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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-first session

Geneva, 23–27 January 2023

Item 5 (b) of the provisional agenda

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

Proposals by the informal working group on substances

Transmitted by the Government of Germany* **

Introduction

1. The twelfth meeting of the informal working group on materials was held from 31 May to 2 June 2022. The meeting report was presented at the fortieth session of the ADN Safety Committee (informal document INF.12).
2. The Safety Committee examined and approved the proposals for amendments to the regulations annexed to ADN contained in the report of the informal working group on substances. The German delegation undertook to submit the proposals to the Safety Committee in a formal document for decision.
3. Unless otherwise indicated, the proposed changes apply to all four language versions.

Requests for amendments

I. Environmentally hazardous substances (flash-point > 60 °C and ≤ 100 °C), classified under UN No. 3082 or substance identification number 9003

4. The proposed amendment is to clarify that assignment to UN No. 3082 should take precedence over assignment to the ADN-specific identification number 9003 and to ensure

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** A/76/6 (Sect.20), para. 20.76.



that the information related to the flash-point of the substances carried is not lost. To this end, it is proposed that a new remark be added to column (20) of Table C to draw attention to the possibility of a low flash-point. Consequently, in the general entry for identification number 9003, the “N1” danger in Column (5) of Table C should be deleted, since compliance with the “N1” criteria would automatically result in assignment to UN No. 3082.

Proposal:

5. In 3.2.3.1, in the explanations concerning Table C, add the following new remark for column (20):

“xx The flash-point of the substances carried may vary between 60 °C and 100 °C.”

6. In 3.2.3.3 and 3.2.4.3, add the following remark for column (20):

“Remark xx: Reference shall be made in column (20) to remark xx for UN No. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEAVY FUEL OIL).”

7. In 3.2.3.2, Table C, in column (5) of the entry for substance identification No. 9003 “SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C BUT NOT MORE THAN 100 °C which are not affected to another class”, delete danger “N1”.

II. Substances that have no dangerous properties other than an auto-ignition temperature of ≤ 200 °C

8. If the flowchart in 3.2.3.3 is applied consistently, the first box results in substances that have no dangerous properties other than an auto-ignition temperature of ≤ 200 °C not being classified as dangerous goods. This is not justified in terms of safety.

Proposal:

9. In the first box of the flowchart in 3.2.3.3, after the second bullet point, insert the following additional bullet point:

“• Auto-ignition temperature ≤ 200 °C,”.

III. Missing remark 44 for UN No. 2924 and missing remark 34 for UN No. 1764 and UN No. 2430

10. For the second entry for UN No. 2924 “FLAMMABLE LIQUID, CORROSIVE, N.O.S.”, packing group III, where explosion subgroup “(II B3)” is indicated in column (16), remark 44 is missing in column (20). In addition, for the two entries for UN No. 2924 packing group III, column (20) contains the remark, which is exclusively assigned to substances of Class 8.

11. In the two entries for UN No. 2430 “ALKYLPHENOLS, SOLID, N.O.S. (NONYLPHENOL, ISOMERIC MIXTURE, MOLTEN)”, remark 34 is not indicated in column (20).

Proposals

12. In 3.2.3.2, Table C, in the first entry for UN No. 2924 “FLAMMABLE LIQUID, CORROSIVE, N.O.S.” packing group III (without “II B3”), delete “; 34” in column (20).

13. In 3.2.3.2, Table C, in the second entry for UN No. 2924 “FLAMMABLE LIQUID, CORROSIVE, N.O.S.” packing group III (with “II B3”), replace “; 34” by “; 44” in column (20).

14. In 3.2.3.2, Table C, for UN No. 1764 “DICHLOROACETIC ACID” and for UN No. 2430 “ALKYLPHENOLS, SOLID, N.O.S. (NONYLPHENOL, MIXED ISOMERS, MOLTEN)” (both entries), add “; 34” in column (20).

IV. Harmonization of explosion groups between the IBC Code and ADN

15. On the basis of a proposal from the European Chemical Industry Council (CEFIC) (informal document INF.21 of the thirty-sixth session), it is proposed to harmonize five entries in Table C with the details from the International Code for the Construction and Equipment of Ships Carrying Dangerous Goods in Bulk (IBC Code) for the explosion group. The details from the IBC Code should be supplemented by footnote 9), which specifies that the classification is taken from the IBC Code of the International Maritime Organization (IMO).

Proposal:

16. In 3.2.3.2, Table C, for
 UN No. 1108 “1-PENTENE (n-AMYLENE)”,
 UN No. 1157 “DIISOBUTYL KETONE”,
 UN No. 2323 “TRIETHYL PHOSPHITE”,
 UN No. 2370 “1-HEXENE” and
 UN No. 3079 “METHACRYLONITRILE, STABILIZED”,
 replace “II B⁴⁾” with “II A⁹⁾” in column (16).

V. Amendments to column (16) of Table C for UN No. 2527

17. Taking into account the guidance provided in informal document INF.21, submitted by CEFIC for the thirty-sixth session, on structure-property analogies with methyl-, ethyl- and n-butyl-substituted compounds, it is proposed to amend the guidance on explosion groups for UN No. 2527 “ISOBUTYL ACRYLATE, STABILIZED”.

Proposal:

18. In 3.2.3.2, Table C, for UN No. 2527 “ISOBUTYL ACRYLATE, STABILIZED”, in column (16), replace “II B⁹⁾” with “II B3¹⁴⁾”.

VI. Verification of all entries without a packing group in Table A for which the use of blue cones/lights is required

19. Blue cones (lights) are required for substances in Classes 3 to 9, depending on the classification code (flammable and/or toxic properties) and the packing group (packing groups I or II). Blue cones (lights) are generally not required for packing group III or for articles that, according to the system, are not assigned a packing group.

20. It is therefore proposed that, in Table A, for two entries with articles of Class 3, three entries with articles of Class 6.1 and two entries with articles of Class 9, the information in column (12) be amended to read “0”.

21. The system does not provide for packing groups for Class 2. The requirement for blue cones (lights) depends on the classification code (flammable and/or toxic properties). Here too, blue cones (lights) should not be required for articles containing gas. It is therefore proposed that “1” or “2” be replaced with “0” in in column (12) of Table A for seven entries of Class 2.

Proposal:

22. In Chapter 3.2, Table A, for UN No. 3540 “ARTICLES CONTAINING FLAMMABLE LIQUID, N.O.S.”, in column (12), replace “1” with “0”.

23. In Chapter 3.2, Table A, for UN No. 1700 “TEAR GAS CANDLES”, UN No. 2016 “AMMUNITION, TOXIC, NON-EXPLOSIVE without burster or expelling charge, non-fuzed” and UN No. 2017 “AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE without burster or expelling charge, non-fuzed”, in column (12), replace “2” with: “0”.

24. In Chapter 3.2, Table A, for UN No. 3473 “FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT containing flammable liquids”, UN No. 3359 “FUMIGATED CARGO TRANSPORT UNIT” and UN No. 3363 “DANGEROUS GOODS IN ARTICLES or DANGEROUS GOODS IN MACHINERY or DANGEROUS GOODS IN APPARATUS”, in column (12), insert “0”.

25. In Chapter 3.2, Table A, for UN No. 1057 “LIGHTERS or LIGHTER REFILLS containing flammable gas”, UN No. 3150 “DEVICES, SMALL, HYDROCARBON GAS POWERED or HYDROCARBON GAS REFILLS FOR SMALL DEVICES, with release device”, UN No. 3358 “REFRIGERATING MACHINES containing flammable, non-toxic, liquefied gas”, UN No. 3478 “FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing liquefied flammable gas”, UN No. 3479 “FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing hydrogen in metal hydride” and UN No. 3537 “ARTICLES CONTAINING FLAMMABLE GAS, N.O.S.”, in column (12), replace “1” with “0”.

26. In Chapter 3.2, Table A, for UN No. 3539 “ARTICLES CONTAINING TOXIC GAS, N.O.S.”, in column (12), replace “2” with “0”.

VII. Correction of an error in column (2) of Table C for UN No. 1972

27. In the English, German and Russian language versions of Table C, for the entry UN No. 1972 “METHANE, REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID with high methane content” in which carriage in membrane tanks (G-2-4) is provided for, the word “LIQUID” is missing (twice) in the name and description (column (2)).

28. In addition, there is a typographical error in the German language version, in remark 42 under the flowchart (3.2.3.3) and in the criteria for assignment of substances (3.2.4.3 L.).

Proposal:

29. In 3.2.3.2, Table C, in the English, German and Russian language versions, for the entry UN No. 1972 “METHANE, REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID with high methane content” for which transport in membrane tanks (G-2-4) is regulated, add “LIQUID” after “REFRIGERATED” (twice) in the name and description (column (2)).

30. In the German version, in remark 42 under the flowchart in 3.2.3.3 and in the criteria for assignment of substances, in 3.2.4.3 L, replace each occurrence of “TIEFGEHÜHLT” with “TIEFGEKÜHLT”.