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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

**Working Party on the Transport
of Dangerous Goods**

**Meeting of Experts on the European Provisions
concerning the International Carriage of
Dangerous Goods by Inland Waterway (ADN)**
(Third session, Geneva, 17-21 January 2000)

**EUROPEAN PROVISIONS CONCERNING THE INTERNATIONAL CARRIAGE
OF DANGEROUS GOODS BY INLAND WATERWAY (ADN)**

PROPOSALS OF AMENDMENTS TO ANNEX B.2, APPENDIX 4

Transmitted by the Central Commission for the Navigation of the Rhine (CCNR)

The secretariat reproduces below the amendments to Annex B.2, Appendix 4 proposed by CCNR (see TRANS/WP.15/AC.2/4/Add.1).

Amend the table of list of substances (Annex B.2, Appendix 4) as follows:

1. Insert "5;" in column 20 for the entries relating to the following numbers:

1092, 1093, 1218, 1247, 1991, 2055, 2227, 3079 et 3295 (substances with $61\text{ }^{\circ}\text{C} < \text{f.p.} \leq 100\text{ }^{\circ}\text{C}$, n.o.s. (2-ethylhexylacrylate, stabilized)).

2. Delete "5;" in column 20 for the entries relating to the following numbers:

1114, 1120, 1123, 1143, 1145, 1165, 1264, 1301, 1307 (XYLENES (p-xylene)), 1547, 1578 (and add "26"), 1604, 1605, 1662 (delete also "6: +10 °C;"), 1663, 1664 (twice), 1708 (p-toluidine), 1764 (delete also "6: +14 °C"), 1750, 1779, 1780, 1783, 1917, 1919, 1987 (cyclohexanol), 2021, 2022, 2048, 2054, 2076, 2078, 2205 (delete also "6: +6 °C"), 2206, 2215, 2238, 2239, 2259 (delete also "6: +16 °C; 17"), 2280, 2289 (delete also "6: +14 °C"), 2312, 2321, 2348, 2382, 2430, 2477, 2491 (delete also "6: +14 °C"), 2527, 2564, 2651, 2789 (twice) et 2811 (twice).

3. Delete "7" in column 20 for the entries relating to the following numbers: 1999 and 2531.
4. Delete "6: +17 °C" in column 20 for the entry relating to the number 2218.
5. Replace "1" par "2" in column 12 for the entry relating to the number 2490.
6. Replace "-" par "+" in column 17 for the last entry relating to the number 2810.

7. Add the following entries to the table:

Identification No	Name of substance	Class, item number and letter	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20 °C	Type of sampling device	Cargo pump-room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Flammable gas detector required	Toxinometer required	Number of blue lights/cones	Other requirements/Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1160	DIMETHYLAMINE AQUEOUS SOLUTION	3, 22° b)	3 + 8	C	2	2	3	50	95	0.82	2	yes	T2	II B ⁴⁾	+	+	-	1	23
1276	N-PROPYL ACETATE	3, 3° b)	3	N	2	2		10	97	0.88	3	yes	T1	II A	+	+	-	1	
1541	ACETONE CYANOHYDRIN, STABILIZED	6.1, 12° a)	6.1 + unst.	C	2	2		50	95	0.932	1	no	-	-	-	-	+	2	3
1578	CHLORONITROBENZENES (p-chloronitrobenzene)	6.1, 12° b)	6.1	C	2	1	2	25	95	1.37	2	no	T4 ³⁾	II B ⁴⁾	+	+	+	2	7; 17; 26
1578	CHLORONITROBENZENES (p-chloronitrobenzene)	6.1, 12° b)	6.1	C	2	1	2	25	95	1.37	2	no	-	-	-	-	+	2	7; 17; 20: +112°C; 26
1663	NITROPHENOLS	6.1, 12° c)	6.1	C	2	2	2	25	95		2	no	T1	II B ⁴⁾	+	+	+	0	7; 17
1663	NITROPHENOLS	6.1, 12° c)	6.1	C	2	2	2	25	95		2	no	-	-	-	-	+	0	7; 17; 20: +85°C
1664	NITROTOLUENES (p-nitrotoluene, molten)	6.1, 12° b)	6.1	C	2	2	2	25	95	1.16	2	no	-	-	-	-	+	2	7; 17; 20: +88°C
1708	TOLUIDINES (p-toluidine)	6.1, 12° b)	6.1	C	2	2	2	25	95	1.05	2	no	-	-	-	-	+	2	7; 17; 20: +72°C
1750	CHLOROACETIC ACID SOLUTION	6.1, 27° b)	6.1 + 8	C	2	2	2	25	95	1.58	2	no	-	-	-	-	+	2	7; 17; 20: +111°C
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. < 23 °C boiling-point ≤ 60 °C	3, 17° a) 3, 17° b)	3 + 6.1	C	1	1			95		1	no	T4 ³⁾	II B ⁴⁾	+	+	+	2	

Identification No	Name of substance	Class, item number and letter	Hazards	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the high-velocity vent valve in kPa	Maximum degree of filling in %	Relative density at 20 °C	Type of sampling device	Cargo pump-room below deck permitted	Temperature class	Explosion group	Protection against explosions required	Flammable gas detector required	Toximeter required	Number of blue lights/cones	Other requirements/Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. < 23 °C 60 °C < boiling-point ≤ 85 °C	3, 17° b)	3 + 6.1	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	2	23
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. ≥ 23 °C 60 °C < boiling-point ≤ 85 °C	3, 32° c)	3 + 6.1	C	2	2	3	50	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	1	23
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. < 23 °C 85 °C < boiling-point ≤ 115 °C	3, 17° b)	3 + 6.1	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	2	
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. ≥ 23 °C 85 °C < boiling-point ≤ 115 °C	3, 32° c)	3 + 6.1	C	2	2		50	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	1	
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. < 23 °C boiling-point > 115 °C	3, 17° b)	3 + 6.1	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	2	
1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (...) f.p. ≥ 23 °C boiling-point >115 °C	3, 32° c)	3 + 6.1	C	2	2		35	95		2	no	T4 ³⁾	II B ⁴⁾	+	+	+	1	
1987	ALCOHOLS, FLAMMABLE, N.O.S. (...) (cyclohexanol)	3, 31° c)	3	N	3	2	2		95	0.95	3	yes	-	-	-	-	-	1	7; 17; 20: +53°C
2076	CRESOLS	6.1, 27° b)	6.1 + 8	C	2	2	2	25	95	1.03-1.05	2	no	-	-	-	-	+	2	7; 17; 20: +70°C

Other requirements/Remarks	Number of blue lights/cones	Toximeter required	Flammable gas detector required	Protection against explosions required	Explosion group	Temperature class	Cargo pump-room below deck permitted	Type of sampling device	Relative density at 20 °C	Maximum degree of filling in %	Opening pressure of the high-velocity vent valve in kPa	Cargo tank equipment	Cargo tank type	Cargo tank design	Type of tank vessel	Hazards	Class, item number and letter	Name of substance	Identification No
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
2; 7; 8; 17; 20: +112°C	2	+	-	-	-	-	no	2	1.22	95	25	2	2	2	C	6.1	6.1, 19° b)	TOLUENE DIISOCYANATE (2,4-toluene diisocyanate) AND ISOMERIC MIXTURES	2078
7; 17; 20: +88°C	0	-	-	-	-	-	yes	3	0.93	95		2	3	3	N	8	8, 31° c)	MALEIC ANHYDRIDE	2215
7; 17; 20: +70°C	0	-	-	-	-	-	yes	3	0.83	95		2	3	3	N	8	8, 52° c)	HEXAMETHYLENEDIAMINE, SOLID, MOLTEN	2280
7; 17; 20: +67°C	2	+	-	-	-	-	no	2	1.07	95	25	2	2	2	C	6.1	6.1, 24° b)1.	PHENOL, MOLTEN	2312
7; 17; 20: +95°C	0	+	-	-	-	-	no	2	1.45	95	25	2	2	2	C	6.1	6.1, 15° c)	TRICHLOROBENZENES, LIQUID (1,2,4-trichlorobenzene)	2321
7; 17; 20: +125°C	0	-	-	-	-	-	yes	3	0.95	95		2	3	3	N	8	8, 39° b)	ALKYLPHENOLS, SOLID, N.O.S. (nonylphenol, isomeric mixture, molten)	2430
7; 17; 20: +111°C; 22	0	+	-	-	-	-	no	2		95	25	2	2	2	C	6.1	6.1, 25° c)	TOXIC SOLID, ORGANIC, N.O.S. (1,2,3-trichlorobenzène, molten)	2811
7; 17; 20: +92°C; 22	0	+	-	-	-	-	no	2		95	25	2	2	2	C	6.1	6.1, 25° c)	TOXIC SOLID, ORGANIC, N.O.S. (1,3,5-trichlorobenzène, molten)	2811
6: +7°C; 17	1	-	+	+	II B	T2	yes	3	0.9	97	10		3	2	N	8 + 3	8, 68° b)	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (aqueous solution of hexadecyl-trimethylaminechloro (50%) and ethanol (35%))	2920