



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) (ADN Safety Committee)

Forty-third session

Geneva, 22-26 January 2024

Item 5 (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)
ECE/TRANS/WP.15/AC.2/2023/45; Report of the thirteenth session of the informal working group on Substances (Berlin 13-14 September 2023)

I. Executive Summary

1. This document contains two sets of proposals, which follow the advice of the informal working group on Substances during its meeting in Berlin on 13 – 14 September 2023.
2. The proposals consider the entries which have been identified as possibly containing cumene at or above 0.1%, i.e., those under UN 1223 KEROSENE, UN No. 1307 XYLENES.
3. The informal working group on Substances will advise on FuelsEurope's proposal for UN No. 1918 ISOPROPYLBENZENE (Cumene), in their own report. UN No. 1863 FUEL,

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** A/78/6 (Sect. 20), table 20.5



AVIATION, TURBINE ENGINE, being a star position, already offers the option to classify as carcinogenic, mutagenic or toxic to reproduction (CMR).

4. For ADN 2025, FuelsEurope requests the ADN Safety Committee to decide if the proposals below under Option 1 or those under Option 2 can be considered as the new (revised) entries in Table C of Chapter 3.2, for entry into force on 1 January 2025.

II. Proposed options

Option 1: Amend entries in Table C of Chapter 3.2 for entry into force on 1 January 2025, reflecting the Cumene content in column (2)

5. The below proposals reflect the informal working group on Substances' advice to slightly change the initial wording and to distinguish between the entries. (**New text** in bold and underlined; ~~deleted text~~ in strikethrough).

6. Amend entry in Table C of Chapter 3.2 for UN No. 1223 KEROSENE containing **less than 0.1 % Cumene**

(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 (<u>containing < 0.1 % cumene</u>)	3	F1	III	3+N2+F	N	3	3			97	≤ 0,83	3	Yes	T3	IIA ⁷⁾	Yes	PP, EX, A	0	14

Note: to indicate the Cumene level below 0.1 %, the symbol "<" is used.

7. New entry in 3.2.3.2 Table C for UN 1223 KEROSENE containing **0.1 % Cumene or more**

(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 (<u>containing ≥ 0.1 % cumene</u>)	3	F1	III	3+N2± <u>CMR</u> +F	N	3 <u>2</u>	3			97	≤ 0,83	3	Yes	T3	IIA ⁷⁾	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	0	14

Note: to indicate the Cumene level at or above 0.1%, the symbol "≥" is used.

8. Amend three entries in Table C of Chapter 3.2 for UN No. 1307 XYLENES, containing less than 0.1 % Cumene

(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 <u>containing <</u> 0.1% cumene, with melting point \leq 0° C)	3	F1	II	3+N2	N	3	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, EX, A	1	
1307	XYLENES (mixture <u>containing <</u> 0.1% cumene, with melting point \leq 0° C)	3	F1	III	3+N2	N	3	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, EX, A	0	
1307	XYLENES (mixture <u>containing <</u> 0.1% cumene, with 0° C < melting point \leq 13° C)	3	F1	III	3+N2	N	3	3	2		97		3	Yes	T1 ¹²	IIA	Yes	PP, EX, A	0	6: +17 °C; 17

Note: to indicate the Cumene level below 0.1 %, the symbol "<" is used.

9. Three new entries in Table C of Chapter 3.2 for UN No. 1307 XYLENES, containing 0.1 % Cumene or more

(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 <u>containing \geq</u> 0.1% cumene, with melting point \leq 0° C)	3	F1	II	3+N2 \pm <u>CMR</u>	N	3 2	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	1	
1307	XYLENES (mixture <u>containing \geq</u> 0.1% cumene, with melting point \leq 0° C)	3	F1	III	3+N2 \pm <u>CMR</u>	N	3 2	3			97		3	Yes	T1 ¹²	IIA	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	0	
1307	XYLENES (mixture <u>containing \geq</u> 0.1% cumene, with 0° C < melting point \leq 13° C)	3	F1	III	3+N2 \pm <u>CMR</u>	N	3 2	3	2		97		3	Yes	T1 ¹²	IIA	Yes	PP, <u>EP</u> , EX, <u>TOX</u> , A	0	6: +17 °C; 17

Note: to indicate the Cumene level at or above 0.1%, the symbol " \geq " is used.

Option 2 : Amend entries in Table C of Chapter 3.2 for entry into force on 1 January 2025, as * positions

10. The below proposals consider the introduction of * positions to replace the existing entry under UN No. 1223 and 3 entries of UN No. 1307, as the informal working group on Substances reflected on this option in their report. (**New text** in bold and underlined; ~~deleted text~~ in strikethrough).

11. Amend entry in Table C of Chapter 3.2 for UN No. 1223 KEROSENE

(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	3	F1	III	3+N2(+ <u>CMR</u>)+F	N	3 * _	3 * _	* _	<u>10</u>	97	≤0.83	3	Yes	T3	IIA ⁷⁾	Yes	PP, EX, A*	0	14; * <u>see</u> <u>3.2.3.3</u>

12. Amend three entries in Table C of Chapter 3.2 for UN No. 1307 XYLENES

(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 with melting point ≤ 0° C)	3	F1	II	3+N2(+ <u>CMR</u>)	N	3 * _	3 * _	* _	<u>10</u>	97		3	Yes	T1 ¹²⁾	IIA	Yes	* _	1	* <u>See 3.2.3.3</u>
1307	XYLENES with melting point ≤ 0° C)	3	F1	III	3+N2(+ <u>CMR</u>)	N	3 * _	3 * _	* _	<u>10</u>	97		3	Yes	T1 ¹²⁾	IIA	Yes	* _	0	* <u>See 3.2.3.3</u>
1307	XYLENES with 0° C < melting point ≤ 13° C)	3	F1	III	3+N2(+ <u>CMR</u>)	N	3 * _	3 * _	2	<u>10</u>	97		3	Yes	T1 ¹²⁾	IIA	Yes	* _	0	6: +17 °C; 17; * <u>See</u> <u>3.2.3.3</u>

III. Justification

13. Option 1 increases the number of entries in Table C by four and offers instant clarity on the applicable transport conditions when cumene is present. However, if in future other CMR constituents would be present in the substance, this would create new discussions in the ADN Safety Committee.

14. Option 2 does not create extra entries in Table C, but it will require participants to follow the flowchart, schemes and criteria according to 3.2.3.3, to determine the applicable transport conditions. Star positions could be more future proof and would still apply in the event of other CMR constituents present in the substance besides cumene.

IV. Interlinkage to Sustainable Development Goals

15. 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.

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

V. Action to be taken

17. The ADN Safety Committee is invited to take into consideration the arguments and decide on the options presented under section II and to act as it deems appropriate.
