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COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS

(Twentieth session, Geneva, 7-16 December 1998, agenda item 2 (a))

WORK OF THE SUB-COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS

Multimodal portable tank transport

Portable Tank Requirements

Implementing the Rationalized Approach

Transmitted by the Expert from the United States of America

1. During its fifteenth session, the Sub-Committee considered a proposal submitted by the Expert from the United States of America (ST/SG/AC.10/C.3/1998/32) to implement the rationalized approach for the assignment of portable tank requirements to individual substances as described in document ST/SG/AC.10/C.3/26/Add.1. A working group was convened and made recommendations which were subsequently adopted by the Sub-Committee. The revised table in Annex 1 (English only) takes these recommendations into account. Revisions to portable tank assignments are shown in bold text.

2. Review of Annex 1 shows that for most substances the assignment of portable tank requirements is already in line with the rationalized approach. In most cases the resulting changes will have minimal impact on safety and industry. There were a number of changes which were considered more carefully taking into account specific characteristics of some substances and the effects, on existing portable tanks. This is consistent with the guidelines in ST/SG/AC.10/C.3/26/Add.1 which state that: **'For certain substances the tank requirements recommended by these guidelines may not be appropriate owing to unique characteristics of the substance not addressed in these guidelines. In these instances expert judgement should be applied in assigning appropriate requirements.''**

3. In recognition of the amendments to the portable tank assignments and the decisions taken by the working group the rationalized approach for the assignment of portable tank requirements in document ST/SG/AC.10/C.3/26/Add.1 was also updated and is provided in Annex 2. Several additional T codes were added and some were renumbered to allow for all the possibilities of portable tank arrangements identified in the rationalized approach. Several of these are not used in Annex 1.

Proposal

4. During the IMO DSC Sub-Committee E&T group which met at IMO from 14-23 September 1998, the E&T proposed that PG I and PG II substances which are highly corrosive to steel should not be allowed in portable tanks fitted with bottom openings. This decision is consistent with portable tank assignments currently in the UN Recommendations and IMDG Code but it is not taken into account in the rationalized approach for PG II substances. Since PG I substances are already prohibited to be transported in portable tanks fitted with bottom openings according to the rationalized approach only PG II substances would be affected. Annexes I and II have been amended in accordance with IMO's proposal. The Committee is requested to consider these amendments.

5. The IMO DSC Sub-Committee E&T group also identified a number of substances which are authorized to be transported in portable tanks but do not have tank assignments in the Model Regulation. The expert from the United States proposes that these substances be allowed to be transported in tanks consistent with the rationalized approach. Annex 3 includes a list of these substances with the proposed T Codes and portable tank special provisions.

6. In previous proposals (i.e. ST/SG/AC.10/C.3/88/Add.1 and ST/SG/AC.10/C.3/32) the expert from the United States proposed special portable tank requirements for toxic by inhalation substances. These requirements are also included in the proposed portable tank requirements in Annex 1.

7. The Committee is requested to consider the changes resulting from the rationalized approach on the basis of the table provided in Annex 1. The expert from the United States believes that based on the agreement to adopt a grandfather provision to allow continued use of the assignments in the tenth revised edition of the UN recommendations and Amendment 29 to the IMDG Code and considering the amendments proposed in Annex 1, concerns regarding undue burdens on industry will be avoided. The expert from the United States believes that the rationalized approach should be implemented on the basis of the proposed amendments in the Annexes.

- 8. The following consequential amendments are also proposed:
 - (a) Three new portable tank provisions should be incorporated in 4.2.4.3 as follows:
 - TP27 A portable tank having a minimum test pressure of 4 bar may be used if it is shown that a test pressure of 4 bar or less is acceptable according to the test pressure definition in 6.6.2.1.
 - TP28 A portable tank having a minimum test pressure of 2.65 bar may be used if it is shown that a test pressure of 2.65 bar or less is acceptable according to the test pressure definition in 6.6.2.1.
 - TP29 A portable tank having a minimum test pressure of 1.5 bar may be used if it is shown that a test pressure of 1.5 bar or less is acceptable according to the test pressure definition in 6.6.2.1.
 - (b) In paragraph 4.2.4.2.5 (see latest revision in ST/SG/AC.10/C.3/28) amend the table to

include the following:

Portable tank instruction specified	Portable tank instructions also permitted
T1	T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
T2	T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
Т3	T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
T4	T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
T5	T10, T12, T14, T16, T18, T19, T20, T22
T6	T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
T7	T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
Т8	T9, T10, T13, T14, T19, T20, T21, T22
Т9	T10, T13, T14, T19, T20, T21, T22
T10	T14, T19, T20, T22
T11	T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22
T12	T14, T16, T18, T19, T20, T22
T13	T14, T19, T20, T21, T22
T14	T19, T20, T22
T15	T16, T17, T18, T19, T20, T21, T22
T16	T18, T19, T20, T22
T17	T18, T19, T20, T21, T22
T18	T19, T20, T22
T19	T20, T22
T20	T22
T21	T22
T22	None
T23	None

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(c) In paragraph 4.2.4.2.6 (see latest revision in ST/SG/AC.10/C.3/28) insert the following:

-	ble tank instructio	ORTABLE TANK INST ns apply to liquid and sol 1.2.1 and the requirement	lid substances of Cla	
Portable tank instruction	Minimum test pressure (bar)	Minimum shell thickness (in mm- reference steel) (see 6.2.4)	Pressure-relief requirements (see 6.6.2.8)	Bottom opening requirements (see 6.6.2.6)
T1	1.5	See 6.6.2.4.2	Normal	See 6.6.2.6.2
T2	1.5	See 6.6.2.4.2	Normal	See 6.6.2.6.3
T3	2.65	See 6.6.2.4.2	Normal	See 6.6.2.6.2
T4	2.65	See 6.6.2.4.2	Normal	See 6.6.2.6.3
T5	2.65	See 6.6.2.4.2	See 6.6.2.8.3	Not Allowed
T6	4	See 6.6.2.4.2	Normal	See 6.6.2.6.2
T7	4	See 6.6.2.4.2	Normal	See 6.6.2.6.3
T8	4	See 6.6.2.4.2	Normal	Not allowed
T9	4	6mm	Normal	Not allowed
T10	4	6mm	See 6.6.2.8.3	Not allowed
T11	6	See 6.6.2.4.2	Normal	See 6.6.2.6.3
T12	6	See 6.6.2.4.2	See 6.6.2.8.3	See 6.6.2.6.3
T13	6	6mm	Normal	Not allowed
T14	6	6mm	See 6.6.2.8.3	Not allowed
T15	10	See 6.6.2.4.2	Normal	See 6.6.2.6.3
T16	10	See 6.6.2.4.2	See 6.6.2.8.3	See 6.6.2.6.3
T17	10	6mm	Normal	See 6.6.2.6.3
T18	10	6mm	See 6.6.2.8.3	See 6.6.2.6.3
T19	10	6mm	See 6.6.2.8.3	Not allowed
T20	10	8mm	See 6.6.2.8.3	Not allowed
T21	10	10mm	Normal	Not allowed
T22	10	10mm	See 6.6.2.8.3	Not allowed

- (d) The following editorial amendments should be incorporated:
 - In paragraph 4.2.4.2.6 portable tank instruction T34(T20) should be renumbered "T23".
 - In paragraph 4.2.1.1 delete the last sentence and add the following:

"Substances shall be transported in portable tanks conforming to the portable tank instruction identified in Column 10 of the Dangerous Goods List and the portable tank special provisions assigned to each substance in Column 11 of the Dangerous Goods List."

- In paragraph 4.2.4.1.1 delete "(T1 to T36)" in the second sentence. Delete "(T1 to T24)" in the sixth sentence and insert "(e.g T1)".
- In paragraph 4.2.4.2.2 delete "(T1 to T34)" in the first sentence.

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ANNEX 1

Changes to Portable Tank Requirements Resulting from the Rationalized Approach

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
1089	ACETALDEHYDE	3	Ι		T28	T11	TP2 TP7	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1133	ADHESIVES containing flammable liquid	3	Ι		T4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1139	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	I		Τ4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1144	CROTONYLENE	3	Ι		T24	T11	TP2	No change in requirements.
1155	DIETHYL ETHER (ETHYL ETHER)	3	Ι		T26	T11	TP2	Bottom openings would be allowed and would require three effective means of closure.
1167	DIVINYL ETHER, INHIBITED	3	Ι		T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
1210	PRINTING INK, flammable	3	Ι		T4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1218	ISOPRENE, INHIBITED	3	Ι		T24	T11	TP2	No change in requirements.
3295	HYDROCARBONS, LIQUID, N.O.S.	3	Ι		T4	T11	TP1 TP8 TP9	Minimum test pressure increased from 2.65 bar to 6 bar.
1243	METHYL FORMATE	3	Ι		T24	T11	TP2	No change in requirements.
1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	3	Ι		Τ4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1265	PENTANES, liquid	3	Ι		T24	T11	TP2	No change in requirements.
1267	PETROLEUM CRUDE OIL	3	Ι		T4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	3	Ι		T4	T11	TP1 TP8 TP9	Minimum test pressure increased from 2.65 bar to 6 bar.
1280	PROPYLENE OXIDE	3	Ι		T24	T11	TP2 TP7	No change in requirements.
1302	VINYL ETHYL ETHER, INHIBITED	3	Ι		T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
1303	VINYLIDENE CHLORIDE, INHIBITED	3	I		T25	T12	TP2 TP7	A frangible disc would continue to be required in series with the relief device due to the potential for this substance to readily polymerize .
2389	FURAN	3	I		T16	T12	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would continue to be required in series with the relief device due to the potential for this substance to readily polymerize .
2371	ISOPENTENES	3	Ι		T24	T11	TP2	No change in requirements.

UN No	Description	Class	PG	Sub		Code	TP Note	Description of changes
No				risk	Old	New		
2363	ETHYL MERCAPTAN	3	Ι		T26	T11	TP2 TP13	Bottom openings would be allowed and would require three effective means of closure.
2561	3-METHYL-1-BUTENE	3	Ι		T24	T11	TP2	No change in requirements.
2459	2-METHYL-1-BUTENE	3	Ι		T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
2356	2-CHLOROPROPANE	3	I		T13	T11	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.
2456	2-CHLOROPROPENE	3	Ι		T24	T11	TP2	No change in requirements.
1108	1-PENTENE (n-AMYLENE)	3	Ι		T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
3336	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.	3	Ι		T28	T11	TP2	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1863	FUEL, AVIATION, TURBINE ENGINE	3	Ι		T4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
1866	RESIN SOLUTION, flammable	3	Ι		T4	T11	TP1 TP8	Minimum test pressure increased from 2.65 bar to 6 bar.
2749	TETRAMETHYLSILANE	3	Ι		T29	T14	TP2	No change in requirements.
1989	ALDEHYDES, N.O.S.	3	Ι		T4	T11	TP1 TP9	Minimum test pressure increased from 2.65 bar to 6 bar.
1993	FLAMMABLE LIQUID, N.O.S.	3	I		T4	T11	TP1 TP9	Minimum test pressure increased from 2.65 bar to 6 bar.
2059	NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	3	Ι		T4	T11	TP1 TP8 TP9	Minimum test pressure increased from 2.65 bar to 6 bar.
2605	METHOXYMETHYL ISOCYANATE	3	Ι	6.1	T20	T22	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity hazard .
1100	ALLYL CHLORIDE	3	I	6.1	T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would continue to be required in series with the relief device due to the potential for this substance to readily polymerize .
1992	FLAMMABLE LIQUID, TOXIC, N.O.S.	3	Ι	6.1	T16	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter.
1099	ALLYL BROMIDE	3	Ι	6.1	T16	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. A frangible disc would continue to be required in series with the relief device due to the potential for this substance to readily polymerize .
1093	ACRYLONITRILE, INHIBITED	3	I	6.1	T20	T14	TP2	Minimum test pressure increased from 4 bar to 6 bar.
1991	CHLOROPRENE, INHIBITED	3	Ι	6.1	T15	T14	TP2 TP6 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. A frangible disc would be required in series with the relief device in all cases.
1131	CARBON DISULPHIDE	3	Ι	6.1	T20	T14	TP2 TP7 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would 6mm regardless of the tanks diameter. Bottom openings would not be allowed. A frangible disc would continue to be required in series with the relief device.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	L. L			risk	Old	New		L O
2483	ISOPROPYL ISOCYANATE	3	Ι	6.1	T20	T22	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk.
3273	NITRILES, FLAMMABLE, TOXIC, N.O.S.	3	Ι	6.1	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2481	ETHYL ISOCYANATE	3	Ι	6.1	T20	T22	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
2336	ALLYL FORMATE	3	Ι	6.1	T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1921	PROPYLENEIMINE, INHIBITED	3	Ι	6.1	T29	T14	TP2	No change in requirements.
2983	ETHYLENE OXIDE AND PROPYLENE OXIDE MIXTURE, not more than 30% ethylene oxide	3	Ι	6.1	T27	T14	TP2	The minimum shell thickness would be 6mm in all cases regardless of the tank diameter.
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	3	Ι	6.1, 8	T13	T14	TP2 TP9 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1305	VINYLTRICHLOROSILANE, INHIBITED	3	Ι	8	T17	T11	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1221	ISOPROPYLAMINE	3	Ι	8	T24	T11	TP2	No change in requirements.
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	3	Ι	8	T19	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. A frangible disc would be required in series with the relief device in all cases.
2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	3	Ι	8	Τ4	T14	TP1 TP9	Minimum test pressure increased from 2.65 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1250	METHYLTRICHLOROSILANE	3	Ι	8	T17	T11	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1297	TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass	3	Ι	8	T13	T11	TP1	Minimum test pressure increased from 4 bar to 6 bar.
1088	ACETAL	3	Π		T4	T4	TP1	No change in requirements.
1090	ACETONE	3	П		T4	T4	TP1	No change in requirements.
1091	ACETONE OILS	3	Π		T4	T4	TP1 TP8	No change in requirements.
2410	1,2,3,6-TETRAHYDROPYRIDINE	3	Π		T4	T4	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	-			risk	Old	New		
3272	ESTERS, N.O.S.	3	Π		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1105	PENTANOLS	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1107	AMYL CHLORIDE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1111	AMYL MERCAPTAN	3	Π		T4	T4	TP1	No change in requirements.
1113	AMYL NITRITE	3	Π		T4	T4	TP1	No change in requirements.
1114	BENZENE	3	Π		T4	T4	TP1	No change in requirements.
1120	BUTANOLS	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1123	BUTYL ACETATES	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1127	CHLOROBUTANES	3	Π		T4	T4	TP1	No change in requirements.
1128	n-BUTYL FORMATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1129	BUTYRALDEHYDE	3	Π		T4	T4	TP1	No change in requirements.
1133	ADHESIVES containing flammable liquid	3	П		T4	T4	TP1 TP8	No change in requirements.
1136	COAL TAR DISTILLATES, FLAMMABLE	3	П		T4	T4	TP1 TP7	No change in requirements.
1139	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	П		Τ4	T4	TP1 TP8	No change in requirements.
1145	CYCLOHEXANE	3	Π		T4	T4	TP1	No change in requirements.
1146	CYCLOPENTANE	3	Π		T13	T7	TP1	No change in requirements.
1148	DIACETONE ALCOHOL	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1156	DIETHYL KETONE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1159	DIISOPROPYL ETHER	3	Π		T4	T4	TP1	No change in requirements.
1161	DIMETHYL CARBONATE	3	Π		T4	T4	TP1	No change in requirements.
1164	DIMETHYL SULPHIDE	3	Π		T13	T7	TP2	No change in requirements.
1165	DIOXANE	3	Π		T4	T4	TP1	No change in requirements.
1166	DIOXOLANE	3	П		T4	T4	TP1	No change in requirements.
1169	EXTRACTS, AROMATIC, LIQUID	3	П		T4	T4	TP1 TP8	No change in requirements.
1170	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1173	ETHYL ACETATE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1175	ETHYLBENZENE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1176	ETHYL BORATE	3	П		T4	T4	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No			_	risk	Old	New		
1179	ETHYL BUTYL ETHER	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2461	METHYLPENTADIENE	3	Π		T4	T4	TP1	No change in requirements.
2345	3-BROMOPROPYNE	3	Π		T4	T4	TP1	No change in requirements.
1190	ETHYL FORMATE	3	Π		T4	T4	TP1	No change in requirements.
1193	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	3	П		T4	T4	TP1	No change in requirements.
1195	ETHYL PROPIONATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1197	EXTRACTS, FLAVOURING, LIQUID	3	Π		T4	T4	TP1 TP8	No change in requirements.
2458	HEXADIENE	3	Π		T4	T4	TP1	No change in requirements.
1201	FUSEL OIL	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1203	MOTOR SPIRIT or GASOLINE or PETROL	3	Π		T4	T4	TP1	No change in requirements.
1206	HEPTANES	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1208	HEXANES	3	Π		T4	T4	TP1	No change in requirements.
1210	PRINTING INK, flammable	3	Π		T4	T4	TP1 TP8	No change in requirements.
1213	ISOBUTYL ACETATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1216	ISOOCTENE	3	Π		T4	T4	TP1	No change in requirements.
1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1220	ISOPROPYL ACETATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1224	KETONES, LIQUID, N.O.S.	3	Π		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1231	METHYL ACETATE	3	Π		T4	T4	TP1	No change in requirements.
1234	METHYLAL	3	Π		T13	T7	TP2	No change in requirements.
1237	METHYL BUTYRATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2377	1,1-DIMETHOXYETHANE	3	Π		T13	T7	TP1	No change in requirements.
2277	ETHYL METHACRYLATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1245	METHYL ISOBUTYL KETONE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1246	METHYL ISOPROPENYL KETONE, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
1247	METHYL METHACRYLATE MONOMER, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
1248	METHYL PROPIONATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1249	METHYL PROPYL KETONE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1262	OCTANES	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	3	Π		Τ4	T4	TP1 TP8	No change in requirements.
1265	PENTANES, liquid	3	П		T4	T4	TP1	No change in requirements.
1266	PERFUMERY PRODUCTS with flammable solvents	3	Π		T4	T4	TP1 TP8	No change in requirements.
1267	PETROLEUM CRUDE OIL	3	Π		T4	T4	TP1 TP8	No change in requirements.
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	3	Π		T4	Т7	TP1 TP8 TP9 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1275	PROPIONALDEHYDE	3	Π		T13	T7	TP1	No change in requirements.
1276	n-PROPYL ACETATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1278	PROPYL CHLORIDE	3	Π		T13	T7	TP2	No change in requirements.
1281	PROPYL FORMATES	3	П		T4	T4	TP1	No change in requirements.
1282	PYRIDINE	3	П		T4	T4	TP2	No change in requirements.
1286	ROSIN OIL	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1287	RUBBER SOLUTION	3	Π		T4	T4	TP1 TP8	No change in requirements.
1288	SHALE OIL	3	Π		T4	T4	TP1 TP8	No change in requirements.
1293	TINCTURES, MEDICINAL	3	Π		T4	T4	TP1 TP8	No change in requirements.
1294	TOLUENE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1300	TURPENTINE SUBSTITUTE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1301	VINYL ACETATE, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
1304	VINYL ISOBUTYL ETHER, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
1306	WOOD PRESERVATIVES, LIQUID	3	Π		T4	T4	TP1 TP8	No change in requirements.
1307	XYLENES	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3271	ETHERS, N.O.S.	3	Π		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2263	DIMETHYLCYCLOHEXANES	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2612	METHYL PROPYL ETHER	3	П		T13	T7	TP2	No change in requirements.
2278	n-HEPTENE	3	Π		T4	T4	TP1	No change in requirements.
2256	CYCLOHEXENE	3	Π		T4	T4	TP1	No change in requirements.
2615	ETHYL PROPYL ETHER	3	П		T4	T4	TP1	No change in requirements.
2436	THIOACETIC ACID	3	Π		T4	T4	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	2000.pron			risk	Old	New		
2416	TRIMETHYL BORATE	3	Π		T13	T7	TP1	No change in requirements.
2414	THIOPHENE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2412	TETRAHYDROTHIOPHENE	3	Π		T4	T4	TP1	No change in requirements.
2409	ISOPROPYL PROPIONATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2406	ISOPROPYL ISOBUTYRATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2403	ISOPROPENYL ACETATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2402	PROPANETHIOLS	3	Π		T4	T4	TP1 TP13	No change in requirements.
2536	METHYLTETRAHYDROFURAN	3	Π		T4	T4	TP1	No change in requirements.
2400	METHYL ISOVALERATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2398	METHYL tert-BUTYL ETHER	3	Π		T13	T7	TP1	No change in requirements.
1648	ACETONITRILE	3	Π		T13	T7	TP2	No change in requirements.
2393	ISOBUTYL FORMATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2391	IODOMETHYLPROPANES	3	Π		T4	T4	TP1	No change in requirements.
2388	FLUOROTOLUENES	3	Π		T4	T4	TP1	No change in requirements.
2387	FLUOROBENZENE	3	Π		T4	T4	TP1	No change in requirements.
2385	ETHYL ISOBUTYRATE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2384	DI-n-PROPYL ETHER	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2381	DIMETHYL DISULPHIDE	3	Π		T4	T4	TP1	No change in requirements.
2380	DIMETHYLDIETHOXYSILANE	3	Π		T4	T4	TP1	No change in requirements.
2375	DIETHYL SULPHIDE	3	Π		T13	T7	TP1 TP13	No change in requirements.
2373	DIETHOXYMETHANE	3	Π		T4	T4	TP1	No change in requirements.
2367	alpha-METHYLVALERALDEHYDE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2358	CYCLOOCTATETRAENE	3	Π		T4	T4	TP1	No change in requirements.
2374	3,3-DIETHOXYPROPENE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2397	3-METHYLBUTAN-2-ONE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2457	2,3-DIMETHYLBUTANE	3	Π		T13	T7	TP1	No change in requirements.
2376	2,3-DIHYDROPYRAN	3	Π		T4	T4	TP1	No change in requirements.
2460	2-METHYL-2-BUTENE	3	Π		T13	T7	TP1	No change in requirements.
1150	1,2-DICHLOROETHYLENE	3	Π		T13	T7	TP2	No change in requirements.
2246	CYCLOPENTENE	3	П		T13	T7	TP2	No change in requirements.
3022	1,2-BUTYLENE OXIDE, STABILIZED	3	Π		T4	T4	TP1	No change in requirements.
2352	BUTYL VINYL ETHER, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
2372	1,2-DI-(DIMETHYLAMINO) ETHANE	3	П		T4	T4	TP1	No change in requirements.
2252	1,2-DIMETHOXYETHANE	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1279	1,2-DICHLOROPROPANE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
2362	1,1-DICHLOROETHANE	3	Π		T4	T4	TP1	No change in requirements.
2058	VALERALDEHYDE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2340	2-BROMOETHYL ETHYL ETHER	3	Π		T4	T4	TP1	No change in requirements.
2339	2-BROMOBUTANE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2343	2-BROMOPENTANE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2301	2-METHYLFURAN	3	Π		T4	T4	TP1	No change in requirements.
1178	2-ETHYLBUTYRALDEHYDE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2390	2-IODOBUTANE	3	Π		T4	T4	TP1	No change in requirements.
2370	1-HEXENE	3	Π		T4	T4	TP1	No change in requirements.
1126	1-BROMOBUTANE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3336	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.	3	Π		T4		TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
3295	HYDROCARBONS, LIQUID, N.O.S.	3	Π		T4		TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2057	TRIPROPYLENE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2351	BUTYL NITRITES	3	Π		T4	T4	TP1	No change in requirements.
2242	CYCLOHEPTENE	3	Π		T4	T4	TP1	No change in requirements.
2241	CYCLOHEPTANE	3	Π		T2		TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2616	TRIISOPROPYL BORATE	3	Π		T4		TP1	No change in requirements.
2350	BUTYL METHYL ETHER	3	Π		T4	T4	TP1	No change in requirements.
2347	BUTYL MERCAPTAN	3	Π		T4	T4	TP1	No change in requirements.
2346	BUTANEDIONE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2344	BROMOPROPANES	3	Π		T4	T4	TP1	No change in requirements.
3065	ALCOHOLIC BEVERAGES, with more than 70% alcohol by volume	3	П		Т2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2287	ISOHEPTENE	3	Π		T4	T4	TP1	No change in requirements.
2288	ISOHEXENE	3	Π		T24	T11	TP1	No change in requirements.
2296	METHYLCYCLOHEXANE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2298	METHYLCYCLOPENTANE	3	Π		T4	T4	TP1	No change in requirements.
2342	BROMOMETHYLPROPANES	3	Π		T4	T4	TP1	No change in requirements.
2338	BENZOTRIFLUORIDE	3	II		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1862	ETHYL CROTONATE	3	Π		T13	T4	TP2	Minimum test pressure decreased from 4 bar to 2.65 bar.
1863	FUEL, AVIATION, TURBINE ENGINE	3	Π		T4	T4	TP1 TP8	No change in requirements.

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UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	•			risk	Old	New		r G
1866	RESIN SOLUTION, flammable	3	Π		T4	T4	TP1 TP8	No change in requirements.
1999	TARS, LIQUID, including road asphalt and oils, bitumen and cut backs	3	П		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1917	ETHYL ACRYLATE, INHIBITED	3	Π		T4	T4	TP1 TP13	No change in requirements.
1919	METHYL ACRYLATE, INHIBITED	3	Π		T4	T4	TP1 TP13	No change in requirements.
2554	METHYLALLYL CHLORIDE	3	Π		T4	T4	TP1 TP13	No change in requirements.
2838	VINYL BUTYRATE, INHIBITED	3	Π		T4	T4	TP1	No change in requirements.
1987	ALCOHOLS, N.O.S.	3	П		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1989	ALDEHYDES, N.O.S.	3	Π		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1993	FLAMMABLE LIQUID, N.O.S.	3	П		T4	T7	TP1 TP8 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2707	DIMETHYLDIOXANES	3	Π		T4	T4	TP1	No change in requirements.
2059	NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	3	Π		Τ4	T4	TP1 TP8	No change in requirements.
2309	OCTADIENE	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2056	TETRAHYDROFURAN	3	Π		T4	T4	TP1	No change in requirements.
2045	ISOBUTYRALDEHYDE (ISOBUTYL ALDEHYDE)	3	Π		T4	T4	TP1	No change in requirements.
2047	DICHLOROPROPENES	3	Π		T4	T4	TP1	No change in requirements.
2050	DIISOBUTYLENE, ISOMERIC COMPOUNDS	3	Π		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1230	METHANOL	3	Π	6.1	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	3	Π	6.1, 8	T13	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2284	ISOBUTYRONITRILE	3	Π	6.1	T14	T7	TP2 TP13	A frangible disc would no longer be required in series with the relief device.
2622	GLYCIDALDEHYDE	3	Π	6.1	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
3273	NITRILES, FLAMMABLE, TOXIC, N.O.S.	3	Π	6.1	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2378	2-DIMETHYLAMINOACETO- NITRILE	3	Π	6.1	T4	Т7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2603	CYCLOHEPTATRIENE	3	Π	6.1	T13	T7	TP1 TP13	No change in requirements.
2396	METHACRYLALDEHYDE, INHIBITED	3	Π	6.1	T4	T7	TP1 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
2359	DIALLYLAMINE	3	Π	6.1, 8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	1 1 1 1			risk	Old	New		r r ga
2354	CHLOROMETHYL ETHYL ETHER	3	II	6.1	T4	T7	TP1 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
2411	BUTYRONITRILE	3	Π	6.1	T13	T7	TP1 TP13	No change in requirements.
2335	ALLYL ETHYL ETHER	3	Π	6.1	T4	T7	TP1 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
2486	ISOBUTYL ISOCYANATE	3	П	6.1	Т5	T22	TP2 TP13	Minimum test pressure increased from 2.65 bar to 10 bar. The minimum shell thickness would be 10mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device due to the inhalation toxicity risk.
2404	PROPIONITRILE	3	Π	6.1	T13	T7	TP1 TP13	No change in requirements.
1228	MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	П	6.1	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1992	FLAMMABLE LIQUID, TOXIC, N.O.S.	3	Π	6.1	T16	Т7	TP2	Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2360	DIALLYL ETHER	3	Π	6.1	T4	T7	TP1 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
2333	ALLYL ACETATE	3	Π	6.1	T4	T7	TP1 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
1184	ETHYLENE DICHLORIDE	3	Π	6.1	T13	T7	TP1	No change in requirements.
2478	ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.	3	П	6.1	T15	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar. Bottom openings would be allowed and would require three effective means of closure.
2493	HEXAMETHYLENEIMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1125	n-BUTYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1289	SODIUM METHYLATE SOLUTION in alcohol	3	Π	8	T4	Т7	TP1 TP8	Minimum test pressure increased from 2.65 bar to 4 bar.
1106	AMYLAMINE	3	П	8	T2	T7	TP1	Minimum test pressure increased from 1.5 bar to 4 bar.
1158	DIISOPROPYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2266	DIMETHYL-N-PROPYLAMINE	3	Π	8	T17	Т7	TP2 TP13	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2270	ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine	3	П	8	T13	Т7	TP1	No change in requirements.
1296	TRIETHYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2395	ISOBUTYRYL CHLORIDE	3	П	8	Т8	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1297	TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass	3	Π	8	T13	Τ7	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	Description	Chubb	10	risk	Old	New		Description of changes
1298	TRIMETHYLCHLOROSILANE	3	Π	8	T17	T7	TP2 TP13	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1154	DIETHYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1196	ETHYLTRICHLOROSILANE	3	Π	8	T19	Т7	TP2 TP13	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1214	ISOBUTYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1235	METHYLAMINE, AQUEOUS SOLUTION	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1717	ACETYL CHLORIDE	3	П	8	T20	Т8	TP2 TP12	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2383	DIPROPYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1162	DIMETHYLDICHLOROSILANE	3	Π	8	T19	Т7	TP2 TP13	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1160	DIMETHYLAMINE AQUEOUS SOLUTION	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1277	PROPYLAMINE	3	П	8	T13	T7	TP1	No change in requirements.
1723	ALLYL IODIDE	3	Π	8	T16	T7	TP2	Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2399	1-METHYLPIPERIDINE	3	П	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2379	1,3-DIMETHYLBUTYLAMINE	3	П	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	3	П	8	T4	T11	TP1 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1922	PYRROLIDINE	3	Π	8	T2	T7	TP1	Minimum test pressure increased from 1.5 bar to 4 bar.
2535	4-METHYLMORPHOLINE (N- METHYLMORPHOLINE)	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2945	N-METHYLBUTYLAMINE	3	Π	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	3	П	8	T19	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
2386	1-ETHYLPIPERIDINE	3	П	8	T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
1815	PROPIONYL CHLORIDE	3	П	8	Τ7	Τ7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	Ĩ			risk	Old	New		L O
2353	BUTYRYL CHLORIDE	3	Π	8	Т8	Т8	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2985	CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.	3	Π	8	T13	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1104	AMYL ACETATES	3	Ш		T2	T2	TP1	No change in requirements.
1105	PENTANOLS	3	Ш		T2	T2	TP1	No change in requirements.
1109	AMYL FORMATES	3	Ш		T2	T2	TP1	No change in requirements.
1110	n-AMYL METHYL KETONE	3	Ш		T2	T2	TP1	No change in requirements.
1112	AMYL NITRATE	3	Ш		T2	T2	TP1	No change in requirements.
1120	BUTANOLS	3	Ш		T2	T2	TP1	No change in requirements.
1123	BUTYL ACETATES	3	Ш		T2	T2	TP1	No change in requirements.
1130	CAMPHOR OIL	3	Ш		T2	T2	TP1	No change in requirements.
1133	ADHESIVES containing flammable liquid	3	Ш		T2	T2	TP1	No change in requirements.
1134	CHLOROBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
1136	COAL TAR DISTILLATES, FLAMMABLE	3	Ш		T4	T4	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
1139	COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	Ш		T2	T2	TP1	No change in requirements.
1147	DECAHYDRONAPHTHALENE	3	Ш		T2	T2	TP1	No change in requirements.
1148	DIACETONE ALCOHOL	3	Ш		T2	T2	TP1	No change in requirements.
1149	DIBUTYL ETHERS	3	Ш		T2	T2	TP1	No change in requirements.
1152	DICHLOROPENTANES	3	Ш		T2	T2	TP1	No change in requirements.
1153	ETHYLENE GLYCOL DIETHYL ETHER	3	Ш		T2	T2	TP1	No change in requirements.
1157	DIISOBUTYL KETONE	3	Ш		T2	T2	TP1	No change in requirements.
1169	EXTRACTS, AROMATIC, LIQUID	3	Ш		T2	T2	TP1	No change in requirements.
1170	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	3	Ш		T2	T2	TP1	No change in requirements.
1171	ETHYLENE GLYCOL MONOETHYL ETHER	3	Ш		T2	T2	TP1	No change in requirements.
1172	ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	3	Ш		T2	T2	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		L O
1177	ETHYLBUTYL ACETATE	3	Ш		T2	T2	TP1	No change in requirements.
1180	ETHYL BUTYRATE	3	Ш		T2	T2	TP1	No change in requirements.
1188	ETHYLENE GLYCOL MONOMETHYL ETHER	3	Ш		T2	T2	TP1	No change in requirements.
1189	ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	3	Ш		T2	T2	TP1	No change in requirements.
1191	OCTYL ALDEHYDES	3	Ш		T2	T2	TP1	No change in requirements.
1192	ETHYL LACTATE	3	Ш		T2	T2	TP1	No change in requirements.
1197	EXTRACTS, FLAVOURING, LIQUID	3	Ш		T2	T2	TP1	No change in requirements.
1201	FUSEL OIL	3	Ш		T2	T2	TP1	No change in requirements.
1202	GAS OIL or DIESEL FUEL or HEATING OIL LIGHT	3	Ш		T2	T2	TP1	No change in requirements.
1207	HEXALDEHYDE	3	Ш		T2	T2	TP1	No change in requirements.
1210	PRINTING INK, flammable	3	Ш		T2	T2	TP1	No change in requirements.
1212	ISOBUTANOL (ISOBUTYL ALCOHOL)	3	Ш		Т2	T2	TP1	No change in requirements.
1223	KEROSENE	3	Ш		T2	T2	TP2	No change in requirements.
1224	KETONES, LIQUID, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1229	MESITYL OXIDE	3	Ш		T2	T2	TP1	No change in requirements.
1233	METHYLAMYL ACETATE	3	Ш		T2	T2	TP1	No change in requirements.
1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	3	Ш		Τ2	T2	TP1	No change in requirements.
1264	PARALDEHYDE	3	Ш		T2	T2	TP1	No change in requirements.
1266	PERFUMERY PRODUCTS with flammable solvents	3	Ш		T2	T2	TP1	No change in requirements.
1267	PETROLEUM CRUDE OIL	3	Ш		T2	T2	TP1	No change in requirements.
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	3	Ш		T2	T4	TP1 TP9 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1272	PINE OIL	3	Ш		T2	T2	TP1	No change in requirements.
1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	Ш		T2	T2	TP1	No change in requirements.
1286	ROSIN OIL	3	Ш		T2	T2	TP1	No change in requirements.
1287	RUBBER SOLUTION	3	Ш		T2	T2	TP1	No change in requirements.
1288	SHALE OIL	3	Ш		T2	T2	TP1	No change in requirements.
1292	TETRAETHYL SILICATE	3	Ш		T2	T2	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
1293	TINCTURES, MEDICINAL	3	Ш		T2	T2	TP1	No change in requirements.
1299	TURPENTINE	3	Ш		T2	T2	TP1	No change in requirements.
1300	TURPENTINE SUBSTITUTE	3	Ш		T2	T2	TP1	No change in requirements.
1306	WOOD PRESERVATIVES, LIQUID	3	Ш		T2	T2	TP1	No change in requirements.
1307	XYLENES	3	Ш		T2	T2	TP1	No change in requirements.
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash point above 60.5 !C, at or above its flash point	3	Ш		T2	T4	TP3 TP11 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2057	TRIPROPYLENE	3	Ш		Т2	T2	TP1	No change in requirements.
2265	N,N-DIMETHYLFORMAMIDE	3	Ш		T2	T2	TP2	No change in requirements.
2614	METHALLYL ALCOHOL	3	Ш		T2	T2	TP1	No change in requirements.
2282	HEXANOLS	3	Ш		T2	T2	TP1	No change in requirements.
2514	BROMOBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
2520	CYCLOOCTADIENES	3	Ш		T2	T2	TP1	No change in requirements.
2524	ETHYL ORTHOFORMATE	3	Ш		Т2	T2	TP1	No change in requirements.
2527	ISOBUTYL ACRYLATE, INHIBITED	3	Ш		Т2	T2	TP1	No change in requirements.
2528	ISOBUTYL ISOBUTYRATE	3	Ш		Т2	T2	TP1	No change in requirements.
2413	TETRAPROPYL ORTHOTITANATE	3	Ш		Т4	T4	TP1	No change in requirements.
2405	ISOPROPYL BUTYRATE	3	Ш		T2	T2	TP1	No change in requirements.
2498	1,2,3,6- TETRAHYDROBENZALDEHYDE	3	Ш		T2	T2	TP1	No change in requirements.
2394	ISOBUTYL PROPIONATE	3	Ш		T2	T2	TP1	No change in requirements.
2392	IODOPROPANES	3	Ш		T4	T2	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
2368	alpha-PINENE	3	Ш		Т2	T2	TP1	No change in requirements.
2366	DIETHYL CARBONATE	3	Ш		T2	T2	TP1	No change in requirements.
2364	n-PROPYLBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
2271	ETHYL AMYL KETONE	3	Ш		T2	T2	TP1	No change in requirements.
2293	4-METHOXY-4-METHYLPENTAN-2- ONE	3	Ш		T2	T2	TP1	No change in requirements.
2325	1,3,5-TRIMETHYLBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
2752	1,2-EPOXY-3-ETHOXYPROPANE	3	Ш		T2	T2	TP1	No change in requirements.
2302	5-METHYLHEXAN-2-ONE	3	III		T2	T2	TP1	No change in requirements.
2541	TERPINOLENE	3	III		T2	T2	TP1	No change in requirements.
2560	2-METHYLPENTAN-2-OL	3	Ш		T2	T2	TP1	No change in requirements.
2341	1-BROMO-3-METHYLBUTANE	3	Ш		T2	T2	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
3092	1-METHOXY-2-PROPANOL	3	III		T2	T2	TP1	No change in requirements.
2247	n-DECANE	3	Ш		T2	T2	TP1	No change in requirements.
2351	BUTYL NITRITES	3	Ш		T2	T2	TP1	No change in requirements.
2245	CYCLOPENTANONE	3	Ш		T2	T2	TP1	No change in requirements.
2275	2-ETHYLBUTANOL	3	Ш		T2	T2	TP1	No change in requirements.
3336	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3295	HYDROCARBONS, LIQUID, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2244	CYCLOPENTANOL	3	Ш		T2	T2	TP1	No change in requirements.
3272	ESTERS, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3271	ETHERS, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2332	ACETALDEHYDE OXIME	3	Ш		T4	T4	TP1	No change in requirements.
2243	CYCLOHEXYL ACETATE	3	Ш		T2	T2	TP1	No change in requirements.
2283	ISOBUTYL METHACRYLATE, INHIBITED	3	Ш		Т2	Т2	TP1	No change in requirements.
2238	CHLOROTOLUENES	3	Ш		T2	T2	TP1	No change in requirements.
2234	CHLOROBENZOTRIFLUORIDES	3	Ш		T2	T2	TP1	No change in requirements.
2227	n-BUTYL METHACRYLATE, INHIBITED	3	Ш		T2	T2	TP1	No change in requirements.
2616	TRIISOPROPYL BORATE	3	Ш		T2	T2	TP1	No change in requirements.
2617	METHYLCYCLOHEXANOLS, flammable	3	Ш		T2	T2	TP1	No change in requirements.
2286	PENTAMETHYLHEPTANE	3	Ш		T2	T2	TP1	No change in requirements.
2222	ANISOLE	3	Ш		T2	T2	TP1	No change in requirements.
2219	ALLYL GLYCIDYL ETHER	3	Ш		T4	T2	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
2618	VINYLTOLUENES, INHIBITED	3	Ш		T2	T2	TP1	No change in requirements.
1914	BUTYL PROPIONATES	3	Ш		T2	T2	TP1	No change in requirements.
1915	CYCLOHEXANONE	3	Ш		T2	T2	TP1	No change in requirements.
2620	AMYL BUTYRATES	3	Ш		T2	T2	TP1	No change in requirements.
2348	BUTYL ACRYLATES, INHIBITED	3	Ш		T4	T2	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
2344	BROMOPROPANES	3	Ш		T2	T2	TP1	No change in requirements.
2621	ACETYL METHYL CARBINOL	3	Ш		T2	T2	TP1	No change in requirements.
3065	ALCOHOLIC BEVERAGES, with more than 24% but not more than 70% alcohol by volume	3	Ш		T2	T2	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
3056	n-HEPTALDEHYDE	3	Ш		T2	T2	TP1	No change in requirements.
3054	CYCLOHEXYL MERCAPTAN	3	Ш		T2	T2	TP1	No change in requirements.
2608	NITROPROPANES	3	Ш		T2	T2	TP1	No change in requirements.
2297	METHYLCYCLOHEXANONE	3	Ш		T2	T2	TP1	No change in requirements.
2947	ISOPROPYL CHLOROACETATE	3	Ш		T2	T2	TP1	No change in requirements.
2943	TETRAHYDROFURFURYLAMINE	3	Ш		T2	T2	TP1	No change in requirements.
2935	ETHYL 2-CHLOROPROPIONATE	3	Ш		T2	T2	TP1	No change in requirements.
2934	ISOPROPYL 2- CHLOROPROPIONATE	3	Ш		T2	T2	TP1	No change in requirements.
2933	METHYL 2-CHLOROPROPIONATE	3	Ш		T4	T2	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
1863	FUEL, AVIATION, TURBINE ENGINE	3	Ш		T2	T2	TP1	No change in requirements.
1866	RESIN SOLUTION, flammable	3	Ш		T2	T2	TP1	No change in requirements.
2303	ISOPROPENYLBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
2330	UNDECANE	3	Ш		T2	T2	TP1	No change in requirements.
2329	TRIMETHYL PHOSPHITE	3	Ш		T2	T2	TP1	No change in requirements.
2850	PROPYLENE TETRAMER	3	Ш		T2	T2	TP1	No change in requirements.
2842	NITROETHANE	3	Ш		T4	T2	TP1	Minimum test pressure decreased from 2.65 bar to 1.5 bar.
2840	BUTYRALDOXIME	3	Ш		T2	T2	TP1	No change in requirements.
1993	FLAMMABLE LIQUID, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1918	ISOPROPYLBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
1920	NONANES	3	Ш		T2	T2	TP1	No change in requirements.
2324	TRIISOBUTYLENE	3	Ш		T4	T4	TP1	No change in requirements.
1987	ALCOHOLS, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1989	ALDEHYDES, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2709	BUTYLBENZENES	3	Ш		T2	T2	TP1	No change in requirements.
2707	DIMETHYLDIOXANES	3	Ш		T2	T2	TP1	No change in requirements.
1999	TARS, LIQUID, including road asphalt and oils, bitumen and cut backs	3	Ш		T2	T2	TP1	No change in requirements.
2059	NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	3	III		T2	T2	TP1	No change in requirements.
2323	TRIETHYL PHOSPHITE	3	Ш		T2	T2	TP1	No change in requirements.
2319	TERPENE HYDROCARBONS, N.O.S.	3	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2313	PICOLINES	3	Ш		T4	T4	TP1	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	-			risk	Old	New		
2710	DIPROPYL KETONE	3	Ш		T2	T2	TP1	No change in requirements.
2047	DICHLOROPROPENES	3	Ш		T2	T2	TP1	No change in requirements.
2055	STYRENE MONOMER, INHIBITED	3	Ш		T2	T2	TP1	No change in requirements.
2607	ACROLEIN DIMER, STABILIZED	3	Ш		T2	T2	TP1	No change in requirements.
2046	CYMENES	3	Ш		T2	T2	TP1	No change in requirements.
2048	DICYCLOPENTADIENE	3	Ш		T2	T2	TP1	No change in requirements.
2049	DIETHYLBENZENE	3	Ш		T2	T2	TP1	No change in requirements.
2052	DIPENTENE	3	Ш		T2	T2	TP1	No change in requirements.
2053	METHYL ISOBUTYL CARBINOL	3	Ш		T2	T2	TP1	No change in requirements.
2054	MORPHOLINE	8	Ι	3	T20	T10	TP2 TP9	No change in requirements.
2841	DI-n-AMYLAMINE	3	Ш	6.1	T4	T4	TP1	No change in requirements.
1228	MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	Ш	6.1	T4	Τ7	TP1 TP28	No change in requirements.
2478	ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.	3	Ш	6.1	Τ4	T7	TP1 TP13 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1992	FLAMMABLE LIQUID, TOXIC, N.O.S.	3	Ш	6.1	T16	Т7	TP1 TP13 TP28	Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2310	PENTANE-2,4-DIONE	3	Ш	6.1	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2260	TRIPROPYLAMINE	3	Ш	8	T4	T4	TP1	No change in requirements.
2526	FURFURYLAMINE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1106	AMYLAMINE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2276	2-ETHYLHEXYLAMINE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2529	ISOBUTYRIC ACID	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2530	ISOBUTYRIC ANHYDRIDE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2610	TRIALLYLAMINE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	3	Ш	8	T19	Т7	TP1 TP28	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	3	III	8	T4	Τ7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1289	SODIUM METHYLATE SOLUTION in alcohol	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
2361	DIISOBUTYLAMINE	3	Ш	8	T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2684	DIETHYLAMINOPROPYLAMINE	3	Ш	8	T4	T4	TP1	No change in requirements.
1297	TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass	3	Ш	8	T13	Τ7	TP1	No change in requirements.
1198	FORMALDEHYDE SOLUTION, FLAMMABLE	3	Ш	8	T4	T4	TP1	No change in requirements.
3176	FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.	4.1	П		Т5	Т3	TP3 TP11 TP26	Bottom openings would be allowed and would require two effective means of closure.
1325	FLAMMABLE SOLID, ORGANIC, N.O.S.	4.1	Π		T13	Т3	TP1	Minimum test pressure decreased from 4 bar to 2.65 bar . Bottom opening requirements changed from three effective means of closure to two.
1350	SULPHUR	4.1	Ш		T1	T1	TP1	No change in requirements.
3176	FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.	4.1	Ш		T5	T1	TP3 TP11 TP26	Bottom openings would be allowed and would require two effective means of closure.
1325	FLAMMABLE SOLID, ORGANIC, N.O.S.	4.1	Ш		T13	T1	TP1	Minimum test pressure decreased from 4 bar to 1.5 bar. Bottom opening requirements changed from three effective means of closure to two.
2448	SULPHUR, MOLTEN	4.1	Ш		Т5	T1	TP3 TP11	Bottom openings would be allowed and would require two effective means of closure.
2304	NAPHTHALENE, MOLTEN	4.1	Ш		T4	T1	TP3 TP11	Bottom opening requirements changed from three effective means of closure to two.
1366	DIETHYLZINC	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3050	METAL ALKYL HYDRIDES, WATER-REACTIVE, N.O.S. or METAL ARYL HYDRIDES, WATER- REACTIVE, N.O.S.	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
1370	DIMETHYLZINC	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3053	MAGNESIUM ALKYLS	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
2003	METAL ALKYLS, WATER- REACTIVE, N.O.S. or METAL ARYLS, WATER-REACTIVE, N.O.S.	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3052	ALUMINIUM ALKYL HALIDES	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3076	ALUMINIUM ALKYL HYDRIDES	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3049	METAL ALKYL HALIDES, WATER- REACTIVE, N.O.S. or METAL ARYL HALIDES, WATER-REACTIVE, N.O.S.	4.2	I	4.3	T32	T21	TP2 TP7	No change in requirements.
2445	LITHIUM ALKYLS	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3051	ALUMINIUM ALKYLS	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.
3203	PYROPHORIC ORGANOMETALLIC COMPOUND, WATER-REACTIVE, N.O.S.	4.2	Ι	4.3	T32	T21	TP2 TP7	No change in requirements.

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Description of changes	3/AC 24
Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10 mm.	.10/1 /
Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10 mm.	ST/SG/AC.10/1998/53 page 24 Annex
No change in requirements.	—
No change in requirements.	
Minimum test pressure decreased from 10 bar to 6bar. The minimum shell thickness would be decreased from 10mm to 6mm.	
No change in requirements.	

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No				risk	Old	New		
2447	PHOSPHORUS, WHITE, MOLTEN	4.2	Ι	6.1	T19	T21	TP3 TP7 TP11TP26	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10 mm.
1381	PHOSPHORUS, WHITE or YELLOW, DRY or UNDER WATER or IN SOLUTION	4.2	Ι	6.1	T19	T21	TP3	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10 mm.
1422	POTASSIUM SODIUM ALLOYS	4.3	Ι		T19	T9	TP3 TP7	No change in requirements.
1428	SODIUM	4.3	Ι		T19	T9	TP3 TP7	No change in requirements.
2257	POTASSIUM	4.3	Ι		T19	T9	TP3 TP7	No change in requirements.
2965	BORON TRIFLUORIDE DIMETHYL ETHERATE	4.3	Ι	3, 8	T20	T10	TP2 TP7	No change in requirements.
1242	METHYLDICHLOROSILANE	4.3	Ι	3, 8	T20	T10	TP2 TP7 TP13	No change in requirements.
3207	ORGANOMETALLIC COMPOUND or COMPOUND SOLUTION or COMPOUND DISPERSION, WATER- REACTIVE, FLAMMABLE, N.O.S.	4.3	I	3	Т32	T13	TP2 TP7	Minimum test pressure decreased from 10 bar to 6bar. The minimum shell thickness would be decreased from 10mm to 6mm.
2988	CHLOROSILANES, WATER- REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.	4.3	Ι	3, 8	T20	T10	TP2 TP7	No change in requirements.
1183	ETHYLDICHLOROSILANE	4.3	Ι	3, 8	T20	T10	TP2 TP7 TP13	No change in requirements.
1295	TRICHLOROSILANE	4.3	Ι	3, 8	T29	T14	TP2 TP7 TP13	No change in requirements.
3207	ORGANOMETALLIC COMPOUND or COMPOUND SOLUTION or COMPOUND DISPERSION, WATER- REACTIVE, FLAMMABLE, N.O.S.	4.3	Π	3	T32	T11	TP2	Minimum test pressure decreased from 10 bar to 6 bar. The minimum shell thickness would be decreased from 10mm to 6mm. Bottom openings would be allowed and would require three effective means of closure.
3207	ORGANOMETALLIC COMPOUND or COMPOUND SOLUTION or COMPOUND DISPERSION, WATER- REACTIVE, FLAMMABLE, N.O.S.	4.3	III	3	T32	T11	TP2	Minimum test pressure decreased from 10 bar to 6 bar. The minimum shell thickness would be decreased from 10mm to 6mm. Bottom openings would be allowed and would require three effective means of closure.
2426	AMMONIUM NITRATE, LIQUID (hot concentrated solution)	5.1			T14	T7	TP1 TP16 TP17	A frangible disc would no longer be required in series with the relief device.
1745	BROMINE PENTAFLUORIDE	5.1	I	6.1, 8	T23	T22	TP2 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be decreased from 12mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
1746	BROMINE TRIFLUORIDE	5.1	I	6.1, 8	T23	T20	TP2 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be decreased from 12mm to 8mm.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	_			risk	Old	New		
2015	HYDROGEN PEROXIDE, STABILIZED or HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide	5.1	Ι	8	T15	Т9	TP2 TP6 TP24	The minimum shell thickness would be 6mm in all cases regardless of the tank diameter.
1873	PERCHLORIC ACID with more than 50% but not more than 72% acid, by mass	5.1	Ι	8	T11	Т9	TP1 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
3214	PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	П		T4	T4	TP1	No change in requirements.
3219	NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
3218	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
3210	CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
3211	PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
1459	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE	5.1	П		T4	T4	TP1	No change in requirements.
3213	BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
2428	SODIUM CHLORATE, AQUEOUS SOLUTION	5.1	П		T4	T4	TP1	No change in requirements.
2427	POTASSIUM CHLORATE, AQUEOUS SOLUTION	5.1	П		T4	T4	TP1	No change in requirements.
2429	CALCIUM CHLORATE, AQUEOUS SOLUTION	5.1	П		T4	T4	TP1	No change in requirements.
1470	LEAD PERCHLORATE	5.1	Π	6.1	T4	T4	TP1	No change in requirements.
1447	BARIUM PERCHLORATE	5.1	Π	6.1	T4	T4	TP1	No change in requirements.
1445	BARIUM CHLORATE	5.1	Π	6.1	T4	T4	TP1	No change in requirements.
3149	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED	5.1	П	8	T14	Τ7	TP2 TP24	A frangible disc would no longer be required in series with the relief device.
2014	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	5.1	Π	8	T13	Τ7	TP2 TP6 TP24	No change in requirements.
3216	PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.

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UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
3218	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	III		T4	T4	TP1	No change in requirements.
3210	CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Ш		Т4	Τ4	TP1	No change in requirements.
1459	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE	5.1	Ш		T4	T4	TP1	No change in requirements.
3211	PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Ш		T4	T4	TP1	No change in requirements.
2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	5.1	Ш		Τ4	Τ4	TP1 TP24	No change in requirements.
3213	BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	ш		T4	T4	TP1	No change in requirements.
3219	NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	5.1	Π		T4	T4	TP1	No change in requirements.
2428	SODIUM CHLORATE, AQUEOUS SOLUTION	5.1	Ш		T4	T4	TP1	No change in requirements.
2427	POTASSIUM CHLORATE, AQUEOUS SOLUTION	5.1	Π		T4	T4	TP1	No change in requirements.
2429	CALCIUM CHLORATE, AQUEOUS SOLUTION	5.1	Ш		T4	T4	TP1	No change in requirements.
3120	ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED	5.2			T34	T23		No change in requirements.
3119	ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED	5.2			Т34	T23		No change in requirements.
3110	ORGANIC PEROXIDE TYPE F, SOLID	5.2			T34	T23		No change in requirements.
3109	ORGANIC PEROXIDE TYPE F, LIQUID	5.2			T34	T23		No change in requirements.
1935	CYANIDE SOLUTION, N.O.S.	6.1	Ι		T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.
1892	ETHYLDICHLOROARSINE	6.1	Ι		T29	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2317	SODIUM CUPROCYANIDE SOLUTION	6.1	Ι		Τ7	T14	TP2 TP13	Minimum test pressure increased from 2.65 bar to 6 bar. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1689	SODIUM CYANIDE	6.1	I		T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.
1680	POTASSIUM CYANIDE	6.1	Ι		T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.

UN Na	Description	Class	PG	Sub		Code	TP Note	Description of changes
No				risk	Old	New		
1672	PHENYLCARBYLAMINE CHLORIDE	6.1	I		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1670	PERCHLOROMETHYL MERCAPTAN	6.1	I		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1649	MOTOR FUEL ANTI-KNOCK MIXTURE	6.1	I		T31	T14	TP2 TP13	Minimum test pressure decreased from 10 bar to 6 bar.
1613	HYDROCYANIC ACID, AQUEOUS SOLUTION (HYDROGEN CYANIDE, AQUEOUS SOLUTION) with not more than 20% hydrogen cyanide	6.1	Ι		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1605	ETHYLENE DIBROMIDE	6.1	Ι		T27	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
1694	BROMOBENZYL CYANIDES	6.1	Ι		T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.
1580	CHLOROPICRIN	6.1	I		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1560	ARSENIC TRICHLORIDE	6.1	I		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1553	ARSENIC ACID, LIQUID	6.1	Ι		T22	T20	TP2 TP7 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
1541	ACETONE CYANOHYDRIN, STABILIZED	6.1	Ι		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
3006	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	Ι		T13	T20	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2998	TRIAZINE PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3352	PYRETHROID PESTICIDE, LIQUID, TOXIC	6.1	Ι		T13	T14	TP2, TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3348	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2, TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2644	METHYL IODIDE	6.1	I		T16	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
2646	HEXACHLOROCYCLO- PENTADIENE	6.1	I		T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	Description	U10 00	10	risk	Old	New	11 11010	Description of changes
3287	TOXIC LIQUID, INORGANIC, N.O.S.	6.1	Ι		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3285	VANADIUM COMPOUND, N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3284	TELLURIUM COMPOUND, N.O.S.	6.1	Ι		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3283	SELENIUM COMPOUND, N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3282	ORGANOMETALLIC COMPOUND, TOXIC N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3281	METAL CARBONYLS, N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3280	ORGANOARSENIC COMPOUND, N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3278	ORGANOPHOSPHORUS COMPOUND, TOXIC, N.O.S.	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2788	ORGANOTIN COMPOUND, LIQUID, N.O.S.	6.1	I		T13	T14	TP2 TP9 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3276	NITRILES, TOXIC, N.O.S.	6.1	Ι		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No	-			risk	Old	New		
2810	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	I		T13	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3020	ORGANOTIN PESTICIDE, LIQUID, TOXIC	6.1	Ι		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3016	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2902	PESTICIDE, LIQUID, TOXIC, N.O.S.	6.1	I		T13	T14	TP2 TP9 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3014	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3012	MERCURY BASED PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3010	COPPER BASED PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2232	2-CHLOROETHANAL	6.1	Ι		T27	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
2992	CARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2994	ARSENICAL PESTICIDE, LIQUID, TOXIC	6.1	I		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.

UN	Description	Class	PG	Sub	T-0	Code	TP Note	Description of changes
No	-			risk	Old	New		L O
2996	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC	6.1	Ι		T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1098	ALLYL ALCOHOL	6.1	Ι	3	T16	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
2295	METHYL CHLOROACETATE	6.1	Ι	3	T16	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter.
1092	ACROLEIN, INHIBITED	6.1	Ι	3	T20	T22	TP2 TP7 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
2382	DIMETHYLHYDRAZINE, SYMMETRICAL	6.1	I	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1695	CHLOROACETONE, STABILIZED	6.1	Ι	3, 8	T30	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar.
1722	ALLYL CHLOROFORMATE	6.1	Ι	3, 8	T29	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2334	ALLYLAMINE	6.1	I	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.	6.1	Ι	3	T15	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. A frangible disc would be required in series with the relief device in all cases.
1239	METHYL CHLOROMETHYL ETHER	6.1	Ι	3	T20	T22	TP2	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
3015	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2488	CYCLOHEXYL ISOCYANATE	6.1	I	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
3351	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2, TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2438	TRIMETHYLACETYL CHLORIDE	6.1	Ι	3, 8	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
3013	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ι	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.

UN	Description	Class	PG	Sub	Т-С	Code	TP Note	Description of changes
No	-			risk	Old	New		
3017	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3347	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2, TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2997	TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2521	DIKETENE, INHIBITED	6.1	Ι	3	T16	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
3019	ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2991	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1251	METHYL VINYL KETONE, STABILIZED	6.1	I	3, 8	T20	T22	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
3023	2-METHYL-2-HEPTANETHIOL	6.1	Ι	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2487	PHENYL ISOCYANATE	6.1	Ι	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2485	n-BUTYL ISOCYANATE	6.1	I	3	T26	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter. A frangible disc would be required in series with the relief device in all cases.
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T20	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3275	NITRILES, TOXIC, FLAMMABLE, N.O.S.	6.1	I	3	T13	T20	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.

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UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	Description	C1405	1.0	risk	Old	New	11 1.000	Description of changes
1244	METHYLHYDRAZINE	6.1	Ι	3, 8	T20	T22	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
2482	n-PROPYL ISOCYANATE	6.1	Ι	3	T29	T22	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
2477	METHYL ISOTHIOCYANATE	6.1	I	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2337	PHENYL MERCAPTAN	6.1	Ι	3	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2606	METHYL ORTHOSILICATE	6.1	Ι	3	T29	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2484	tert-BUTYL ISOCYANATE	6.1	I	3	T29	T22	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk
2558	EPIBROMOHYDRIN	6.1	Ι	3	T20	T14	TP2 TP13	Minimum test pressure increased from 4 bar to 6 bar.
2993	ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3005	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3011	MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1238	METHYL CHLOROFORMATE	6.1	Ι	3, 8	T30	T22	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 8mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
1143	CROTONALDEHYDE, STABILIZED	6.1	I	3	T16	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
2995	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3294	HYDROGEN CYANIDE, SOLUTION IN ALCOHOL with not more than 45% hydrogen cyanide	6.1	Ι	3	T20	T14	TP2	Minimum test pressure increased from 4 bar to 6 bar.
1135	ETHYLENE CHLOROHYDRIN	6.1	Ι	3	T27	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No				risk	Old	New		
3279	ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.	6.1	I	3	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1163	DIMETHYLHYDRAZINE, UNSYMMETRICAL	6.1	I	3, 8	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
2903	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash point not less than 23 ! C	6.1	Ι	3	T13	T14	TP2 TP9 TP13	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1182	ETHYL CHLOROFORMATE	6.1	Ι	3, 8	T30	T20	TP2 TP13	Minimum test pressure increased from 6 bar to 10 bar.
1752	CHLOROACETYL CHLORIDE	6.1	I	8	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1595	DIMETHYL SULPHATE	6.1	I	8	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1809	PHOSPHORUS TRICHLORIDE	6.1	Ι	8	T20	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
3246	METHANESULPHONYL CHLORIDE	6.1	I	8	T29	T20	TP2 TP12 TP13	Minimum test pressure increased from 6 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
3289	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.	6.1	I	8	T13	T14	TP2 TP9	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2206	ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.	6.1	П		T15	T11	TP2 TP13 TP27	Bottom openings would be allowed and would require three effective means of closure.
2078	TOLUENE DIISOCYANATE	6.1	Π		T13	T7	TP2 TP13	No change in requirements.
2075	CHLORAL, ANHYDROUS, INHIBITED	6.1	Π		T13	T7	TP2	No change in requirements.
2306	NITROBENZOTRIFLUORIDES	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2038	DINITROTOLUENES	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2312	PHENOL, MOLTEN	6.1	Π		T4	T7	TP3 TP11	Minimum test pressure increased from 2.65 bar to 4 bar.
2224	BENZONITRILE	6.1	Π		T13	T7	TP2	No change in requirements.
2019	CHLOROANILINES, LIQUID	6.1	Π		T13	T7	TP2	No change in requirements.
2322	TRICHLOROBUTENE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2018	CHLOROANILINES, SOLID	6.1	Π		T13	T7	TP2	No change in requirements.
1935	CYANIDE SOLUTION, N.O.S.	6.1	Π		T20	T11	TP2 TP13 TP27	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	_			risk	Old	New		
2250	DICHLOROPHENOL ISOCYANATES	6.1	Π		Т3	T7	TP3	Minimum test pressure increased from 2.65 bar to 4 bar.
1891	ETHYL BROMIDE	6.1	Π		T14	T7	TP2 TP13	A frangible disc would no longer be required in series with the relief device.
1886	BENZYLIDENE CHLORIDE	6.1	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1846	CARBON TETRACHLORIDE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1843	AMMONIUM DINITRO-o- CRESOLATE	6.1	Π		T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2253	N,N-DIMETHYLANILINE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1711	XYLIDINES	6.1	Π		T13	T7	TP2	No change in requirements.
1708	TOLUIDINES	6.1	П		T13	T7	TP2	No change in requirements.
1702	TETRACHLOROETHANE	6.1	П		T13	T7	TP2	No change in requirements.
1701	XYLYL BROMIDE	6.1	Π		T13	T7	TP2 TP13	No change in requirements.
1697	CHLOROACETOPHENONE	6.1	Π		T14	T7	TP2 TP13	A frangible disc would no longer be required in series with the relief device.
1686	SODIUM ARSENITE, AQUEOUS SOLUTION	6.1	Π		T15	Т7	TP2	Bottom openings would be allowed and would require three effective means of closure.
1671	PHENOL, SOLID	6.1	Π		T13	T6	TP2	Bottom openings would require two effective means of closure.
1669	PENTACHLOROETHANE	6.1	Π		T13	T7	TP2	No change in requirements.
1665	NITROXYLENES (o-, m-, p-)	6.1	Π		T13	T7	TP2	No change in requirements.
1664	NITROTOLUENES (o-, m-, p-)	6.1	Π		T13	T7	TP2	No change in requirements.
1662	NITROBENZENE	6.1	Π		T13	T7	TP2	No change in requirements.
1661	NITROANILINES (o-, m-, p-)	6.1	П		T13	T7	TP2	No change in requirements.
1658	NICOTINE SULPHATE, SOLID or NICOTINE SULPHATE SOLUTION	6.1	Π		T13	T6/T7	TP2	No change in requirements.
1650	beta-NAPHTHYLAMINE	6.1	Π		Т9	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
1600	DINITROTOLUENES, MOLTEN	6.1	Π		T13	T7	TP 3 TP11	No change in requirements.
1599	DINITROPHENOL SOLUTION	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1598	DINITRO-o-CRESOL	6.1	Π		T13	T7	TP2	No change in requirements.
1597	DINITROBENZENES	6.1	Π		T13	T7	TP2	No change in requirements.
1596	DINITROANILINES	6.1	Π		T13	T7	TP2	No change in requirements.
1594	DIETHYL SULPHATE	6.1	Π		T13	T7	TP2	No change in requirements.
1590	DICHLOROANILINES	6.1	Π		T13	T7	TP2	No change in requirements.
2281	HEXAMETHYLENE DIISOCYANATE	6.1	Π		T13	Т7	TP2	No change in requirements.
2261	XYLENOLS	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
1578	CHLORONITROBENZENES	6.1	Π		T13	T7	TP2	No change in requirements.
1577	CHLORODINITROBENZENES	6.1	Π		T13	T7	TP2	No change in requirements.
1547	ANILINE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2474	THIOPHOSGENE	6.1	Π		T13	T7	TP2	No change in requirements.
2490	DICHLOROISOPROPYL ETHER	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2307	3-NITRO-4- CHLOROBENZOTRIFLUORIDE	6.1	Π		T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2542	TRIBUTYLAMINE	6.1	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2552	HEXAFLUOROACETONE HYDRATE	6.1	Π		T13	Т7	TP2	No change in requirements.
3006	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2998	TRIAZINE PESTICIDE, LIQUID, TOXIC	6.1	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2572	PHENYLHYDRAZINE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2574	TRICRESYL PHOSPHATE with more than 3% ortho isomer	6.1	П		T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2522	2-DIMETHYLAMINOETHYL METHACRYLATE	6.1	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3302	2-DIMETHYLAMINOETHYL ACRYLATE	6.1	Π		T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2501	TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION	6.1	П		T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3352	PYRETHROID PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2822	2-CHLOROPYRIDINE	6.1	П		T13	T7	TP2	No change in requirements.
3348	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC	6.1	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3287	TOXIC LIQUID, INORGANIC, N.O.S.	6.1	П		T13	T11	TP2 TP27	No change in requirements.
2643	METHYL BROMOACETATE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2653	BENZYL IODIDE	6.1	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2669	CHLOROCRESOLS	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3285	VANADIUM COMPOUND, N.O.S.	6.1	П		T13	T11	TP2 TP27	No change in requirements.
3284	TELLURIUM COMPOUND, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No				risk	Old	New		
3283	SELENIUM COMPOUND, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
2690	N,n-BUTYLIMIDAZOLE	6.1	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3282	ORGANOMETALLIC COMPOUND, TOXIC N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
3281	METAL CARBONYLS, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
2750	1,3-DICHLOROPROPANOL-2	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3280	ORGANOARSENIC COMPOUND, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
3278	ORGANOPHOSPHORUS COMPOUND, TOXIC, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
2738	N-BUTYLANILINE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2754	N-ETHYLTOLUIDINES	6.1	Π		T13	T7	TP2	No change in requirements.
2788	ORGANOTIN COMPOUND, LIQUID, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
3276	NITRILES, TOXIC, N.O.S.	6.1	Π		T13	T11	TP2 TP27	No change in requirements.
2650	1,1-DICHLORO-1-NITROETHANE	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2810	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	Π		T13	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2996	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3020	ORGANOTIN PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2821	PHENOL SOLUTION	6.1	Π		T13	T7	TP2	Minimum test pressure increased from 4 bar to 6 bar.
3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2839	ALDOL	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3016	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
2872	DIBROMOCHLOROPROPANES	6.1	Π		T4	T7	TP1	Minimum test pressure increased from 2.65 bar to 4 bar.
2902	PESTICIDE, LIQUID, TOXIC, N.O.S.	6.1	Π		T13	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3014	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3012	MERCURY BASED PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2936	THIOLACTIC ACID	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2948	3-TRIFLUOROMETHYLANILINE	6.1	Π		T13	T7	TP2	No change in requirements.
2966	THIOGLYCOL	6.1	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No				risk	Old	New		
2992	CARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2994	ARSENICAL PESTICIDE, LIQUID, TOXIC	6.1	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2285	ISOCYANATOBENZOTRI- FLUORIDES	6.1	Π	3	T13	Т7	TP2	No change in requirements.
1603	ETHYL BROMOACETATE	6.1	Π	3	T13	T7	TP2	No change in requirements.
2023	EPICHLOROHYDRIN	6.1	Π	3	T13	T7	TP2 TP13	No change in requirements.
3073	VINYLPYRIDINES, INHIBITED	6.1	Π	3, 8	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1199	FURALDEHYDES	6.1	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3279	ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.	6.1	Π	3	T13	T11	TP2 TP27	No change in requirements.
2997	TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2995	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2903	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP13 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3011	MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3351	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2743	n-BUTYL CHLOROFORMATE	6.1	Π	3, 8	T16	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter.
2744	CYCLOBUTYL CHLOROFORMATE	6.1	Π	3, 8	T16	T7	TP2 TP13	Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
3275	NITRILES, TOXIC, FLAMMABLE, N.O.S.	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3005	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2993	ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.

UN	Description	Class	PG	Sub		ode	TP Note	Description of changes
No				risk	Old	New		
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.	6.1	Π	3	T15	T11	TP2 TP27	Bottom openings would be allowed and would require three effective means of closure. Minimum test pressure increased from 4 bar to 6 bar.
3015	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1916	2,2'-DICHLORODIETHYL ETHER	6.1	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3071	MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, TOXIC, FLAMMABLE, N.O.S.	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3347	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2	Minimum test pressure increased from 4 bar to 6 bar.
1545	ALLYL ISOTHIOCYANATE, INHIBITED	6.1	Π	3	T14	T7	TP2	A frangible disc would no longer be required in series with the relief device.
1181	ETHYL CHLOROACETATE	6.1	Π	3	T13	T7	TP2	No change in requirements.
2589	VINYL CHLOROACETATE	6.1	Π	3	T13	T7	TP2	No change in requirements.
1569	BROMOACETONE	6.1	Π	3	T14	T20	TP2 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter. Bottom openings would not be allowed.
2668	CHLOROACETONITRILE	6.1	Π	3	T4	T20	TP2	Minimum test pressure increased from 2.65 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2991	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3013	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3017	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2611	PROPYLENE CHLOROHYDRIN	6.1	Π	3	Т5	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure.
3080	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.	6.1	Π	3	T15	T11	TP2 TP27	Bottom openings would be allowed and would require three effective means of closure. Minimum test pressure increased from 4 bar to 6 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Π	3	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3019	ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	П	3		T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2076	CRESOLS	6.1	Π	8	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1750	CHLOROACETIC ACID SOLUTION	6.1	Π	8	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2022	CRESYLIC ACID	6.1	Π	8	T4	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
1737	BENZYL BROMIDE	6.1	П	8	Т9	T8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
1738	BENZYL CHLORIDE	6.1	П	8	Т9	Т8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2267	DIMETHYL THIOPHOSPHORYL CHLORIDE	6.1	Π	8	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2746	PHENYL CHLOROFORMATE	6.1	Π	8	Т6	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2745	CHLOROMETHYL CHLOROFORMATE	6.1	Π	8	T16	T7	TP2 TP13	Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
3277	CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.	6.1	П	8	Т9	Т8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2748	2-ETHYLHEXYL CHLOROFORMATE	6.1	Π	8	T6	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
3250	CHLOROACETIC ACID, MOLTEN	6.1	Π	8	Т5	T7	TP3 TP11	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure.
3289	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.	6.1	Π	8	T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2205	ADIPONITRILE	6.1	Ш		T1	Т3	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2206	ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.	6.1	Ш		T4	Т7	TP1 TP13 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2290	ISOPHORONE DIISOCYANATE	6.1	Ш		T4	T4	TP2	No change in requirements.
2294	N-METHYLANILINE	6.1	Ш		T4	T4	TP1	No change in requirements.

UN	Description	Class	PG	Sub	Т-С	ode	TP Note	Description of changes
No	Description	Ciubb	10	risk	Old	New	11 11000	Description of changes
2077	alpha-NAPHTHYLAMINE	6.1	Ш		Т3	T3	TP1	No change in requirements.
2299	METHYL DICHLOROACETATE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2074	ACRYLAMIDE	6.1	Ш		T4	T4	TP1	No change in requirements.
2311	PHENETIDINES	6.1	Ш		T4	T4	TP1	No change in requirements.
2321	TRICHLOROBENZENES, LIQUID	6.1	Ш		T4	T4	TP1	No change in requirements.
1935	CYANIDE SOLUTION, N.O.S.	6.1	Ш		T20	Τ7	TP2 TP13 TP28	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2328	TRIMETHYLHEXAMETHYLENE DIISOCYANATE	6.1	Ш		T4	T4	TP2 TP13	No change in requirements.
1897	TETRACHLOROETHYLENE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1888	CHLOROFORM	6.1	Ш		T13	T7	TP2	No change in requirements.
1887	BROMOCHLOROMETHANE	6.1	Ш		T4	T4	TP1	No change in requirements.
2021	CHLOROPHENOLS, LIQUID	6.1	Ш		T4	T4	TP1	No change in requirements.
1812	POTASSIUM FLUORIDE	6.1	Ш		T4	T4	TP1	No change in requirements.
2239	CHLOROTOLUIDINES	6.1	Ш		Т3	T4	TP1	Bottom opening requirements changed from two effective means of closure to three.
2235	CHLOROBENZYL CHLORIDES	6.1	Ш		T4	T4	TP1	No change in requirements.
1710	TRICHLOROETHYLENE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2272	N-ETHYLANILINE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1690	SODIUM FLUORIDE	6.1	Ш		T4	T4	TP1	No change in requirements.
1686	SODIUM ARSENITE, AQUEOUS SOLUTION	6.1	Ш		T15	T4	TP2	Minimum test pressure decreased from 4 bar to 2.65 bar. Bottom openings would be allowed and would require three effective means of closure.
1673	PHENYLENEDIAMINES (o-, m-, p-)	6.1	Ш		T13	T7	TP1	No change in requirements.
1663	NITROPHENOLS (o-, m-, p-)	6.1	Ш		T4	T4	TP3	No change in requirements.
1599	DINITROPHENOL SOLUTION	6.1	Ш		T4	T4	TP1	No change in requirements.
1593	DICHLOROMETHANE	6.1	Ш		T13	T7	TP2	No change in requirements.
1591	o-DICHLOROBENZENE	6.1	Ш		T4	T4	TP1	No change in requirements.
2279	HEXACHLOROBUTADIENE	6.1	Ш		T4	T4	TP1	No change in requirements.
2274	N-ETHYL-N-BENZYLANILINE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2431	ANISIDINES	6.1	Ш		T1	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar. Bottom opening requirements changed from two effective means of closure to three.
2432	N,N-DIETHYLANILINE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2470	PHENYLACETONITRILE, LIQUID	6.1	Ш		T4	T4	TP1	No change in requirements.
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	III		T13	Т7	TP2 TP28	No change in requirements.

UN No	Description	Class	PG	Sub	T-C	1	TP Note	Description of changes	1
No				risk	Old	New			╡
2504	TETRABROMOETHANE	_	Ш			T4	TP1	No change in requirements.	_
2849	3-CHLOROPROPANOL-1	6.1	Ш		T4	T4	TP1	No change in requirements.	
2515	BROMOFORM	6.1	Ш		T4	T4	TP1	No change in requirements.	
2946	2-AMINO-5- DIETHYLAMINOPENTANE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.	
2300	2-METHYL-5-ETHYLPYRIDINE	6.1	Ш		Т4	T4	TP1	No change in requirements.	
2525	ETHYL OXALATE	6.1	Ш		T1	Т4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar. Bottom opening requirements changed from two effective means of closure to three.	
1709	2,4-TOLUYLENEDIAMINE	6.1	Ш		Т3	Т4	TP1	Bottom opening requirements changed from two effective means of closure to three.	
3006	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
2688	1-BROMO-3-CHLOROPROPANE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.	1
2533	METHYL TRICHLOROACETATE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.	1
2998	TRIAZINE PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
2273	2-ETHYLANILINE	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.	
2785	4-THIAPENTANAL	6.1	Ш		T4	T4	TP1	No change in requirements.	
3352	PYRETHROID PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
2501	TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION	6.1	Ш		T4	T4	TP1	No change in requirements.	
3020	ORGANOTIN PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	- 0
3293	HYDRAZINE, AQUEOUS SOLUTION with not more than 37% hydrazine, by mass	6.1	Ш		T4	T4	TP1	No change in requirements.	
3287	TOXIC LIQUID, INORGANIC, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.	
2656	QUINOLINE	6.1	Ш		T4	T4	TP1	No change in requirements.	1
2661	HEXACHLOROACETONE	6.1	Ш		T4	T4	TP1	No change in requirements.	
2662	HYDROQUINONE	6.1	Ш		T4	T4	TP1	No change in requirements.	1
2664	DIBROMOMETHANE	6.1	Ш		T4	T4	TP1	No change in requirements.	1
2667	BUTYLTOLUENES	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.	1
3285	VANADIUM COMPOUND, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.	1
3284	TELLURIUM COMPOUND, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.	1
3283	SELENIUM COMPOUND, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.	1

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UN	Description	Class	PG	Sub		Code	TP Note	Description of changes
No				risk	Old	New		
2689	GLYCEROL alpha- MONOCHLOROHYDRIN	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3282	ORGANOMETALLIC COMPOUND, TOXIC N.O.S.	6.1	ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
3281	METAL CARBONYLS, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
3280	ORGANOARSENIC COMPOUND, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2730	NITROANISOLE	6.1	Ш		T4	T4	TP1	No change in requirements.
2732	NITROBROMOBENZENE	6.1	Ш		T4	T4	TP1	No change in requirements.
2518	1,5,9-CYCLODODECATRIENE	6.1	Ш		T4	T4	TP1	No change in requirements.
3278	ORGANOPHOSPHORUS COMPOUND, TOXIC, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2747	tert-BUTYLCYCLOHEXYL CHLOROFORMATE	6.1	Ш		T4	T4	TP1	No change in requirements.
3276	NITRILES, TOXIC, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2753	N-ETHYLBENZYLTOLUIDINES	6.1	Ш		T13	T7	TP1	No change in requirements.
2788	ORGANOTIN COMPOUND, LIQUID, N.O.S.	6.1	Ш		T13	T7	TP2 TP28	No change in requirements.
2831	1,1,1-TRICHLOROETHANE	6.1	Ш		T4	T4	TP1	No change in requirements.
2810	TOXIC LIQUID, ORGANIC, N.O.S.	6.1	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2821	PHENOL SOLUTION	6.1	Ш		T4	T4	TP1	No change in requirements.
3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	T7	TP2 TP28	No change in requirements.
3016	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	T7	TP2 TP28	No change in requirements.
2872	DIBROMOCHLOROPROPANES	6.1	Ш		T4	T4	TP1	No change in requirements.
2873	DIBUTYLAMINOETHANOL	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2874	FURFURYL ALCOHOL	6.1	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
3014	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	T7	TP2 TP28	No change in requirements.
2902	PESTICIDE, LIQUID, TOXIC, N.O.S.	6.1	Ш		T13	T7	TP2 TP13 TP28	No change in requirements.
3012	MERCURY BASED PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	T7	TP2 TP28	No change in requirements.
2937	alpha-METHYLBENZYL ALCOHOL	6.1	Ш		T1	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar. Bottom opening requirements changed from two effective means of closure to three.
2941	FLUOROANILINES	6.1	Ш		T4	T4	TP1	No change in requirements.

UN No	Description	Class	PG	Sub		Code	TP Note	Description of changes	
No		<u> </u>		risk	Old	New			-
2992	CARBAMATE PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
3348	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
2996	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC	6.1	Ш		T13	Т7	TP2 TP28	No change in requirements.	
2994	ARSENICAL PESTICIDE, LIQUID, TOXIC	6.1	III		T13	Т7	TP2 TP28	No change in requirements.	
3019	ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	
2991	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	
3015	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	
2903	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP13	No change in requirements.	
3013	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	T7	TP2 TP28	No change in requirements.	page 43 Annex
3017	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	- .
2993	ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	III	3	T13	Т7	TP2 TP28	No change in requirements.	Annex
3347	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	x 1
2995	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.	

Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
_			risk	Old	New		
PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.
TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.
THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.
MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	6.1	Ш	3	T13	Т7	TP2 TP28	No change in requirements.
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non fissile or fissile-excepted	7			Т6	Т5	TP4	No change in requirements.
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non fissile or fissile-excepted	7			Т6	Т5	TP4	No change in requirements.
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non fissile or fissile-excepted	7			Т6	Т5	TP4	No change in requirements.
SULPHURYL CHLORIDE	8	Ι		T22	T22	TP2 TP12	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be increased from 8mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
THIONYL CHLORIDE	8	Ι		T22	T10	TP2 TP12 TP13	The minimum shell thickness would be decreased from 8mm to 6mm.
VANADIUM TETRACHLORIDE	8	Ι		Τ7	T10	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
SULPHUR CHLORIDES	8	Ι		T22	T20	TP2 TP12	Minimum test pressure increased from 4 bar to 10 bar.
DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.	8	I		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
ALKYLPHENOLS, LIQUID, N.O.S. (including C2-C12 homologues)	8	I		T4	T10	TP1 TP9	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.

Minimum test pressure increased from 4 bar to 10 bar.

UN No

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SULPHUR TRIOXIDE, INHIBITED or

SULPHUR TRIOXIDE, STABILIZED

T22

8

T20

TP4 TP12

TP13, TP25 **TP26**

UN	Description	Class	PG	Sub		Code	TP Note	Description of changes
No	-			risk	Old	New		
1798	NITROHYDROCHLORIC ACID	8	Ι		T22	T10	TP2 TP12 TP13	The minimum shell thickness would be decreased from 8mm to 6mm.
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	Ι		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	Ι		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	Ι		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	Ι		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	I		T4	T14	TP1 TP9 TP27	Minimum test pressure increased from 4 bar to 6 bar. Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2699	TRIFLUOROACETIC ACID	8	Ι		T22	T10	TP2 TP12	The minimum shell thickness would be decreased from 8mm to 6mm.
2692	BORON TRIBROMIDE	8	I		T22	T20	TP2 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar.
1777	FLUOROSULPHONIC ACID	8	I		T12	T10	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
2240	CHROMOSULPHURIC ACID	8	I		T12	T10	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
1760	CORROSIVE LIQUID, N.O.S.	8	Ι		T13	T14	TP2 TP9 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1758	CHROMIUM OXYCHLORIDE	8	Ι		T9	T10	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar.
2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2-C12 homologues)	8	I		T4	T10	TP1 TP9	Minimum test pressure increased from 4 bar to 6 bar. Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1754	CHLOROSULPHONIC ACID (with or without sulphur trioxide)	8	Ι		T12	T20	TP2 TP12	Minimum test pressure increased from 2.65 bar to 10 bar.
1739	BENZYL CHLOROFORMATE	8	Ι		T20	T10	TP2 TP12 TP13	No change in requirements.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	•			risk	Old	New		L B
2604	BORON TRIFLUORIDE DIETHYL ETHERATE	8	Ι	3	Τ7	T10	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2401	PIPERIDINE	8	Ι	3	T18	T10	TP2	Bottom openings would not be allowed.
2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	8	Ι	3	T4	T14	TP2 TP9 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 6mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	8	Ι	3	T19	T14	TP2 TP9 TP27	Minimum test pressure increased from 4 bar to 6 bar. A frangible disc would be required in series with the relief device in all cases.
2032	NITRIC ACID, RED FUMING	8	I	5.1, 6.1	T22	T20	TP2 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar.
1826	NITRATING ACID MIXTURE, SPENT, with more than 50% nitric acid	8	I	5.1	T12	T10	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
1796	NITRATING ACID MIXTURE with more than 50% nitric acid	8	Ι	5.1	T12	T10	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
1786	HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE	8	I	6.1	T22	T10	TP2 TP12 TP13	The minimum shell thickness would be decreased from 8mm to 6mm.
2031	NITRIC ACID, other than red fuming, with more than 70% nitric acid	8	Ι	6.1	T11	T10	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm. A frangible disc would be required in series with the relief device in all cases.
2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8	I	6.1	T22	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
2879	SELENIUM OXYCHLORIDE	8	I	6.1	T12	T10	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be decreased from 8mm to 6mm.
1790	HYDROFLUORIC ACID, solution, with more than 60% hydrofluoric acid	8	I	6.1	Τ7	T10	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1744	BROMINE or BROMINE SOLUTION	8	I	6.1	T23	T22	TP2 TP10 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be decreased from 12mm to 10mm. A frangible disc would continue to be required in series with the relief device due to the inhalation toxicity risk .
1831	SULPHURIC ACID, FUMING	8	Ι	6.1	T22	T20	TP2 TP12 TP13	Minimum test pressure increased from 4 bar to 10 bar.
1052	HYDROGEN FLUORIDE, ANHYDROUS	8	Ι	6.1	T30	T10	TP2	The minimum shell thickness would be decreased from 8mm to 6mm.
2987	CHLOROSILANES, CORROSIVE, N.O.S.	8	Π		T13	T14	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1801	OCTYLTRICHLOROSILANE	8	П		Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	T-0	Code	TP Note	Description of changes
No	_			risk	Old	New		
1830	SULPHURIC ACID with more than 51% acid	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1832	SULPHURIC ACID, SPENT	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1833	SULPHUROUS ACID	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2564	TRICHLOROACETIC ACID SOLUTION	8	П		T4	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1835	TETRAMETHYLAMMONIUM HYDROXIDE	8	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2437	METHYLPHENYLDICHLORO- SILANE	8	П		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1837	THIOPHOSPHORYL CHLORIDE	8	Π		Т6	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
1838	TITANIUM TETRACHLORIDE	8	Π		Т9	T20	TP2 TP13	Minimum test pressure increased from 2.65 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm.
1849	SODIUM SULPHIDE, HYDRATED with not less than 30% water	8	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1898	ACETYL IODIDE	8	П		Т5	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure.
2851	BORON TRIFLUORIDE DIHYDRATE	8	П		T11	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1906	SLUDGE ACID	8	Π		T11	T8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1908	CHLORITE SOLUTION	8	Π		T4	T7	TP2 TP24	Minimum test pressure increased from 2.65 bar to 4 bar.
1938	BROMOACETIC ACID	8	П		Т5	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure.
2837	BISULPHATES, AQUEOUS SOLUTION	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1827	STANNIC CHLORIDE, ANHYDROUS	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	<u>T-</u> C	ode	TP Note	Description of changes
No	F			risk	Old	New		
1826	NITRATING ACID MIXTURE, SPENT, with not more than 50% nitric acid	8	Π		T12	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
1824	SODIUM HYDROXIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1819	SODIUM ALUMINATE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1818	SILICON TETRACHLORIDE	8	Π		T20	Τ7	TP2 TP7	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
3066	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing	8	п		T13	Τ7	TP2	No change in requirements.
1817	PYROSULPHURYL CHLORIDE	8	П		T11	T8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2801	DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.	8	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1814	POTASSIUM HYDROXIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3145	ALKYLPHENOLS, LIQUID, N.O.S. (including C2-C12 homologues)	8	П		T4	T11	TP1 TP27	Minimum test pressure increased from 2.65 bar to 6 bar.
1810	PHOSPHORUS OXYCHLORIDE	8	Π		Τ7	T20	TP2	Minimum test pressure increased from 2.65 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1808	PHOSPHORUS TRIBROMIDE	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1804	PHENYLTRICHLOROSILANE	8	Π		Τ7	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1803	PHENOLSULPHONIC ACID, LIQUID	8	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1800	OCTADECYLTRICHLORO-SILANE	8	П		T4	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar.
1799	NONYLTRICHLOROSILANE	8	Π		Τ7	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No	_			risk	Old	New		
1796	NITRATING ACID MIXTURE with not more than 50% nitric acid	8	Π		T12	Т8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
1792	IODINE MONOCHLORIDE	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1791	HYPOCHLORITE SOLUTION	8	Π		T4	T7	TP2 TP24	Minimum test pressure increased from 2.65 bar to 4 bar.
2799	PHENYLPHOSPHORUS THIODICHLORIDE	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2798	PHENYLPHOSPHORUS DICHLORIDE	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1789	HYDROCHLORIC ACID	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2797	BATTERY FLUID, ALKALI	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	П		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1788	HYDROBROMIC ACID	8	П		T11	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1787	HYDRIODIC ACID	8	П		T11	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1784	HEXYLTRICHLOROSILANE	8	Π		Τ7	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2796	SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID	8	П		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	Description	Clubb	10	risk	Old	New		Description of changes
2790	ACETIC ACID SOLUTION, not less than 50% but not more than 80% acid, by mass more than 10% and less than 50%, by mass	8	Π		T4	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2751	DIETHYLTHIOPHOSPHORYL CHLORIDE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1939	PHOSPHORUS OXYBROMIDE	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	Π		Т4	T11	TP1 TP27	Minimum test pressure increased from 2.65 bar to 6 bar.
1940	THIOGLYCOLIC ACID	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2031	NITRIC ACID, other than red fuming, with not more than 70% nitric acid	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2079	DIETHYLENETRIAMINE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2681	CAESIUM HYDROXIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2679	LITHIUM HYDROXIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2677	RUBIDIUM HYDROXIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1783	HEXAMETHYLENEDIAMINE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1782	HEXAFLUOROPHOSPHORIC ACID	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1781	HEXADECYLTRICHLORO-SILANE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1780	FUMARYL CHLORIDE	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
3320	SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide by mass	8	Π		T18	Τ7	TP2	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
1779	FORMIC ACID	8	П		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1778	FLUOROSILICIC ACID	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2226	BENZOTRICHLORIDE	8	Π		T15	T7	TP2	Bottom openings would be allowed and would require three effective means of closure.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
2259	TRIETHYLENETETRAMINE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2262	DIMETHYLCARBAMOYL CHLORIDE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2308	NITROSYLSULPHURIC ACID	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2584	ALKYSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid	8	Π		T10	Т8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would not be allowed.
2571	ALKYLSULPHURIC ACIDS	8	Π		T11	Т8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1776	FLUOROPHOSPHORIC ACID, ANHYDROUS	8	П		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1775	FLUOROBORIC ACID	8	П		T21	Т7	TP2	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.
1771	DODECYLTRICHLOROSILANE	8	П		Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2705	1-PENTOL	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1769	DIPHENYLDICHLOROSILANE	8	Π		Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1768	DIFLUOROPHOSPHORIC ACID, ANHYDROUS	8	П		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2576	PHOSPHORUS OXYBROMIDE, MOLTEN	8	П		T10	Т7	TP3 TP11 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1766	DICHLOROPHENYLTRICHLORO- SILANE	8	Π		Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1765	DICHLOROACETYL CHLORIDE	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2577	PHENYLACETYL CHLORIDE	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

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Description of changes	3/AC 52
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UN	Description	Class	PG	Sub	T-C	Code	TP Note	Description of changes
No				risk	Old	New		
1764	DICHLOROACETIC ACID	8	Π		T11	T8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1763	CYCLOHEXYLTRICHLORO-SILANE	8	Π		Τ7	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1762	CYCLOHEXENYLTRICHLORO- SILANE	8	Π		Τ7	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1760	CORROSIVE LIQUID, N.O.S.	8	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2-C12 homologues)	8	П		T4	Т3	TP1	Bottom openings would require two effective means of closure.
1757	CHROMIC FLUORIDE SOLUTION	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1755	CHROMIC ACID SOLUTION	8	Π		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1753	CHLOROPHENYLTRICHLORO- SILANE	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1743	BORON TRIFLUORIDE PROPIONIC ACID COMPLEX	8	П		T11	T8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2434	DIBENZYLDICHLOROSILANE	8	П		Τ7	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1742	BORON TRIFLUORIDE ACETIC ACID COMPLEX	8	П		T11	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1736	BENZOYL CHLORIDE	8	Π		Т8	T8	TP2 TP12 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2435	ETHYLPHENYLDICHLORO-SILANE	8	Π		Τ7	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2442	TRICHLOROACETYL CHLORIDE	8	Π		Т8	T20	TP2	Minimum test pressure increased from 2.65 bar to 10 bar. The minimum shell thickness would be increased from 6mm to 8mm. A frangible disc would be required in series with the relief device in all cases.
1731	ANTIMONY PENTACHLORIDE SOLUTION	8	Π		T10	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No				risk	Old	New		
1730	ANTIMONY PENTACHLORIDE, LIQUID	8	Π		Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1729	ANISOYL CHLORIDE	8	Π		T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2443	VANADIUM OXYTRICHLORIDE	8	Π		Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2513	BROMOACETYL BROMIDE	8	Π		Т8	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1728	AMYLTRICHLOROSILANE	8	Π		Τ7	Τ7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1719	CAUSTIC ALKALI LIQUID, N.O.S.	8	Π		T13	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar.
1716	ACETYL BROMIDE	8	Π		Т9	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2685	N,N-DIETHYLETHYLENEDIAMINE	8	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2826	ETHYL CHLOROTHIOFORMATE	8	Π	3	T13	T20	TP2	Minimum test pressure increased from 4 bar to 10 bar. The minimum shell thickness would be 8mm in all cases regardless of the tank diameter. Bottom openings would not be allowed. A frangible disc would be required in series with the relief device in all cases.
1724	ALLYLTRICHLOROSILANE, STABILIZED	8	Π	3	Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2051	2-DIMETHYLAMINOETHANOL	8	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2683	AMMONIUM SULPHIDE SOLUTION	8	П	3, 6.1	T13	T7	TP2 TP13	No change in requirements.
2686	2-DIETHYLAMINOETHANOL	8	П	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2357	CYCLOHEXYLAMINE	8	Π	3	Τ7	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2619	BENZYLDIMETHYLAMINE	8	П	3	T2	T7	TP2	Minimum test pressure increased from 1.5 bar to 4 bar.
2218	ACRYLIC ACID, INHIBITED	8	П	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2502	VALERYL CHLORIDE	8	П	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2258	1,2-PROPYLENEDIAMINE	8	П	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	8	Π	3	T19	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	P			risk	Old	New		
1604	ETHYLENEDIAMINE	8	Π	3	T13	T7	TP2	No change in requirements.
2986	CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.	8	Π	3	T18	T11	TP2 TP27	Minimum test pressure increased from 4 bar to 6 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	8	Π	3	Τ4	T11	TP2 TP27	Minimum test pressure increased from 2.65 to 6 bar.
1816	PROPYLTRICHLOROSILANE	8	Π	3	Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2248	DI-n-BUTYLAMINE	8	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1767	DIETHYLDICHLOROSILANE	8	Π	3	Τ7	Т7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1747	BUTYLTRICHLOROSILANE	8	Π	3	Τ7	T7	TP2 TP13	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
1715	ACETIC ANHYDRIDE	8	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2789	ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid, by mass	8	Π	3	T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2264	DIMETHYLCYCLOHEXYLAMINE	8	Π	3	T4	T7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
1802	PERCHLORIC ACID with not more than 50% acid, by mass	8	П	5.1	Т5	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. Bottom openings would be allowed and would require three effective means of closure.
2030	HYDRAZINE HYDRATE or HYDRAZINE, AQUEOUS SOLUTION with not less than 37% but not more than 64% hydrazine, by mass	8	Π	6.1	T15	Τ7	TP2 TP13	Bottom openings would be allowed and would require three effective means of closure.
1761	CUPRIETHYLENEDIAMINE SOLUTION	8	Π	6.1	Τ7	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2818	AMMONIUM POLYSULPHIDE SOLUTION	8	Π	6.1	T13	Т7	TP2 TP13	No change in requirements.
1790	HYDROFLUORIC ACID, solution, with not more than 40% hydrofluoric acid	8	Π	6.1	Τ7	Т8	TP2 TP12	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.

UN	Description	Class	PG	Sub		Code	TP Note	Description of changes
No				risk	Old	New		
1732	ANTIMONY PENTAFLUORIDE	8	Π	6.1	Т9	Τ7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8	Π	6.1	T20	Τ7	TP2	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. Bottom openings would be allowed and would require three effective means of closure. A frangible disc would no longer be required in series with the relief device.
1811	POTASSIUM HYDROGENDIFLUORIDE	8	П	6.1	T4	Т7	TP2	Minimum test pressure increased from 2.65 bar to 4 bar.
2817	AMMONIUM HYDROGENDIFLUORIDE SOLUTION	8	Π	6.1	T15	Т8	TP2 TP12 TP13	No change in requirements.
2580	ALUMINIUM BROMIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
2579	PIPERAZINE	8	Ш		T4	T4	TP1	No change in requirements.
2531	METHACRYLIC ACID, INHIBITED	8	Ш		T4	T4	TP1 TP18	No change in requirements.
2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2-C12 homologues)	8	Ш		T4	Т3	TP1	Bottom openings would require two effective means of closure.
1840	ZINC CHLORIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
1848	PROPIONIC ACID	8	Ш		T4	T4	TP1	No change in requirements.
1902	DIISOOCTYL ACID PHOSPHATE	8	Ш		Т3	T4	TP1	Bottom opening requirements changed from two effective means of closure to three.
1908	CHLORITE SOLUTION	8	Ш		T4	T4	TP2 TP24	No change in requirements.
2837	BISULPHATES, AQUEOUS SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
2834	PHOSPHOROUS ACID	8	Ш		T3	Т3	TP1	No change in requirements.
2829	CAPROIC ACID	8	Ш		T1	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar. Bottom opening requirements changed from two effective means of closure to three.
2823	CROTONIC ACID	8	Ш		T13	T4	TP1	Minimum test pressure decreased from 4 bar to 2.65 bar.
2820	BUTYRIC ACID	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2819	AMYL ACID PHOSPHATE	8	Ш		T4	T4	TP1	No change in requirements.
1824	SODIUM HYDROXIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
1819	SODIUM ALUMINATE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
3066	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing	8	Ш		T4	T4	TP1	No change in requirements.

Description	Class	PG	Sub	<u>T-C</u>	ode	TP Note	Description of changes
			risk	Old	New		
N-AMINOETHYLPIPERAZINE	8	Ш		T4	T4	TP1	No change in requirements.
DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.	8	Ш		T4	Т7	TP1 TP 28	Minimum test pressure increased from 2.65 bar to 4 bar.
POTASSIUM HYDROXIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
ALKYLPHENOLS, LIQUID, N.O.S. (including C2-C12 homologues)	8	Ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
PHOSPHORIC ACID	8	Ш		T4	T4	TP1	No change in requirements.
ISOPROPYL ACID PHOSPHATE	8	Ш		Т3	T4	TP1	Bottom opening requirements changed from two effective means of closure to three.
HYPOCHLORITE SOLUTION	8	ш		T4	T4	TP2 TP12 TP24	No change in requirements.
HYDROCHLORIC ACID	8	Ш		Т7	T4	TP1 TP12	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	Ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
HYDRIODIC ACID	8	Ш		Т7	T4	TP1	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
ACETIC ACID SOLUTION, not less than 50% but not more than 80% acid, by mass more than 10% and less than 50%, by mass	8	III		Τ4	T4	TP1	No change in requirements.
BUTYRIC ANHYDRIDE	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	Ш		T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
BISULPHITES, AQUEOUS	8	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.

Minimum test pressure decreased from 4 bar to 2.65 bar.

No change in requirements.

No change in requirements.

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SOLUTION, N.O.S.

SOLUTION

CAESIUM HYDROXIDE SOLUTION

LITHIUM HYDROXIDE SOLUTION

RUBIDIUM HYDROXIDE

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Ш

T13

T4

Τ4

8

8

8

TP1

TP2

TP1

T4

T4

T4

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UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	-			risk	Old	New		
1783	HEXAMETHYLENEDIAMINE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
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	Ш		T13	Τ7	TP1	No change in requirements.
2209	FORMALDEHYDE SOLUTION with not less than 25% formaldehyde	8	ш		Т2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2214	PHTHALIC ANHYDRIDE with more than 0.05% of maleic anhydride	8	Ш		T4	T4	TP3	No change in requirements.
2215	MALEIC ANHYDRIDE	8	Ш		T4	T4	TP3	No change in requirements.
2225	BENZENESULPHONYL CHLORIDE	8	Ш		T4	T4	TP1	No change in requirements.
3320	SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide by mass	8	Ш		T18	T4	TP2	Minimum test pressure decreased from 4 bar to 2.65 bar. The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter. A frangible disc would no longer be required in series with the relief device.
2586	ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid	8	Ш		Τ4	T4	TP1	No change in requirements.
2289	ISOPHORONEDIAMINE	8	Ш		T4	T4	TP1	No change in requirements.
2326	TRIMETHYLCYCLOHEXYLA-MINE	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2320	TETRAETHYLENEPENTAMINE	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2581	ALUMINIUM CHLORIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
2582	FERRIC CHLORIDE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
2565	DICYCLOHEXYLAMINE	8	Ш		T4	T4	TP1	No change in requirements.
2511	2-CHLOROPROPIONIC ACID	8	Ш		T4	T4	TP2	No change in requirements.
2564	TRICHLOROACETIC ACID SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
1760	CORROSIVE LIQUID, N.O.S.	8	Ш		T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
2327	TRIMETHYLHEXAMETHYLENE- DIAMINES	8	Ш		T4	T4	TP1	No change in requirements.
1757	CHROMIC FLUORIDE SOLUTION	8	Ш		Т4	T4	TP1	No change in requirements.
1755	CHROMIC ACID SOLUTION	8	Ш		Т7	T4	TP1 TP12	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
3055	2-(2-AMINOETHOXY)ETHANOL	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.

UN	Description	Class	PG	Sub	T-C	ode	TP Note	Description of changes
No	20001-0001			risk	Old	New		
1731	ANTIMONY PENTACHLORIDE SOLUTION	8	Ш		Т7	T4	TP1	The minimum shell thickness would be 5mm for shells not more than 1.80 m in diameter or 6mm for shells more than 1.80 m in diameter.
2496	PROPIONIC ANHYDRIDE	8	Ш		T2	T4	TP1	Minimum test pressure increased from 1.5 bar to 2.65 bar.
2269	3,3'-IMINODIPROPYLAMINE	8	Ш		T4	T4	TP2	No change in requirements.
1719	CAUSTIC ALKALI LIQUID, N.O.S.	8	Ш		T4	T7	TP1 TP28	No change in requirements.
2491	ETHANOLAMINE or ETHANOLAMINE SOLUTION	8	Ш		T4	T4	TP1	No change in requirements.
1718	BUTYL ACID PHOSPHATE	8	Ш		T4	T4	TP1	No change in requirements.
2818	AMMONIUM POLYSULPHIDE SOLUTION	8	Ш	6.1	T4	T4	TP1 TP13	No change in requirements.
2817	AMMONIUM HYDROGENDIFLUORIDE SOLUTION	8	Ш	6.1	T4	T4	TP1 TP12 TP13	No change in requirements.
2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8	Ш	6.1	T4	T7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
1761	CUPRIETHYLENEDIAMINE SOLUTION	8	Ш	6.1	T4	Т7	TP1 TP28	Minimum test pressure increased from 2.65 bar to 4 bar.
3257	ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 !C and below its flash point (including molten metals, molten salts, etc.)	9	III		T2	T2	TP3 TP11	No change in requirements.
1941	DIBROMODIFLUOROMETHANE	9	Ш		T24	T11	TP2	No change in requirements.
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	Ш		T2	T4	TP1 TP29	Minimum test pressure increased from 1.5 bar to 2.65 bar.
1990	BENZALDEHYDE	9	Ш		T2	T2	TP1	No change in requirements.

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Annex 2

GUIDELINES FOR ASSIGNING PORTABLE TANK REQUIREMENTS TO SUBSTANCES IN CLASSES 3 TO 9

1. These guidelines for assigning portable tank requirements to substances in Classes 3 to 9 are provided as a reference to be used for assigning portable tank requirements to specific substances. The guidelines were developed taking into consideration the hazards of dangerous goods and their physical and chemical characteristics.

2. The guidelines provide guidance for assigning specific requirements including minimum test pressures, minimum shell thicknesses, pressure-relief device arrangements and bottom opening closure requirements for portable tanks used to transport substances in Classes 3 to 9.

3. For certain substances the tank requirements recommended by these guidelines may not be appropriate owing to unique characteristics of the substance not addressed in these guidelines. In these instances expert judgement should be applied in assigning appropriate requirements. For example bottom openings may not be appropriate for substances corrosive to ship structures.

4. The guidelines are provided in two parts. Part I provides general guidance. Part II provides specific guidance for groups of substances organized on the basis of the Class or Division, Packing Group and subsidiary risk.

Part I General Guidelines

5. In assigning tank requirements to a substance the following should be taken into account:

5.1 **Prohibited Substances**: Some substances should be prohibited from transport in portable tanks. These substances are considered too dangerous for transport typically because of their instability or because they pose an unacceptably high level of risk when transported in bulk quantities under normal conditions of transport. The following substances are prohibited from transport in portable tanks:

- Substances of Class 1;
- Desensitised explosives in Division 4.1;
- Self-reactive substances (other than type F) and related substances of Division 4.1;
- Organic peroxides of Division 5.2 other than type F;
- Radioactive materials other than Low Specific Activity (LSA) non-fissile or fissile excepted materials.

Additional prohibited substances are specifically identified in the Model Regulations. Furthermore, some substances may only be transported on the basis of an approval by the competent authority.

5.2 *Minimum Shell Thicknesses*: The minimum shell thicknesses prescribed are provided in thicknesses relevant to reference steel with a guaranteed minimum tensile strength of 370 N/mm² and a guaranteed minimum elongation of 27%. When other materials are used equivalent thickness calculations should be

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performed. Minimum thicknesses range from 5 mm to 10 mm. Part II of the guidelines provide guidance for assigning minimum thicknesses. Granular or powdered solid substances of PG II or III may be transported in tanks with minimum shell thicknesses of 5 mm in the reference steel regardless of the tank diameter when 6.6.2.4.2 is specified relevant to a given substance. Regardless of the minimum thickness specified in Part II, if the thickness determined in accordance with the provisions of sections 6.6.2.4 is greater, the greater thickness shall be applied.

5.3 *Corrosive Effects of Substances on Materials of Construction*: The minimum thicknesses prescribed do not take a substance's corrosive effects into account. The consignor must ensure that the tank materials of construction are compatible with the lading.

5.4 *Minimum Test Pressures*: Irrespective of the pressure assigned in these guidelines, the minimum test pressure assigned to an individual substance should be the greater of the pressure determined on the basis of the definitions in 6.6.2.1 of the Model Regulations and the pressure assigned in these guidelines.

5.5 *Pressure-Relief Devices Requirements*: Two pressure relief device requirements are possible,

(1) Normal (N) (where the provisions of paragraph 6.6.2.8.1 apply);or (2) 6.6.2.8.3.

When paragraph 6.6.2.8.3 is referenced, a frangible disk must be provided in series preceding the pressure relief device. Paragraph 6.6.2.8.3 should be assigned to substances that:

- have the potential to polymerize or to produce solid or highly viscous substances capable of preventing proper operation of the relief valve;

meet the inhalation toxicity criteria at the PG I level.

In addition, 6.6.2.8.3 is also specified for individual substances as specified in the dangerous goods list based on the decisions of the Committee of Experts.

5.6 *Bottom Openings*: Three possible bottom opening arrangements are proposed, 6.6.2.6.3 (which indicates three serially mounted means of closure), 6.6.2.6.2 (two serially mounted means of closure) or NA (Not Allowed). [Bottom openings are not allowed for PG I and II substances which are highly corrosive to steel].

5.7 *Filling Limits*: Three different filling restrictions are possible. The filling limits are considered operational requirements. The filling limits do not have a direct relationship to the construction of the tank or the arrangement of the service equipment. On this basis, filling limits are not addressed in Part II of this Annex and will not be included in the tank type designations. The maximum filling limit for a substance should be consistent with the provisions under "Filling" in Chapter 4.2 of the Model Regulations. The shipper of the dangerous goods has the ultimate responsibility for assuring portable tanks are not filled in excess of the specified limits for each substance, solution or mixture transported.

5.8 *Molten Substances*: Assignments for molten substances of all classes should be based on the requirements established for liquids of the same class, division, packing group and subsidiary risk of the substance.

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Part II

Specific guidelines for assigning portable tank requirements to groups of substances

In assigning tank requirements to a substance the following shall be taken into account:

6.1 For substances in **CLASS 3, PG III without a subsidiary risk** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T2 or T4	1.5 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\underline{*}$ / A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T4). A minimum test pressure of 2.65 bar applies for n.o.s. entries (T4).

6.2 For substances in **CLASS 3, PG III with a Division 6.1 or a Class 8 subsidiary risk** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T4 or T7	2.65 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\frac{*}{}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T7). A minimum test pressure of 4 bar applies for n.o.s. entries (T7).

	6.3	For substances in CLASS 3 , PG II without subsidiary risks , the following requirements shall apply:
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Portable Tank	Minimum	Minimum shell	Pressure	Bottom openings
Instruction	test pressure	thickness	relief device	
T4 or T7	2.65 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\underline{*}$ / A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraph 6.6.2.1 of the Model Regulations (T7). A minimum test pressure of 4 bar applies for n.o.s. entries (T7).

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6.4 For substances in **CLASS 3, PG II with Division 6.1 or Class 8 subsidiary risks** the following requirements shall apply:

Portable Tank	Minimum	Minimum shell	Pressure	Bottom openings
Instruction	test pressure	thickness	relief device	
T7 or T11	4.0 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3 <u>**</u> /

 $\underline{*}$ / A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraph 6.6.2.1 of the Model Regulations (T11). A minimum test pressure of 6 bar applies for n.o.s. entries (T11).

**/ Bottom openings not allowed for substances which are highly corrosive to steel (T8).

6.5 For substances in **CLASS 3**, **PG I**, substances in **CLASS 3**, **PG I** with a Division 6.1 **PG II or III** subsidiary risk and substances in **CLASS 3**, **PG I** with a Class 8 **PG II or III subsidiary risk**, the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T11, T12, T15 or T16	6 bar <u>*</u> /	6.6.2.4.2	Normal <u>**</u> /	6.6.2.6.3

 $\underline{*}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T15 or T16).

**/ Some substances in this category require 6.6.2.8.3 (T12 or T16).

Note: For Class 3 PG I substances with subsidiary risks which are assigned to n.o.s. entries the guidelines in 6.6 shall be applied. Expert judgement may need to be applied owing to the unique characteristics of certain substances in order to determine bottom opening and pressure relief device requirements.

6.6 For substances in **CLASS 3, PG I with a Division 6.1, PG I subsidiary risk**, and substances in **CLASS 3, PG I with Class 8, PG I subsidiary risk**, the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T14 or T19	6 bar <u>*</u> /	6 mm	6.6.2.8.3	NA

 $\underline{*}$ / A higher minimum test pressure may be used depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T19).

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6.7 The following requirements shall apply for: Flammable solids in DIVISION 4.1, PG II and III, Solid substances in DIVISION 4.2, PG II and III (*none currently assigned to portable tanks*), Solid substances in DIVISION 5.1, PG II and III, Solid substances in DIVISION 6.1, PG II and III, Solid substances in CLASS 8, PG II and III, Solid substances in CLASS 9, PG II and III

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T1, T2, T3, T4	1.5 bar <u>*</u> /	6.6.2.4.2 <u>**/</u>	Normal	6.6.2.6.3 <u>***</u> /

*/ A higher minimum test pressure may be used depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T3 or T4). A minimum test pressure of 2.65 bar may apply for some n.o.s. entries (excluding Division 4.1 substances) (T3 or T4).

 $\frac{**}{}$ Granular or powdered solid substances may be transported in tanks with minimum shell thicknesses of 5 mm in the reference steel regardless of the tank diameter.

 $\frac{***}{}$ All granular or powdered solid substances and some highly viscous or crystallizable substances are permitted to be transported in portable tanks with two serially fitted and mutually independent shut-off devices in accordance with 6.6.2.6.2 (T1 or T3).

6.8 For **liquid** substances in **DIVISION 4.2**, **PG I** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T21	10 bar	10 mm	Normal	NA

6.9 For substances in **DIVISION 4.3, PG II and III with or without subsidiary risks** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T11	6 bar	6.6.2.4.2	Normal	6.6.2.6.3

6.10 For substances in **DIVISION 4.3, PG I with or without subsidiary risks** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T9, T10, T13 or T14	4 bar <u>*</u> /	6 mm	Normal <u>*</u> */	NA

 $\underline{*}$ / A higher minimum test pressure may be used depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations.(T13 or T14).

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**/ Some substances (e.g. chlorosilanes) require 6.6.2.8.3 (T10 or T14).

6.11 For **solutions of solid oxidizers in DIVISION 5.1, PG II and III**, the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T4 or T7	2.65 <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\underline{*}$ A higher minimum test pressure may be used depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T7).

6.12 For substances in **DIVISION 5.1, PG II (hydrogen peroxides solutions) with a subsidiary risk of Class 8** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
Т7	4 bar	6.6.2.4.2	Normal	6.6.2.6.3

<u>*/</u> Certain substances require a venting device.

6.13 For substances in **DIVISION 5.1, PG I with subsidiary risk of Class 8** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T10*	4 bar	6 mm	6.6.2.8.3	NA

<u>*</u>/ Several substances in this group are assigned tank requirements based on expert judgement owing to their unique characteristics (i.e. T20, T22 for inhalation toxicity substances).

6.14 For substances in **DIVISION 5.1, PG I with a Class 8 and a Division 6.1 subsidiary risk** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T22	10 bar	10 mm	6.6.2.8.3	NA

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6.15 For substances in **DIVISION 5.2, PG II (Type F Organic Peroxides)** and **self-reactive substances, type F, in DIVISION 4.1**, the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T23	4 bar	6.6.2.4.2	6.6.2.8.2 4.2.1.13.6 4.2.1.13.7 4.2.1.13.8	6.6.2.6.3

Note: Organic peroxides, type F and self-reactive substances, type F, are only permitted in portable tanks when they are listed in Portable Tank Instruction T20. All others are prohibited unless approved by the competent authority.

6.16 For **liquid** substances in **DIVISION 6.1 PG III** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T4 or T7	2.65 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\underline{*}$ / A higher minimum test pressure may be used depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T7). A minimum test pressure of 4 bar applies for n.o.s. entries (T7).

6.17 For liquid substances in **DIVISION 6.1 PG II with or without subsidiary risks** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T7 or T11	4 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3 <u>**</u> /

 $\frac{*}{}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T11). A minimum test pressure of 6 bar applies for n.o.s. entries (T11).

**/ Bottom openings not allowed for substances which are highly corrosive to steel (T8).

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6.18 For substances in **DIVISION 6.1 PG I (non-inhalation hazard) with or without subsidiary risks** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T14 or T19	6 bar <u>*</u> /	6 mm	6.6.2.8.3	NA

 $\underline{*}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T19).

6.19 For substances in **DIVISION 6.1 PG I** (inhalation toxicity hazard) with or without subsidiary risks the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T20 or T22	10 bar	10 or 8 mm <u>*</u> /	6.6.2.8.3	NA

 \pm A minimum thickness of 10 mm shall be applied to highly toxic substances based on expert judgement owing to the unique characteristics (i.e. volatility) of the substances (T22).

6.20 Class 7 assignments are not dealt with in this document.

6.21 For **liquid** substances in **CLASS 8 PG III** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T4 or T7	2.65 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\frac{*}{}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T7). A minimum test pressure of 4 bar applies for n.o.s. entries (T7).

6.22 For **liquid** substances in **CLASS 8 PG II with or without a subsidiary risk** the following requirements shall apply:

Portable tank instruction	Minimum test pressure	Minimum shell thickness	Pressure relief device	Bottom openings
T7 or T11	4 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3 <u>**</u> /

 $\frac{*}{}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T11). A minimum test pressure of 6 bar applies for n.o.s. entries (T11).

**/ Bottom openings not allowed for substances which are highly corrosive to steel (T8).

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6.23 For **liquid** substances in **CLASS 8 PG I with or without a subsidiary risk** the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T10 or T14*	4 bar <u>*</u> /	6 mm	6.6.2.8.3	NA

 $\underline{*}$ / A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T14). A minimum test pressure of 6 bar applies for n.o.s. entries (T14).

 $\frac{**}{}$ Several substances in this group are assigned tank requirements based on expert judgement owing to their unique characteristics (i.e. T20, T22 for inhalation toxicity substances).

6.24 For **liquid** substances in **CLASS 9**, the following requirements shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	trickness	relief device	
T2 or T4	1.5 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.3

 $\frac{*}{}$ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T4). A minimum test pressure of 2.65 bar applies for n.o.s. entries (T4).

6.25	For elevated	temperature substan	ces in CLASS 9 the fo	ollowing requirements	shall apply:

Portable tank	Minimum	Minimum shell	Pressure	Bottom openings
instruction	test pressure	thickness	relief device	
T1 or T3	1.5 bar <u>*</u> /	6.6.2.4.2	Normal	6.6.2.6.2

*/ A higher minimum test pressure may be required depending on the absolute vapour pressure of the substance at 65 °C and the pressure prescribed using the definitions for design and test pressure in paragraphs 6.6.2.1 of the Model Regulations (T3).

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Annex 3

UN No	Description	Class	Sub- Risk	PG	Propose d T- Code	Proposed Special Tank Provision
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.		6.1	Ι	T14	TP2,TP9 TP13
1988	ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.	3	6.1	Ι	T14	TP2,TP9 TP13
2251	BICYCLO[2.2.1]HEPTA-2,5-DIENE, INHIBITED (2,5- NORBORNADIENE, INHIBITED)	3		Π	T4	TP1
2280	HEXAMETHYLENEDIAMINE, SOLID	8		Ш	T3	TP1, TP11
2315	POLYCHLORINATED BIPHENYLS	9		П	T2	TP1
2651	4,4'-DIAMINODIPHENYLMETHANE	6.1		Ш	T3	TP1, TP11
2758	CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2760	ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Π	T11	TP1, TP13
2762	ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	I	T14	TP2,TP9 TP13
2764	TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C		6.1	Ι	T14	TP2,TP9 TP13
2772	THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C		6.1	П	T11	TP1, TP13
2776	COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2778	MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2780	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2782	BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2784	ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9 TP13
2787	ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Π	T11	TP1, TP13
2845	PYROPHORIC LIQUID, ORGANIC, N.O.S.	4.2		Ι	T21	TP2, TP7
2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	6.1	8	Ι	T11	TP2,TP9 TP13
2949	SODIUM HYDROSULPHIDE with not less than 25 percent water of crystallization	8		Π	T7	TP2
3021	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9
3024	COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C	3	6.1	Ι	T14	TP2,TP9
3025	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23°C	6.1	3	Ι	T14	TP2,TP9
3026	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC	6.1		II	T11	TP2, TP27
3064	NITROGLYCERIN, SOLUTION IN ALCOHOL with more than 1 percent but not more than 5 percent nitroglycerin	3		Π	T4	TP1
3079	METHACRYLONITRILE, INHIBITED	3	6.1	Ι	T14	TP2
3346	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 degrees C	3	6.1	Π	T11	TP2 TP13 TP27
3350		3	6.1	Ι	T14	TP2,TP9

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