



Secretariat

Distr.  
GENERAL

ST/SG/AC.10/C.3/2005/53  
13 September 2005

Original: ENGLISH

---

**COMMITTEE OF EXPERTS ON THE TRANSPORT OF  
DANGEROUS GOODS AND ON THE GLOBALLY  
HARMONIZED SYSTEM OF CLASSIFICATION  
AND LABELLING OF CHEMICALS**

Sub-Committee of Experts on the  
Transport of Dangerous Goods

Twenty-eighth session, 28 November-7 December 2005  
Item 6 of the provisional agenda

**MISCELLANEOUS PROPOSALS OF AMENDMENTS TO THE  
MODEL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS**

Transmitted by the expert from the United States of America

1. The expert from the United States of America proposed amendments to the portable tank special provisions in UN/SCETDG/27/INF.23. Several Sub-Committee members provided comments on the proposals and it was agreed that a formal proposal should be submitted for consideration at the twenty-eighth session. The Sub-Committee is invited to consider a number of amendments to the portable tank special provisions (TP notes).

**Proposals:**

2. It is proposed that the following changes be made to the existing portable tank special provisions:

a. **Delete TP6.** TP6 applies to Hydrogen peroxides (UN 2014, 2015, 2984 and 3149) and Chloroprene, UN 1991. This provision is not necessary. Pressure-relief devices are already required for all substances. These requirements are referenced within the Portable Tank Instructions and in Chapter 6.7 (see 6.7.2.7.1). TP6 repeats what is already stated in Chapter 6.7.

b. **Delete TP9.** TP9 states "A substance under this description shall only be transported in a portable tank under an approval granted by the competent authority." This TP note is unnecessary and burdensome to both consignors and competent authorities because it mandates that a competent authority approval be issued. The entries assigned TP9 are n.o.s. entries that already have tank instructions and special provisions indicated in the Dangerous Goods List. All of the entries assigned TP9 already have conservative tank assignments because they are n.o.s. entries. Over the last 10 years, the competent authority of the United States of America has issued numerous TP9 approvals for the transport of substances assigned TP9, and in every case the approval authorization has been identical to that

authorized by the tank instructions and Special Provisions shown in the Dangerous Goods List. Based on discussion with other competent authorities we believe our experience is not isolated. It is recommended that TP9 be deleted unless members of the Sub-Committee can provide examples of cases where they have imposed alternative or additional conditions. A list of substances assigned TP9 is attached as Annex 1.

c. **Delete TP12.** TP12 states “This substance is highly corrosive to steel”. The designation “highly corrosive to steel” is not defined or established by specific criteria and appears to be based on expert judgement. The TP itself does not apply a requirement as is the case with almost every other TP. It is simply a statement. It is not even apparent whether all highly corrosive substances are assigned to TP12. A list of substances assigned TP12 is provided in the annex to this paper.

## Annex 1 (English only)

Substances assigned TP9 in the UN Model Regulations (based on 13<sup>th</sup> revised edition)

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
1993	FLAMMABLE LIQUID, N.O.S.	TP1 TP9 TP27	3	I		274	T11
3295	HYDROCARBONS, LIQUID, N.O.S.	TP1 TP8 TP9 TP28	3	I			T11
1989	ALDEHYDES, N.O.S.	TP1 TP9 TP27	3	I		274	T11
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	TP1 TP8 TP9	3	I			T11
1992	FLAMMABLE LIQUID, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3021	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3273	NITRILES, FLAMMABLE, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2776	COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2758	CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3346	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2760	ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3350	PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
1988	ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2772	THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2778	MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
2782	BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2762	ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2784	ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3024	COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2764	TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2780	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
2787	ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	TP2 TP9 TP13 TP27	3	I	6.1	274	T14
3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	TP2 TP9 TP13 TP27	3	I	6.1 8	274	T14
2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	TP2 TP9	3	I	8	274	T14
2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	TP1 TP9 TP27	3	I	8	274	T14
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	TP1 TP8 TP9 TP28	3	II			T7
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	TP1 TP9 TP29	3	III		223	T4
3200	PYROPHORIC SOLID, INORGANIC, N.O.S.	TP7 TP9 TP33	4.2	I		274	T21
1383	PYROPHORIC METAL, N.O.S. or PYROPHORIC ALLOY, N.O.S.	TP7 TP9 TP33	4.2	I		274	T21
2845	PYROPHORIC LIQUID, ORGANIC, N.O.S.	TP2 TP7 TP9	4.2	I		274	T22
3051	ALUMINIUM ALKYL	TP2 TP7 TP9	4.2	I	4.3	320	T21
3052	ALUMINIUM ALKYL HALIDES, LIQUID	TP2 TP7 TP9	4.2	I	4.3	320	T21

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
2988	CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.	TP2 TP7 TP9 TP13	4.3	I	3 8		T10
3375	AMMONIUM NITRATE EMULSION or SUSPENSION or GEL, intermediate for blasting explosives	TP1 TP9 TP17 TP32	5.1	II		309	T1 T2
1935	CYANIDE SOLUTION, N.O.S.	TP2 TP9 TP13 TP27	6.1	I			T14
3440	SELENIUM COMPOUND, LIQUID, N.O.S.	TP2 TP9 TP27	6.1	I			T14
3020	ORGANOTIN PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3026	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
2788	ORGANOTIN COMPOUND, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		43 274	T14
2902	PESTICIDE, LIQUID, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3352	PYRETHROID PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
2998	TRIAZINE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3348	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3016	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3014	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3012	MERCURY BASED PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3010	COPPER BASED PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
1556	ARSENIC COMPOUND, LIQUID, N.O.S., inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.	TP2 TP9 TP13 TP27	6.1	I		43	T14
2996	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3006	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13	6.1	I		61 274	T14
3276	NITRILES, TOXIC, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274 315	T14

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
3278	ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		43 274 315	T14
3281	METAL CARBONYLS, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274 315	T14
3280	ORGANOARSENIC COMPOUND, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274 315	T14
3282	ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274	T14
3287	TOXIC LIQUID, INORGANIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274 315	T14
2810	TOXIC LIQUID, ORGANIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I		274 315	T14
2992	CARBAMATE PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
2994	ARSENICAL PESTICIDE, LIQUID, TOXIC	TP2 TP9 TP13 TP27	6.1	I		61 274	T14
3382	TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>	TP2 TP9 TP13	6.1	I		274	T20
3381	TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>	TP2 TP9 TP13	6.1	I		274	T22
2588	PESTICIDE, SOLID, TOXIC, N.O.S.	TP9 TP33	6.1	I		61 274	T6
2026	PHENYLMERCURIC COMPOUND, N.O.S.	TP9 TP33	6.1	I		43	T6
3467	ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.	TP9 TP33	6.1	I		274	T6
2811	TOXIC SOLID, ORGANIC, N.O.S.	TP9 TP33	6.1	I		274	T6
3284	TELLURIUM COMPOUND, N.O.S.	TP9 TP33	6.1	I			T6
3466	METAL CARBONYLS, SOLID, N.O.S.	TP9 TP33	6.1	I		274	T6
3465	ORGANOARSENIC COMPOUND, SOLID, N.O.S.	TP9 TP33	6.1	I		274	T6
3464	ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.	TP9 TP33	6.1	I		43 274	T6

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
3462	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	TP9 TP33	6.1	I		210 274	T6
3448	TEAR GAS SUBSTANCE, SOLID, N.O.S.	TP9 TP33	6.1	I		274	T6
3439	NITRILES, TOXIC, SOLID, N.O.S.	TP9 TP33	6.1	I		274	T6
3349	PYRETHROID PESTICIDE, SOLID, TOXIC	TP9 TP33	6.1	I		61 274	T6
3345	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC	TP9 TP33	6.1	I		61 274	T6
1544	ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.	TP9 TP33	6.1	I		43 274	T6
3288	TOXIC SOLID, INORGANIC, N.O.S.	TP9 TP33	6.1	I		274	T6
3285	VANADIUM COMPOUND, N.O.S.	TP9 TP33	6.1	I			T6
3283	SELENIUM COMPOUND, SOLID, N.O.S.	TP9 TP33	6.1	I			T6
1655	NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S.	TP9 TP33	6.1	I		43	T6
2025	MERCURY COMPOUND, SOLID, N.O.S.	TP9 TP33	6.1	I		43 66	T6
3143	DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.	TP9 TP33	6.1	I		274	T6
3146	ORGANOTIN COMPOUND, SOLID, N.O.S.	TP9 TP33	6.1	I		43 274	T6
1588	CYANIDES, INORGANIC, SOLID, N.O.S.	TP9 TP33	6.1	I		47 274	T6
1557	ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.	TP9 TP33	6.1	I		43	T6
1601	DISINFECTANT, SOLID, TOXIC, N.O.S.	TP9 TP33	6.1	I		274	T6
3019	ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3017	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
2903	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
3351	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
2997	TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3015	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I	3	274 315	T14
2993	ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3013	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3009	COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3025	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
2991	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3011	MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
2995	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3279	ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.	TP2 TP9 TP13 TP27	6.1	I	3	43 274 315	T14
3347	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13 TP27	6.1	I	3	61 274	T14
3005	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C	TP2 TP9 TP13	6.1	I	3	61 274	T14
3275	NITRILES, TOXIC, FLAMMABLE, N.O.S.	TP2 TP9 TP13 TP27	6.1	I	3	274 315	T14



UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
3384	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC50	TP2 TP9 TP13	6.1	I	3	274	T20
3383	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC50	TP2 TP9 TP13	6.1	I	3	274	T22
2930	TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.	TP9 TP33	6.1	I	4.1	274	T6
3124	TOXIC SOLID, SELF-HEATING, N.O.S.	TP9 TP33	6.1	I	4.2	274	T6
3386	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC50	TP2 TP9 TP13	6.1	I	4.3	274	T20
3385	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC50	TP2 TP9 TP13	6.1	I	4.3	274	T22
3125	TOXIC SOLID, WATER-REACTIVE, N.O.S.	TP9 TP33	6.1	I	4.3	274	T6
3388	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC50	TP2 TP9 TP13	6.1	I	5.1	274	T20
3387	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC50	TP2 TP9 TP13	6.1	I	5.1	274	T22
3086	TOXIC SOLID, OXIDIZING, N.O.S.	TP9 TP33	6.1	I	5.1	274	T6
3289	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I	8	274 315	T14

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	TP2 TP9 TP13 TP27	6.1	I	8	274 315	T14
3390	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>	TP2 TP9 TP13	6.1	I	8	274	T20
3389	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>	TP2 TP9 TP13	6.1	I	8	274	T22
2928	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.	TP9 TP33	6.1	I	8	274	T6
3290	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	TP9 TP33	6.1	I	8	274	T6
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	TP2 TP9 TP27	8	I		274	T14
1760	CORROSIVE LIQUID, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3145	ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)	TP2 TP9	8	I			T14
2801	DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	TP2 TP9 TP27	8	I		274	T14
3147	DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.	TP9 TP33	8	I		274	T6
3263	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.	TP9 TP33	8	I		274	T6
1759	CORROSIVE SOLID, N.O.S.	TP9 TP33	8	I		274	T6
3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	TP9 TP33	8	I		274	T6
3261	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	TP9 TP33	8	I		274	T6

UN	Name	Portable tank SP	Class	PG	Sub-risk	SP	TI
3259	AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.	TP9 TP33	8	I		274	T6
2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2-C12 homologues)	TP9 TP33	8	I			T6
3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	TP9 TP33	8	I		274	T6
2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	TP2 TP9 TP27	8	I	3	274	T14
2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	TP2 TP9 TP27	8	I	3	274	T14
2921	CORROSIVE SOLID, FLAMMABLE, N.O.S.	TP9 TP33	8	I	4.1	274	T6
3095	CORROSIVE SOLID, SELF-HEATING, N.O.S.	TP9 TP33	8	I	4.2	274	T6
3096	CORROSIVE SOLID, WATER-REACTIVE, N.O.S.	TP9 TP33	8	I	4.3	274	T6
3084	CORROSIVE SOLID, OXIDIZING, N.O.S.	TP9 TP33	8	I	5.1	274	T6
2922	CORROSIVE LIQUID, TOXIC, N.O.S.	TP2 TP9 TP13 TP27	8	I	6.1	274	T14
2923	CORROSIVE SOLID, TOXIC, N.O.S.	TP9 TP33	8	I	6.1	274	T6

**Annex 2 (English only)**

**Substances assigned TP12 in the UN Model Regulations (based on 13<sup>th</sup> revised edition)**

UN#	Name	Class	PG	S.R.	Portable Tank instruction	Portable Tank Special Provisions
1716	ACETYL BROMIDE	8	II		T8	TP2 TP12
1717	ACETYL CHLORIDE	3	II	8	T8	TP2 TP12
1736	BENZOYL CHLORIDE	8	II		T8	TP2 TP12 TP13
1737	BENZYL BROMIDE	6.1	II	8	T8	TP2 TP12 TP13
1738	BENZYL CHLORIDE	6.1	II	8	T8	TP2 TP12 TP13
1739	BENZYL CHLOROFORMATE	8	I		T10	TP2 TP12 TP13
1742	BORON TRIFLUORIDE ACETIC ACID COMPLEX, LIQUID	8	II		T8	TP2 TP12
1743	BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, LIQUID	8	II		T8	TP2 TP12
1744	BROMINE or BROMINE SOLUTION	8	I	6.1	T22	TP2 TP10 TP12 TP13
1745	BROMINE PENTAFLUORIDE	5.1	I	6.1 8	T22	TP2 TP12 TP13
1746	BROMINE TRIFLUORIDE	5.1	I	6.1 8	T22	TP2 TP12 TP13
1754	CHLORO-SULPHONIC ACID (with or without sulphur trioxide)	8	I		T20	TP2 TP12
1755	CHROMIC ACID SOLUTION	8	III		T4	TP1 TP12
1755	CHROMIC ACID SOLUTION	8	II		T8	TP2 TP12
1758	CHROMIUM OXYCHLORIDE	8	I		T10	TP2 TP12
1764	DICHLOROACETIC ACID	8	II		T8	TP2 TP12
1768	DIFLUOROPHOSPHORIC ACID, ANHYDROUS	8	II		T8	TP2 TP12
1776	FLUOROPHOSPHORIC ACID, ANHYDROUS	8	II		T8	TP2 TP12
1777	FLUOROSULPHONIC ACID	8	I		T10	TP2 TP12
1778	FLUROSILICIC ACID	8	II		T8	TP2 TP12
1782	HEXAFLUOROPHOSPHORIC ACID	8	II		T8	TP2 TP12
1786	HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE	8	I	6.1	T10	TP2 TP12 TP13
1789	HYDROCHLORIC ACID	8	II		T8	TP2 TP12
1789	HYDROCHLORIC ACID	8	III		T4	TP1 TP12
1790	HYDROFLUORIC ACID, with more than 60% hydrogen fluoride	8	I	6.1	T10	TP2 TP12 TP13
1790	HYDROFLUORIC ACID, with not more than 60% hydrogen fluoride	8	II	6.1	T8	TP2 TP12
1796	NITRATING ACID MIXTURE with not more than 50% nitric acid	8	II		T8	TP2 TP12 TP13

UN#	Name	Class	PG	S.R.	Portable Tank instruction	Portable Tank Special Provisions
1796	NITRATING ACID MIXTURE with more than 50% nitric acid	8	I	5.1	T10	TP2 TP12 TP13
1798	NITROHYDROCHLORIC ACID	8	I		T10	TP2 TP12 TP13
1817	PYROSULPHURYL CHLORIDE	8	II		T8	TP2 TP12
1826	NITRATING ACID MIXTURE, SPENT, with more than 50% nitric acid	8	I	5.1	T10	TP2 TP12 TP13
1826	NITRATING ACID MIXTURE, SPENT, with not more than 50% nitric acid	8	II		T8	TP2 TP12
1828	SULPHUR CHLORIDES	8	I		T20	TP2 TP12
1829	SULPHUR TRIOXIDE, STABILIZED	8	I		T20	TP4 TP12 TP13 TP25 TP26
1830	SULPHURIC ACID with more than 51% acid	8	II		T8	TP2 TP12
1831	SULPHURIC ACID, FUMING	8	I	6.1	T20	TP2 TP12 TP13
1832	SULPHURIC ACID, SPENT	8	II		T8	TP2 TP12
1834	SULPHURYL CHLORIDE	8	I		T20	TP2 TP12
1836	THIONYL CHLORIDE	8	I		T10	TP2 TP12 TP13
1873	PERCHLORIC ACID with more than 50% but not more than 72% acid, by mass	5.1	I	8	T10	TP1 TP12
1906	SLUDGE ACID	8	II		T8	TP2 TP12 TP28
2031	NITRIC ACID, other than red fuming, with more than 70% nitric acid	8	I	5.1	T10	TP2 TP12 TP13
2031	NITRIC ACID, other than red fuming, with not more than 70% nitric acid	8	II		T8	TP2 TP12
2032	NITRIC ACID, RED FUMING	8	I	5.1 6.1	T20	TP2 TP12 TP13
2240	CHROMOSULPHURIC ACID	8	I		T10	TP2 TP12 TP13
2308	NITROSULPHURIC ACID, LIQUID	8	II		T8	TP2 TP12
2353	BUTYRYL CHLORIDE	3	II	8	T8	TP2 TP12 TP13
2513	BROMOACETYL BROMIDE	8	II		T8	TP2 TP12
2571	ALKYLSULPHURIC ACIDS	8	II		T8	TP2 TP12 TP13 TP28
2584	ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid	8	II		T8	TP2 TP12 TP13
2692	BORON TRIBROMIDE	8	I		T20	TP2 TP12 TP13

UN#	Name	Class	PG	S.R.	Portable Tank instruction	Portable Tank Special Provisions
2699	TRIFLUOROACETIC ACID	8	I		T10	TP2 TP12
2796	SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID	8	II		T8	TP2 TP12
2817	AMMONIUM HYDROGEN-DIFLUORIDE SOLUTION	8	II	6.1	T8	TP2 TP12 TP13
2817	AMMONIUM HYDROGEN-DIFLUORIDE SOLUTION	8	III	6.1	T4	TP1 TP12 TP13
2879	SELENIUM OXYCHLORIDE	8	I	6.1	T10	TP2 TP12 TP13
3246	METHANESULPHONYL CHLORIDE	6.1	I	8	T14	TP2 TP12 TP13

|