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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

Working Party on the Transport of Dangerous Goods

Joint Meeting of Experts on the Regulations annexed to the  
European Agreement concerning the International Carriage  
of Dangerous Goods by Inland Waterways (ADN)\*  
(Ninth session, Geneva, 24-28 January 2005,  
agenda item 4)

**PROPOSALS FOR AMENDMENTS TO THE REGULATIONS  
ANNEXED TO ADN\*\***

**Table C**

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

The Central Commission for the Navigation of the Rhine (CCNR) proposes the following amendments to table C of the Regulations annexed to ADN 2005.

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

\*\* *Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR/ZKR/ADN/WP.15/AC.2/2005/3.*

**3.2.3** Amend as follows:

*Column (9)*

Amend as follows:

- “1. (no change)
2. Possibility of heating the cargo
3. (no change)
4. Cargo heating system on board”

*Column (20)*

*Remark 6:*

Replace the first two paragraphs by the following:

- “6. When external temperatures are below or equal to that indicated in column (20), the substance may only be carried in tank vessels equipped with a cargo heating system.”

*(remainder unchanged)*

*Remark 34:*

Beginning, amend to read:

- “34. For type N carriage, the flanges ...” *(remainder unchanged)*

Add the following new remarks:

- “35. A direct system for the cargo heating system is not permitted for this substance.
36. Only an indirect system for the cargo heating system is permitted for this substance.
37. For this substance, the cargo tank system shall be capable of resisting the vapour pressure of the cargo at higher ambient temperatures whatever the system adopted for the boil-off gas.
38. When the initial melting point of these mixtures in accordance with standard ASTM D86-01 is above 60° C, the transport requirements for packing group II are applicable.”

Note by the UNECE secretariat:

The UNECE secretariat notes that there is a difference between ADN and ADNR in the use of upper-case letters in column (2) of table C and suggests that ADN should be brought into line with ADNR.

Amend the entries of table C as follows:

UN number	Column	Amendment
1010 3rd position*	2	Read: BUTADIENE, STABILIZED or MIXTURES OF BUTADIENE AND HYDROCARBONS, STABILIZED, having a vapour pressure at 70° C not exceeding 1.1 MPa (11 bar) and a density at 50° C not lower than 0.525 kg/l
1170 1st position	12	Delete: “- 0.87”
1202 1st position	2 12	Add: “(flash-point not more than 61° C)” Insert: “< 0.85”
1307 1st position	4 19	Replace “II” by “III” Replace “1” by “0”
1307 3rd position	9	Insert “2”
1578 1st position	2	Read: “CHLORONITROBENZENES, SOLID, MOLTEN (p-CHLORONITROBENZENE)”
1578 2nd position	2 9	Read: “CHLORONITROBENZENES, SOLID, MOLTEN (p-CHLORONITROBENZENE)” Replace “2” by “4”
1662 1st position	20	Insert: “6:+10° C”
1662 2nd position		Delete
1663 2nd position	9	Replace “2” by “4”
1708 3rd and 4th positions		Delete
1750 2nd position	8 9 20	Replace “2” by “1” Replace “2” by “4” Add: “26”
1805 1st position	2 12	Read: “PHOSPHORIC ACID, SOLUTION, WITH MORE THAN 80% (VOLUME) ACID” Insert: “> 1.6”

UN number	Column	Amendment
1805 2nd position	2	Read: “PHOSPHORIC ACID, SOLUTION, WITH 80% (VOLUME) ACID, OR LESS”
1823	9	Replace “2” by “4”
1987 6th and 7th positions	2	End, add: “(CYCLOHEXANOL)”
1987 7th position	9	Replace “2” by “4”
1999	2	Does not concern the French version
2045	20	Delete: “7” Insert: “15; 23”
2078 2nd position	8 9 20	Replace “2” by “1” Replace “2” by “4” Add: “26”
2206	9	Replace “2” by “4”
2215 2nd position	9	Replace “2” by “4”
2218	9	Insert: “4”
2280 2nd position	9	Replace “2” by “4”
2303	20	Delete: “16”
2312 both positions	9	Replace “2” by “4”
2321	9	Replace “2” by “4”
2430 2nd position	8 9	Replace “3” by “1” Replace “2” by “4”
2448	9	Replace “2” by “4”
2531	9	Replace “2” by “4”
2811 2nd and 4th positions	9	Replace “2” by “4”
3175	9	Replace “2” by “4”
3257 both positions	9	Replace “2” by “4”
3446 2nd position	9	Replace “2” by “4”
3451 2nd position	9	Replace “2” by “4”
3455 2nd position	9	Replace “2” by “4”

UN number	Column	Amendment
9001	2	Read: “SUBSTANCES WITH A FLASH-POINT ABOVE 61° C handed over for carriage or carried at a TEMPERATURE WITHIN A RANGE OF 15 K BELOW THEIR FLASH-POINT or SUBSTANCES WITH A FLASH-POINT > 61° C, HEATED TO LESS THAN 15 K FROM THE FLASH-POINT”
9003 all positions	2	After “100° C”, insert “or SUBSTANCES WHERE 61° C < flash-point ≤ 100° C”
9004	9	Replace “2” by “4”

*\* Note by the UNECE secretariat: The description in lower case should be deleted in the first two positions.*

Insert as appropriate:

UN No. or substance identification No.	Name and description	Class	Classification code	Packing group	Labels	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	Pump room below deck permitted	Temperature class	Explosion group	Anti-explosion protection required	Equipment required	Number of cones/blue lights	Additional requirements/remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1202	DIESEL FUEL in accordance with standard EN 590:1993 or GAS OIL or HEATING OIL (LIGHT) with a flash-point defined in standard EN 590:1993	3	F1	III	3	N	4	2			97	0.82-0.85	3	Yes			No	PP	0	
1202	DIESEL FUEL or GAS OIL or HEATING OIL (LIGHT) (flash-point between 61° C and 100° C)	3	F1	III	3	N	4	2			97	< 1.1	3	Yes			No	PP	0	
1267	PETROLEUM CRUDE OIL vp 50 ≤ 110 kPa	3	F1	I	3	N	2	2		10	97		3	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	14; 29
1267	PETROLEUM CRUDE OIL WITH MORE THAN 10% BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	I	3	C	1	1			95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	29
1267	PETROLEUM CRUDE OIL WITH MORE THAN 10% BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	I	3	C	2	2	3	50	95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	23; 29
1267	PETROLEUM CRUDE OIL WITH MORE THAN 10% BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	II	3	C	2	2	3	50	95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	23; 29; 38

UN No. or substance identification No.	Name and description	Class	Classification code	Packing group	Labels	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	Pump room below deck permitted	Temperature class	Explosion group	Anti-explosion protection required	Equipment required	Number of cones/blue lights	Additional requirements/remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. 110 kPa < vp 50 ≤ 175 kPa	3	F1	I	3	N	2	2		50	97		3	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. OR PETROLEUM PRODUCTS, N.O.S. 110 kPa < vp 50 ≤ 150 kPa	3	F1	I	3	N	2	2	3	10	97		3	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. vp 50 ≤ 110 kPa	3	F1	I	3	N	2	2		10	97		3	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	14; 27; 29
1268	PETROLEUM DISTILLATES, WITH MORE THAN 10% BENZENE or PETROLEUM PRODUCTS, N.O.S. WITH MORE THAN 10% BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	I	3	C	1	1			95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	27; 29
1268	PETROLEUM DISTILLATES, N.O.S. WITH MORE THAN 10% BENZENE or PETROLEUM PRODUCTS, N.O.S. WITH MORE THAN 10% BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	I	3	C	2	2	3	50	95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	23; 27; 29

UN No. or substance identification No.	Name and description	Class	Classification code	Packing group	Labels	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	Pump room below deck permitted	Temperature class	Explosion group	Anti-explosion protection required	Equipment required	Number of cones/blue lights	Additional requirements/remarks
(1)	(2)	3 (a)	3 (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1268	PETROLEUM DISTILLATES, N.O.S. WITH MORE THAN 10% BENZENE or PETROLEUM PRODUCTS, N.O.S. WITH MORE THAN 10 % BENZENE vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	II	3	C	2	2	3	50	95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	23; 27; 29; 38
2381	DIMETHYL DISULPHIDE	3	F1	II	3	C	2	2		40	95	1.063	2	Yes	T2	II B	Yes	PP, EX, A	1	
2582	FERRIC CHLORIDE SOLUTION	8	C1	III	8	N	4	3			97	1.45	3	Yes			No	PP, EP	0	22; 30; 34
2785	4-THIAPENTANAL (3-METHYL MERCAPTO-PROPIONALDEHYDE)	6.1	T1	III	6.1	C	2	2		25	95	1.04	2	No			No	PP, EP, TOX, A	0	
3295	HYDROCARBONS, LIQUID, N.O.S. (... WITH MORE THAN 10% BENZENE) vp 50 ≤ 110 kPa BOILING POINT ≤ 60° C	3	F1	II	3	C	2	2	3	50	95		1	Yes	T4 <sup>3</sup>	II B <sup>4</sup>	Yes	PP, EX, A	1	23; 27; 29; 38

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