2927	TOXIC LIQUID CORROSIVE, ORGANIC, N.O.S. boiling point > 115° C	6.1	TC1	II	6.1+8	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.	6.1	TF1	I	6.1+3	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27

U/N No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TF1	I	6.1+3	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TF1	I	6.1+3	C	2	2	3	50	95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23; 27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TF1	I	6.1+3	C	2	2		50	95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. boiling point > 115° C	6.1	TF1	I	6.1+3	C	2	2		35	95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TF1	II	6.1+3	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TF1	II	6.1+3	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23; 27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TF1	II	6.1+3	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. boiling point > 115° C	6.1	TF1	II	6.1+3	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
2935	ETHYL-2-CHLOROPROPIONATE	3	F1	III	3	C	2	2		30	95	1.08	2	yes	T4 ³⁾	II A	yes	PP, EX, A	0	
2947	ISOPROPYL CHLOROACETATE	3	F1	III	3	C	2	2		30	95	1.09	2	yes	T4 ³⁾	II A	yes	PP, EX, A	0	
2983	ETHYLENE OXIDE AND PROPYLENE MIXTURE, with not more than 30% ethylene oxide	3	FT1	I	3+6.1+unst.	C	1	1	3		95	0.85	1	no	T2	II B	yes	PP, EP, EX, TOX, A	2	2; 3; 12; 31

UN No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., molten, (alkyl-amine (C ₁₂ to C ₁₈))	9	M7	III	9	N	4	3	2		95	0.79	3	yes			no	PP	0	7; 17
3079	METHACRYLONITRILE, STABILIZED	3	FT1	I	3+6.1+unst.	C	2	2		45	95	0.8	1	no	T1	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	3; 5
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	M6	III	9	N	4	3			97		3	yes			no	PP	0	22; 27
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bilge water)	9	M6	III	9	N	4	2			97			yes			no	PP	0	
3092	1-METHOXY-2-PROPANOL	3	F1	III	3	N	3	2			97	0.92	3	yes	T3	II B	yes	PP, EX, A	0	
3145	ALKYLPHENOLS, LIQUID, N.O.S. (including C ₂ -C ₁₂ homologues)	8	C3	II	8	N	4	3			97	0.95	3	yes			no	PP, EP	0	
3145	ALKYLPHENOLS, LIQUID, N.O.S. (including C ₂ -C ₁₂ homologues)	8	C3	III	8	N	4	3			97	0.95	3	yes			no	PP, EP	0	
3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S., molten with a flash-point of not more than 61° C (2-propanol and dialkyl (C ₁₂ to C ₁₈) dimethylammonium chloride)	4.1	F1	II	4.1	N	3	3	2		95	0.86	3	yes	T2	II A	yes	PP, EX, A	1	7; 17
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point	3	F2	III	3	N	3	2	2		95		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	7; 27
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point (CARBON BLACK REEDSTOCK (PYROLYSIS OIL))	3	F2	III	3	N	3	2	2		95		3	yes	T 1	II B	yes	PP, EX, A	0	7

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point (PYROLYSIS OIL A)	3	F2	III	3	N	3	2	2		95		3	yes	T 1	II B	yes	PP, EX, A	0	7
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point (RESIDUAL OIL)	3	F2	III	3	N	3	2	2		95		3	yes	T 1	II B	yes	PP, EX, A	0	7
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point (MIXTURE OF CRUDE NAPHTHALINE)	3	F2	III	3	N	3	2	2		95		3	yes	T 1	II B	yes	PP, EX, A	0	7
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 61° C, at or above its flash-point (CREOSOTE OIL)	3	F2	III	3	N	3	2	2		95		3	yes	T 2	II B	yes	PP, EX, A	0	7
3257	ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100° C (including molten metals, molten salts, etc.)	9	M9	III	9	N	4	1	2		95		3	yes			no	PP	0	7; 20:+115° C; 22; 24; 25; 27
3257	ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100° C (including molten metals, molten salts, etc.)	9	M9	III	9	N	4	1	2		95		3	yes			no	PP	0	7; 20:+225° C; 22; 24; 27
3259	AMINES, SOLID, CORROSIVES, N.O.S. molten (monoalkyl (C ₁₂ to C ₁₈) amine acetate)	8	C8	III	8	N	4	3	2		95	0.87	3	yes			no	PP, EP	0	7; 17
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	C1	I	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	C1	II	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	C1	III	8	N	4	3			97		3	yes			no	PP, EP	0	27

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (aqueous solution of phosphoric acid and citric acid)	8	C1	I	8	N	2	3		10	97		3	yes			no	PP, EP	0	
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (aqueous solution of phosphoric acid and citric acid)	8	C1	II	8	N	4	3			97		3	yes			no	PP, EP	0	
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (aqueous solution of phosphoric acid and citric acid)	8	C1	III	8	N	4	3			97		3	yes			no	PP, EP	0	
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	C3	I	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	C3	II	8	N	2	3		10	97		3	yes			no	PP, EP	0	27
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	C3	III	8	N	4	3			97		3	yes			no	PP, EP	0	27
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	C5	I	8	N	4	2			97		3	yes			no	PP, EP	0	27
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	C5	II	8	N	4	2			97		3	yes			no	PP, EP	0	27
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	C5	III	8	N	4	2			97		3	yes			no	PP, EP	0	27
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	C7	I	8	N	4	2			97		3	yes			no	PP, EP	0	27
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	C7	II	8	N	4	2			97		3	yes			no	PP, EP	0	27
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	C7	III	8	N	4	2			97		3	yes			no	PP, EP	0	27
3271	ETHERS, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14, 27; 29

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3271	ETHERS, N.O.S. (tert-amyimethyl ether)	3	F1	II	3	N	2	2		10	97	0.77	3	yes	T2	II B ⁴⁾	yes	PP, EX, A	1	
3271	ETHERS, N.O.S.	3	F1	III	3	N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14, 27
3272	ESTERS, N.O.S. vp50 ≤ 110 kPa	3	F1	II	3	N	2	2		10	97	0.77	3	yes	T2	II B ⁴⁾	yes	PP, EX, A	1	14, 27; 29
3272	ESTERS, N.O.S.	3	F1	III	3	N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14, 27
3276	NITRILES, TOXIC, N.O.S. (2-methylglutaronitrile)	6.1	T1	II	6.1	C	2	2		10	97	0.95	2	no			no	PP, EP, TOX, A	2	
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. boiling point ≤ 60° C	3	FTC	I	3+6.1+8	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. boiling point ≤ 60° C	3	FTC	II	3+6.1+8	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. 60° C < boiling point ≤ 85° C	3	FTC	II	3+6.1+8	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	23, 27; 29
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. 85° C < boiling point ≤ 115° C	3	FTC	II	3+6.1+8	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. boiling point > 115° C	3	FTC	II	3+6.1+8	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	yes	PP, EP, EX, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T4	I	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T4	I	6.1	C	2	2	3	50	95		1	no			no	PP, EP, TOX, A	2	23, 27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T4	I	6.1	C	2	2		50	95		1	no			no	PP, EP, TOX, A	2	27; 29

UN No. or substance identification No.	Name and description	3 (a)	3 (b)	(4)	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point > 115° C	6.1	T4	I	6.1	C	2	2		35	95		1	no			no	PP, EP, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T4	II	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T4	II	6.1	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23, 27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T4	II	6.1	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point > 115° C	6.1	T4	II	6.1	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point ≤ 60° C	6.1	T4	III	6.1	C	1	1			95		1	no			no	PP, EP, TOX, A	0	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	T4	III	6.1	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	0	23, 27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	T4	III	6.1	C	2	2		50	95		2	no			no	PP, EP, TOX, A	0	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. boiling point > 115° C	6.1	T4	III	6.1	C	2	2		35	95		2	no			no	PP, EP, TOX, A	0	27; 29
3287	TOXIC LIQUID, INORGANIC, N.O.S. (sodium dichromate solution)	6.1	T4	III	6.1	C	2	2		30	95	1.68	2	no			no	PP, EP, TOX, A	0	
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TC3	I	6.1+8	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TC3	I	6.1+8	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23, 27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TC3	I	6.1+8	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29

U/N No. or substance identification No.	Name and description	Class	Classification	Packing group	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20° C	Type of sampling device	Cargo pump room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Equipment required	Number of blue lights/cones	Other requirements/Remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. boiling point > 115° C	6.1	TC3	I	6.1+8	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. boiling point ≤ 60° C	6.1	TC3	II	6.1+8	C	1	1			95		1	no			no	PP, EP, TOX, A	2	27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. 60° C < boiling point ≤ 85° C	6.1	TC3	II	6.1+8	C	2	2	3	50	95		2	no			no	PP, EP, TOX, A	2	23, 27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. 85° C < boiling point ≤ 115° C	6.1	TC3	II	6.1+8	C	2	2		50	95		2	no			no	PP, EP, TOX, A	2	27; 29
3289	TOXIC LIQUID CORROSIVE, INORGANIC, N.O.S. boiling point > 115° C	6.1	TC3	II	6.1+8	C	2	2		35	95		2	no			no	PP, EP, TOX, A	2	27; 29
3295	HYDROCARBON LIQUID, N.O.S. vp50 > 175 kPa)	3	F1	I	3	N	1	1			97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. vp50 > 175 kPa)	3	F1	I	3	N	2	2	1	50	97		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. 110 kPa < vp50 ≤ 175 kPa)	3	F1	I	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. 110 kPa < vp50 ≤ 150 kPa)	3	F1	I	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. 110 kPa < vp50 ≤ 175 kPa)	3	F1	II	3	N	2	2		50	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. 110 kPa < vp50 ≤ 150 kPa)	3	F1	II	3	N	2	2	3	10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. vp50 > 110 kPa)	3	F1	II	3	N	2	2		10	97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	14; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S.	3	F1	III	3	N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	14; 27

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3295	HYDROCARBONS LIQUID, N.O.S. (1-Octen)	3	F1	II	3	N	2	2		10	97	0.71	3	yes	T3	II B ⁴⁾	yes	PP, EX, A	1	14
3295	HYDROCARBONS LIQUID, N.O.S. (polycyclic aromatic hydrocarbons mixture)	3	F1	III	3	N	3	2			97	1.08	3	yes	T1	II A	yes	PP, EX, A	0	14
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 > 175 kPa	3	F1	I	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) 110 kPa < vp50 ≤ 175 kPa	3	F1	I	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) 110 kPa < vp50 ≤ 175 kPa	3	F1	II	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa boiling point ≤ 60° C	3	F1	II	3	C	1	1			95		1	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa 60° C < boiling point ≤ 85° C	3	F1	II	3	C	2	2	3	50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	23; 27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	II	3	C	2	2		50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa boiling point > 115° C	3	F1	II	3	C	2	2		35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	1	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa 60° C < boiling point ≤ 85° C	3	F1	III	3	C	2	2	3	50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	23; 27; 29

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(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa 85° C < boiling point ≤ 115° C	3	F1	III	3	C	2	2		50	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	27; 29
3295	HYDROCARBONS LIQUID, N.O.S. (... with more than 10% benzen) vp50 ≤ 110 kPa boiling point > 115° C	3	F1	III	3	C	2	2		35	95		2	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	27; 29
9000	AMMONIA, heavily refrigerated	2	3TC		2.1+2.3+8	G	1	1	1; 3		95		1	yes	T1	II A	yes	PP, EP, EX, TOX, A	2	1; 31
9001	SUBSTANCES with a flash-point above 61° C, heated within a limiting range of 15 K below their flash-point, N.O.S.	3				N	3	2			97		3	yes	T4 ³⁾	II B ⁴⁾	yes	PP, EX, A	0	27
9002	SUBSTANCES with a self-ignition temperature of 200° C or below, N.O.S.	3																		
9003	SUBSTANCES with a flash-point above 61° C but not more than 100° C, N.O.S.	9				N	4	2			97		3	yes			no	PP	0	27
9003	SUBSTANCES with a flash-point above 61° C but not more than 100° C, N.O.S. (ethylene glycol monobutyl ether)	9				N	4	2			97	0.9	3	yes			no	PP	0	
9003	SUBSTANCES with a flash-point above 61° C but not more than 100° C, N.O.S. (2-ethylhexylacrylate)	9				N	4	2			97	0.89	3	yes			no	PP	0	3; 5; 16
9004	DIPHENYLMETHANE-4,4'-DIISOCYANATE	9				N	2	3	2	10	95	1.21 ¹¹⁾	3	yes			no	PP	0	7; 8; 17; 19