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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) (ADN Safety Committee)

Forty-second session

Geneva, 21-25 August 2023

Item 4 (b) of the provisional agenda

**Proposals for amendments to the Regulations annexed to ADN:
other proposals**

The reclassification of UN No. 1918, ISOPROPYLBENZENE (cumene) and substances containing cumene at or above 0.1 per cent

Transmitted by FuelsEurope

Summary

Related documents: Informal document INF.17 of the forty-first session
ECE/TRANS/WP.15/AC.2/84; par. 45-46 (Report of the forty-first session)

I. Executive Summary

1. This document contains two sets of proposals, which are captured under items A and B. Item A addresses the interim period between 23 November 2023 and 1 January 2025 (ADN 2025), and item B contains the detailed proposals for new and amended entries for affected substances in Table C, for entry into force on 1 January 2025 (ADN 2025).

2. For the above-mentioned interim period, and because of the new CMR properties for affected substances, FuelsEurope requests the Safety Committee to consider the use of the Multilateral Agreement instrument considering our proposals under Item A, which describe how to address the new transport requirements and Personal Protective Equipment (PPE)

3. For ADN 2025, FuelsEurope requests the Safety Committee to consider the proposals as tabled under item B, for new and revised entries in Table C, for entry into force on 1 January 2025 (ADN 2025) and to reconfirm the informal working group on Substances' mandate.

II. Current state

4. By informal document INF.17 of the forty-first session, FuelsEurope informed the Safety Committee about upcoming changes in the classification of Cumene to Carcinogenic Category 1B with effect of 23 November 2023.

5. Consequently, Cumene, and products containing Cumene in concentrations at or above 0.1 per cent must be reclassified under CLP for carcinogenicity, category 1B, unless they already carry that classification, or category 1A.

6. The substances identified as potentially containing Cumene in concentrations at or above 0.1 per cent are:

UN 1223 KEROSENE

UN 1307 XYLENES (3 entries)

UN 1863 FUEL, AVIATION, TURBINE ENGINE

And Cumene itself: UN No. 1918 ISOPROPYLBENZENE (cumene)

7. By the report of the forty-first session (ECE/TRANS/WP.15/AC.2/84, paragraphs 45 and 46), the informal working group on Substances has been mandated to review the proposals as reflected in informal document INF.17 and to advise on the way forward for the temporary solution until the entry into force of ADN 2025.

8. At the time of submitting this working document, a date for the next meeting of the informal working group on Substances had not yet been set but would not be prior to the forty-second session and so it cannot yet issue its advice during this session.

A. Proposal on how to address the interim period up to ADN 2025:

9. FuelsEurope therefore invites the Safety Committee to have a discussion on:

(a) how to make sure these substances can continue to be transported whilst considering the new carcinogenic aspect of the substances in the event these contain Cumene at or above 0.1%, effective 23 November 2023;

(b) how to make sure that personal protection equipment is prescribed in line with the substance's new carcinogenic property;

(c) In the case such substances contain cumene at the said levels, what would be the proper shipping name in accordance with 5.4.1.1.2. (g) to reflect on the transport document given that Table C does not yet provide options for UN Nos. 1223; 1307 and 1918 to be classified as CMR.

10. FuelsEurope's proposals for items 9a., b. and c. would be to:

(a) In line with our proposals as reflected under item B, prescribe a minimum barge requirement in line with the CMR properties, following the flow chart of 3.2.3.3, i.e.:

(i) **UN 1918: N-2-3**

(ii) **UN 1223: N-2-3**

(iii) **UN 1307 (entries 1 and 2): N-2-3**

(iv) **UN 1307 3rd entry: N-2-3-2;**

(b) Assign the following PPE when transporting above substances when they have the CMR properties, following the flow chart of ADN 3.2.3.3:

PP; EP; EX; TOX; A;

(c) Except for UN 1918 (which is Cumene in its pure form), add the following remark to the substance's proper shipping name on the transport document in accordance with 5.4.1.1.2:

“(containing cumene)”;

(d) Discuss the options to develop a temporary derogation from the requirements of ADN by means of a multilateral agreement (MA) in the context of ADN 1.5.1. from 23 November 2023 until 1 July 2025; and

(e) Describe therein to allow the transport of affected substances of UN Nos. 1918, 1223, and 1307 under the conditions of mentioned stricter vessel type and stricter PPE until such time that ADN 2025 comes into force.

B. Proposals for new and amended entries in Table C for 2025

11. FuelsEurope proposes the following amendments to Table C as well as new entries as follows (new text in bold and underlined; deleted text in strikethrough):

1. **Amended** entry for UN 1918 ISOPROPYLBENZENE (cumene) in 3.2.3.2 Table C:

UN No. or substance identification No.	Name and description	Class	Classification code	Packing group	Dangers	Type of tank vessel	Cargo tank design	Cargo tank type	Cargo tank equipment	Opening pressure of the pressure relief valve/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)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	3.1.2	2.2	2.2	2.1.1.3	5.2.2 / 3.2.3.1	1.2.1 / 7.2.2.0.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	7.2.4.21	3.2.3.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	1.2.1	1.2.1 / 3.2.3.3	1.2.1 / 3.2.3.3	8.1.5	7.2.5	3.2.3.1
1918	ISOPROPYLBENZENE (cumene)	3	F1	III	3+N2+ <u>CMR</u>	N	3 2	3			97	0,86	3	Yes	T2 ¹²	IIA ⁸	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	0	

2. **New** entry for UN 1223 KEROSENE in 3.2.3.2 Table C:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	3.1.2	2.2	2.2	2.1.1.3	5.2.2 / 3.2.3.1	1.2.1 / 7.2.2.0.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	7.2.4.21	3.2.3.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	1.2.1	1.2.1 / 3.2.3.3	1.2.1 / 3.2.3.3	8.1.5	7.2.5	3.2.3.1
1223	KEROSENE (containing cumene)	3	F1	III	3+N2+ <u>CMR</u>	N	3 2	3			97	≤ 0,83	3	Yes	T3	IIA ⁷⁾	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	0	14

3. 3 new entries for UN 1307 XYLENES in 3.2.3.2 Table C:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	3.1.2	2.2	2.2	2.1.1.3	5.2.2 / 3.2.3.1	1.2.1 / 7.2.2.0.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	7.2.4.21	3.2.3.1	3.2.3.1 / 1.2.1	3.2.3.1 / 1.2.1	1.2.1	1.2.1 / 3.2.3.3	1.2.1 / 3.2.3.3	8.1.5	7.2.5	3.2.3.1
1307	XYLENES (mixture containing cumene , with melting point $\leq 0^\circ\text{C}$)	3	F1	II	3+N2± CMR	N	3 2	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, EP , EX, TOX , A	1	
1307	XYLENES (mixture containing cumene , with melting point $\leq 0^\circ\text{C}$)	3	F1	III	3+N2± CMR	N	3 2	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, EP , EX, TOX , A	0	
1307	XYLENES (mixture containing cumene , with $0^\circ\text{C} < \text{melting point} \leq 13^\circ\text{C}$)	3	F1	III	3+N2± CMR	N	3 2	3	2		97		3	Yes	T1 ¹²	IIA	Yes	PP, EP , EX, TOX , A	0	6: +17 °C; 17

IV. Remarks

12. For UN No. 1863, it should be noted that ADN provides already possibilities to transport those substances as CMR. Therefore, no changes or amendments with respect to UN No. 1863 in Table C are required.

13. The proposals under paragraph 11 are limited to Table C of ADN only; as far as could be established, the added CMR properties does not trigger changes to the relevant entries of UN Nos. 1918; 1223 and 1307 in Table A of ADN. Similarly, no changes to these relevant entries will be required in ADR or RID.

V. Interlinkage to Sustainable Development Goals

14. New insights in the (additional) dangers of substances and considering its consequences on the ongoing safe handling, storage and transport of those hazardous materials can be linked to Sustainable Development Goal 3: Good health and well-being – Reducing health risks of hazardous materials.

15. As this links to sustainable transport, also Sustainable Development Goal 11 can be considered.

VI. Action to be taken

16. The Safety Committee is invited to have a discussion as proposed under paragraphs 9 and 10, and to act as it deems appropriate.

17. The informal working group on Substances is invited to consider the proposals and remarks under paragraphs 11, 12 and 13, for evaluation and discussion during its next meeting.
