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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, 24-27 January 2023

Report of the Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN Safety Committee) on its forty-first session*

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I. Attendance

1. The 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) held its forty-first session in Geneva from 24 to 27 January 2023, with Mr. H. Langenberg (Netherlands) as Chair and Mr. B. Birkhuber (Austria) as Vice-Chair.
2. Representatives of the following countries took part in the work of the session: Austria, Belgium, France, Germany, Luxembourg, Netherlands, Poland, Romania, Russian Federation and Switzerland.
3. The following intergovernmental organizations were represented: the Central Commission for the Navigation of the Rhine (CCNR), the Danube Commission and the European Union.
4. The following non-governmental organizations were also represented: European Barge Union (EBU), European Chemical Industry Council (Cefic), European Skippers Organisation (ESO), FuelsEurope, Grain and Feed Trade Association (GAFTA), International Committee for the Prevention of Work Accidents in Inland Navigation (CIPA), International Dangerous Goods and Containers Association (IDGCA) and Recommended ADN Classification Societies.

II. Organizational matters

5. Following the global recovery from impact of the COVID-19 pandemic, the United Nations Office in Geneva opted to return back to "Business As Usual". Therefore, the forty-first session of the Safety Committee was held again as an in-person meeting only. Due to a limited number of documents submitted to the secretariat, the Bureau of the ADN Safety Committee decided to start the session on Tuesday morning, 24 January 2023.

III. Adoption of the agenda (agenda item 1)

Documents: ECE/TRANS/WP.15/AC.2/83 (Secretariat)
ECE/TRANS/WP.15/AC.2/83/Add.1 (Secretariat)

Informal document: INF.1 (Secretariat)

6. The Safety Committee adopted the agenda prepared by the secretariat, as amended by informal document INF.1 to take account of informal documents INF.1 to INF.24.

IV. Election of officers for 2023 (agenda item 2)

7. On the proposal of the representative of France, the Safety Committee re-elected Mr. H. Langenberg (Netherlands) as chair and Mr. B. Birkhuber (Austria) as vice-chair, for its sessions in 2023.

V. Matters arising from the work of United Nations bodies or other organizations (agenda item 3)

Work of the Inland Transport Committee

8. The Safety Committee was informed that the eighty-fifth session of the Inland Transport Committee (ITC) will be held in Geneva from 21 to 24 February 2023. It was noted that, in addition to questions relating to its work and that of its subsidiary bodies, ITC will have the opportunity to resume consideration of the revised Terms of Reference of the Safety Committee. ITC will bring together transport leaders from the United Nations Member States

and key transport stakeholders from around the world with the aim to turn inland transport into a catalyst of climate solutions. The conference's high-level segment will take place on 21 February 2023. The theme of the conference is: "Actions of the inland transport sector to join the global fight against climate change.". It was noted that the transport sector accounts for a significant portion of global energy-related CO₂ emissions (23 per cent). Inland transport contributes more than 71 per cent of all transport related emissions. These figures highlight the critical importance of inland transport, and the great potential it has to be a nexus of change. The annotated provisional agenda (ECE/TRANS/327/Add.1) as well as the documentation for the ITC session are available at the UNECE secretariat's website¹.

VI. Implementation of the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (agenda item 4)

A. Status of ADN

9. The Safety Committee took note that the number (18) of contracting parties remained unchanged.

10. Proposed amendments contained in ECE/ADN/61 were communicated to Contracting Parties on 1 July 2022 for acceptance (C.N.158.2022.TREATIES-XI-D-6) and were deemed accepted on 1 October 2022 for entry into force on 1 January 2023 (C.N.325.2022.TREATIES-XI-D-6).

11. Proposed amendments contained in ECE/ADN/61/Add.1 were communicated to Contracting Parties on 1 September 2022 for acceptance under depositary notification C.N.272.2022.TREATIES-XI-D-6 and were deemed accepted on 1 December 2022, for entry into force on 1 January 2023.

12. Proposed corrections contained in ECE/ADN/61/Corr.1 and in annex IV of the report of the ADN Safety Committee on its fortieth session (ECE/TRANS/WP.15/AC.2/82), were communicated to Contracting Parties on 1 October 2022 for acceptance (C.N.292.2022.TREATIES-XI-D-6). As no objections were received by 30 December 2022, they were deemed accepted on 1 January 2023.

B. Special authorizations, derogations and equivalents

13. As no document had been submitted under this agenda sub-item, no discussion took place on this subject.

C. Interpretation of the Regulations annexed to ADN

Discussion on cargo transfer operations into another vessel

Informal document: INF.12 (Netherlands)

14. Taking into account the discussion on the document, the Safety Committee agreed that there was no need to develop further provisions for the cargo transfer operations.

¹ <https://unece.org/transport/events/itc-inland-transport-committee-85th-session>

D. Training of experts

1. Report on the twenty-third meeting of the informal working group on the training of experts

Document: ECE/TRANS/WP.15/AC.2/2023/3 (CCNR)

15. The Safety Committee took note of the outcome of the meeting of the informal working group on the training of experts, held in Strasbourg from 20-22 September 2022. It congratulated the informal working group for the work achieved. The Safety Committee noted that the substantive questions on chemicals had already been reviewed by a group organized by Germany in preparation for the meeting of the informal working group. Separate discussions on the substantive questions on gases were planned for the spring of 2023 to continue the review of the substantive questions.

16. Referring to paragraph 16 of the report, the representative of EBU/ESO clarified that the provisions in 7.2.4.15.2 of ADN allow but do not obligate a tank for residual products to be connected to a gas evacuation system. Furthermore, residual tanks and receptacles for residual products might contain another product than cargo tanks and via a connection of both venting systems a contamination of different products could occur.

2. Proposal to update the work schedule of the informal working group on the training of experts

Document: ECE/TRANS/WP.15/AC.2/2023/2 (CCNR)

17. The Safety Committee endorsed the revised work schedule in document ECE/TRANS/WP.15/AC.2/2023/2 of the informal working group on the training of experts.

3. Directive of the Administrative Committee on the use of the catalogue of questions for the ADN expert examination (Chapter 8.2)

Document: ECE/TRANS/WP.15/AC.2/2023/4 (CCNR)

18. The Safety Committee adopted the proposed amendments to the directive of the Administrative Committee on the use of the catalogue of questions for the ADN expert examination in accordance with Chapter 8.2 of the ADN as presented in document ECE/TRANS/WP.15/AC.2/2023/4.

4. Catalogue of questions 2023

Documents: ECE/TRANS/WP.15/AC.2/2023/10 (CCNR)
ECE/TRANS/WP.15/AC.2/2023/11 (CCNR)
ECE/TRANS/WP.15/AC.2/2023/12 (CCNR)

Informal documents: INF.2, INF.3 and INF.4 (CCNR)

19. The Safety Committee adopted the proposals in documents ECE/TRANS/WP.15/AC.2/2023/10 (general), ECE/TRANS/WP.15/AC.2/2023/11 (chemicals) and ECE/TRANS/WP.15/AC.2/2023/12 (gases) for updating the catalogue of questions to take account of the provisions of the 2023 edition of the ADN, with an additional correction.

20. On remarks from the representative of France, the Safety Committee invited the Chair of the informal working group on the training of experts to consider as soon as possible some further editorials and substantive corrections to allow an early publication of the catalogue of questions at the UNECE website.

21. It was recalled that Contracting Parties were invited to submit their model expert certificates to the UNECE secretariat so that the secretariat can make them available on the website. Countries were also invited to share their statistics on examinations

5. Report of the twenty-third and twenty-fourth meetings of the informal working group on the training of experts

Document: ECE/TRANS/WP.15/AC.2/2023/3 (CCNR)

Informal document: INF.8 (CCNR)

22. The Safety Committee welcomed the reports of the twenty-third and twenty-fourth meetings of the informal working group on the training of experts, which were held from 20 to 22 September and on 15 November 2022, respectively.

E. Matters related to classification societies

23. As no document had been submitted under this agenda sub-item, no discussion took place on this subject.

VII. Proposals for amendments to the Regulations annexed to the ADN (agenda item 5)

A. Work of the RID/ADR/ADN Joint Meeting

Documents: ECE/TRANS/WP.15/AC.1/166 (Report of the RID/ADR/ADN Joint Meeting on its autumn 2022 session)

ECE/TRANS/WP.15/260 (Report of the Working Party on the Transport of Dangerous Goods on its 112th session)

24. The Safety Committee took note of the ongoing discussions in the RID/ADR/ADN Joint Meeting on matters related to digitalization (electronic freight transport information) as reflected in the report on its autumn 2022 session (document ECE/TRANS/WP.15/AC.1/166, paragraphs 42 to 46). It also noted that the Joint Meeting would consider at its Spring 2023 session the proposals of amendment to RID, ADR and ADN originating from the work of the Sub-Committee and that the decisions taken would be brought to the attention of the ADN Safety Committee.

25. A member of the secretariat indicated that the outcome of a round table discussions on circular economy and sustainable use of natural resources, which was held during the November session of WP.15 in the context of the Inland Transport Committee strategy until 2030, was reflected in paragraphs 45 to 51 of the session's report ECE/TRANS/WP.15/260.

26. It was also noted that a document containing the draft amendments for RID/ADR and relevant to ADN would be submitted to the forty-second session of the Safety Committee for its consideration. The document would mainly include the draft amendments adopted by the Ad-hoc working group on the harmonisation of RID/ADR/ADN with the Model Regulations. This would allow the Safety Committee to address any harmonization issue at the Joint Meeting in September 2023.

B. Other proposals

1. Proposals of amendments from the informal working group on substances

Document: ECE/TRANS/WP.15/AC.2/2023/1 (Germany)

27. The Safety Committee adopted the amendments proposed in document ECE/TRANS/WP.15/AC.2/2023/1 with additional changes (see annexes I and III). It was clarified that in remark 47, which is added to one entry of UN 3082, the requirement for the transport document refers to the flashpoint range, instead of the actual flashpoint. The Safety Committee invited the informal working group on substances to further consider if the adopted amendments in paragraphs 12 to 14 of document ECE/TRANS/WP.15/AC.2/2023/1 were also relevant for UN Nos. 1198, 1289 and 2276. The informal working group was invited to check the possibility to include criteria and requirements into 3.2.3.3 for substances

other than of classes 3, 6.1, 8 and 9. It was noted that the editorial correction proposed in paragraph 30 was already included in the German edition of ADN 2023.

28. The Safety Committee recalled that a number of topics on which the informal working group on substances reported during the last session were still pending further discussion in the informal working group. The Safety Committee welcomed the informal working group to address these topics during their next meeting.

2. Approval of classification societies - Proposal to amend 1.15.3

Document: ECE/TRANS/WP.15/AC.2/2023/5 (Belgium and Luxembourg)

Informal document: INF.22 (Recommended ADN Classification Societies)

29. Following a detailed discussion on the proposal by the representatives of Belgium and Luxembourg, several delegations could support the amendments proposed in document ECE/TRANS/WP.15/AC.2/2023/5. In light of the concerns raised by the Recommended ADN Classification Societies in informal document INF.22, which the Safety Committee did not have time to study carefully, no consensus could be reached by the Safety Committee.

30. The Safety Committee agreed to further discuss this subject at the next session on the basis of a revised proposal by the authors, including a more detailed justification.

3. Transitional provision of paragraph 9.3.X.40.2

Document: ECE/TRANS/WP.15/AC.2/2023/7 (Recommended ADN Classification Societies)

31. The Safety Committee adopted the proposed amendments with an additional change (see annex I).

4. Proposal for a new entry in Table C for UN No. 1977, NITROGEN, REFRIGERATED, LIQUID

Document: ECE/TRANS/WP.15/AC.2/2023/8 (Belgium and the Netherlands)

32. The Safety Committee adopted the amendments proposed in document ECE/TRANS/WP.15/AC.2/2023/8 (see annex I). The informal working group was requested to investigate whether an entry in Table C for liquid nitrogen in membrane tanks could be suitable.

5. Alternative propulsion systems/fuels in inland navigation: identifying necessary adjustments in the ADN

Document: ECE/TRANS/WP.15/AC.2/2023/9 (EBU and ESO)

Informal document: INF.23 (EBU and ESO)

33. In relation with the workshop on sustainable development and climate change (see paragraphs 56-67 below), the Safety Committee welcomed the information in documents ECE/TRANS/WP.15/AC.2/2023/9 and informal document INF.23. Most delegations who spoke preferred option 2 while others preferred option 1 as they did not support to insert in ADN a reference to the European Standard laying down Technical Requirements for Inland Navigation vessels (ES-TRIN).

34. Following the discussion, it was recommended to avoid duplication of provisions on the installation on vessels of such alternative propulsion systems (inside or outside the engine room). It was agreed to set up a first list of potential systems (e.g., methanol, fuel cell) taking into account the work in European Committee for drawing up standards in the field of inland navigation (CESNI) on ES-TRIN. It was also suggested to develop in a further step an exhaustive set of criteria to evaluate such alternative energy systems in the context of the safety provisions of ADN. The representative of FuelsEurope announced their ongoing work on possible new entries in table C of ADN to cover such new alternate fuels.

35. The Safety Committee agreed to resume discussion on this subject at its next session on the basis of a new proposal by Germany and the Netherlands.

6. Definition of "inspection body"

Informal document: INF.5 (France, Germany and the Netherlands)

36. The Safety Committee agreed on the need to clarify in the English version of ADN the definition of "inspection body", but this would imply an amendment of the treaty. To avoid a call for a conference of parties and also a request to the RID/ADR/ADN Joint Meeting to adapt the RID/ADR, it was recommended to resolve the issue by using a slightly different term for the English version and/or a new footnote. The representatives of France, Germany and the Netherlands volunteered to come up with a new proposal at the next session of the Safety Committee.

7. Opening of openings

Informal document: INF.6 (Germany)

37. The Safety Committee welcomed the well-elaborated contributions in informal document INF.6 and noted general support on the best practice solutions. It noted some further questions not only on technical but also procedural solutions. Furthermore, it was noted by a delegation that the Regulations annexed to ADN should not regulate exceptional cases or situations but focus on regular operations. The Safety Committee agreed to resume consideration of this subject at the next session based on a new document by Germany.

8. Discussion on the impact of increased collision energies on the rules for construction of tank vessels

Informal document: INF.7 (Austria)

38. The Safety Committee endorsed the conclusions in informal document INF.7 and that the current provisions in ADN 9.3.1 to 9.3.3 for the construction of vessels with cargo tanks up to 380 m³ were sufficient. It was recalled that at its forthcoming session, the Safety Committee would receive an updated TNO report and data on vessels with cargo tanks of 380 m³ to 1000 m³ including a proposal of amendments to 9.3.4. It was agreed that the discussion should not go beyond vessels with cargo tanks more than 1000 m³.

9. In 1.2.1 "Definitions", correction of the footnote relative to the "IECEX-System"

Informal document: INF.9 (CCNR)

39. The Safety Committee adopted the proposed amendment to the footnotes in some of the definitions in ADR 1.2.1 (see annex I).

10. ADN Checklist

Informal document: INF.11 (Netherlands)

40. The Safety Committee welcomed the initiative by the Netherlands to update the ADN checklist. The Chair invited all delegations to send any comments related to the ADN checklist to the representative of the Netherlands, including different language versions and electronic format.

11. Discussion paper on the Regulation annexed to ADN

Informal document: INF.13 (Austria)

41. The Safety Committee adopted the proposed correction to ADN 9.3.x.0.3 (see annex II).

12. Correcting a non-existing reference in special provisions for wastes

Informal document: INF.14 (EBU and ESO)

42. On the amendments proposed in informal document INF.14, the Safety Committee preferred to further discuss them at the next session based on an official document.

13. Proposal regarding inconsistency in two comparable positions UN 3295

Informal document: INF.15 (EBU and ESO)

43. The Safety Committee adopted the proposed amendments to correct the inconsistency in Table C for UN 3295 (see annex I).

14. Miscellaneous amendments and corrections

Informal document: INF.16 (Secretariat)

44. The Safety Committee adopted the corrections and amendments proposed in informal document INF.16 (see annexes I, II and III).

15. Reclassification of UN 1918, ISOPROPYLBENZENE (cumene) and substances containing cumene at or above 0.1%

Informal document: INF.17 (FuelsEurope)

45. The Safety Committee welcomed the proposed amendments to Table C of ADN aiming to reclassify UN 1918 including consequential amendments to UN 1223 and UN 1307.

46. The Safety Committee invited the informal working group on substances to review the proposals and to also advice on the best way forward on the temporary solution until the entry into force of the new provisions in ADN 2025, and also on how to reflect entries in Table C (change to star positions or insert additional entries). It was agreed to resume discussion at the next session on the basis of a new proposal.

16. Gas return pipe – Exemption permissions

Informal document: INF.18 (EBU and ESO)

47. The authors of informal document INF.18 withdrew their proposal.

17. Maximum contents of cargo samples on board of supply vessels or "other vessels delivering products for the operation of vessels"

Informal document: INF.19 (EBU and ESO)

48. The Safety Committee noted some concerns on the proposed amendments. It was agreed to resume consideration of this subject at its next session based on an updated official document.

18. Not empty loading arms/hoses

Informal document: INF.20 (EBU and ESO)

49. Some delegations who took the floor underlined the importance of this subject and the need to resolve the issue. Others felt that it was out of the scope of ADN. The Safety Committee considered it premature to establish an informal working group. The representative of the Netherlands volunteered to consider this subject together with the further developments on the ADN checklist (see para. 40 above) and to come back at its next session with feasible solutions.

19. Transport of Carbon Dioxide (CO₂), refrigerated, liquid

Document: ECE/TRANS/WP.15/AC.2/2023/6 (EBU and ESO)

Informal document: INF.24 (EBU and ESO)

50. The Safety Committee agreed in principle on the amendments proposed in document ECE/TRANS/WP.15/AC.2/2023/6 as modified by informal document INF.24. It was recommended to have a final review of the proposed amendments in all languages during the next session on the basis of an official document.

VIII. Reports of informal groups (agenda item 6)

A. Minutes of the 24th meeting of the Group of Recommended ADN Classification Societies

Document: ECE/TRANS/WP.15/AC.2/2023/13 (Recommended ADN Classification Societies)

51. The Safety Committee welcomed the outcome of the twenty-fourth meeting of the group. The next meeting of the group is scheduled to be held on 22 March 2023.

52. It was noted that the general question on remark 44 (see para. 10 of document ECE/TRANS/WP.15/AC.2/2023/13) was very similar to the request to the informal working group on substances as mentioned in paragraph 46 above.

B. Correspondence group on fumigated cargo

Informal document: INF.10 (Germany)

53. The Safety Committee welcomed the outcome of discussion in the correspondence group on fumigated cargo. It endorsed the proposed steps forward, invited the Dutch delegation, together with the correspondence group to resume its work and to come back with a proposal of amendments at the next session of the Safety Committee.

IX. Programme of work and calendar of meetings (agenda item 7)

54. The twenty-ninth session of the ADN Administrative Committee will take place on 27 January 2023 starting at noon.

55. The Safety Committee noted that its next session would be held in Geneva from 21-25 August 2023 and that the thirtieth session of the ADN Administrative Committee was scheduled to take place in Geneva on 25 August 2023. The deadline for the submission of documents for these sessions is 26 May 2023. Updated information on the status of the forthcoming sessions will be published in due time on the UNECE website.

X. Any other business (agenda item 8)

Sustainable development and climate change from the perspective of the transport of dangerous goods on inland waterways

Informal document: INF.21 (secretariat)

56. A workshop on sustainable development and climate change from the perspective of the transport of dangerous goods on inland waterways was held during the forty-first session of the Safety Committee. The workshop was a follow-up of the round table discussions held during the November 2022 session of WP.15 in the context of the Inland Transport Committee strategy to 2030, for an annual report on the work of the subsidiary bodies also related to the circular economy and the Sustainable Development Goals.

57. The programme (informal document INF.21) and all the presentations made during the workshop would be made available on the web page of the forty-first session of the Safety Committee (<https://unece.org/info/Transport/Dangerous-Goods/events/370093>).

58. The workshop began with welcome addresses from the Director of the Sustainable Transport Division and with background information by the secretariat. The Director highlighted the importance of circular economy and sustainable use of natural resources in achieving the Sustainable Development Goals (SDGs) of Agenda 2030 and recalled, in

particular, that the Economic and Social Council had recently approved the revised terms of reference of the Inland Transport Committee which became the UN center for inland transport. The new terms of reference enables the Inland Transport Committee to take more regional and global specialized role in the inland transport sector including possible global exchange in the field of transport of dangerous goods on inland waterways. The Director also informed the workshop of the latest ITC's actions against climate change and potential future contributions from the ADN Safety Committee. The secretariat recalled the decisions taken by the Joint Meeting to add to its programme of work a specific item on the circular economy and the SDGs and to insert in the justification part of future working documents the interlinkage to the SDGs, if applicable.

59. The representative of CCNR presented their roadmap and two transition pathways for greening the inland waterway transport until 2035 and 2050 in accordance with their timeline of the regulatory work on ES-TRIN.

60. The representative of EBU and ESO informed the audience about the ongoing work in CESNI on the initiatives to move in a gradual shift the transport by inland waterways towards a zero emission inland vessels scenario.

61. The representative of the Recommended ADN Classification Societies reported on current projects for use of alternative fuels for the propulsion of inland waterway vessels, their optimization with respect to fuel consumption and the potential of autonomous sailing.

62. The secretariat reported on the ongoing activities of the Working Party on Inland Water Transport (SC.3) related to climate change, circular economy and greening of the inland fleet towards a modern, sustainable and resilient waterway network.

63. The Chair of the Safety Committee highlighted the challenges posed by the complexities of sustainable transport in a healthy and safe society resulting in the need to seek, in some cases, a sound balance of measures satisfying the constraints set by circular economy, sustainable use of natural resources including the reduction of transport related emissions of greenhouse gases. Considering avoidance of transport would also be an option (e.g., pipelines).

64. The Safety Committee expressed its appreciation of the workshop discussions. It noted a need for policies and clear guidance to foster sound investments by vessel owners and industry in their greening efforts of the inland water transport fleet, and to so avoid the uncertainty of regrettable investments. It also noted that a call for flexibility is needed when referring to sustainable inland waterway transport and that vessels should have long lifetime while their propulsion systems should allow for an easy refitting, if necessary. It was agreed that the inland waterway infrastructure also needed improvements to ensure a safe and regionally sound ways of supplying vessels with such alternative fuels.

65. Further to its decision to develop a list of potential innovative propulsion systems and a list of evaluation criteria (see para. 34 above), the Safety Committee decided to dedicate a new agenda item to "2030 Agenda for Sustainable Development" to allow for regular discussion on possible follow-up actions and reporting on SDGs, including climate change adaptation and mitigation. It invited delegations, when submitting proposals, to insert in the justification part of their document any interlinkage of their proposal to SDGs, when applicable.

66. The panellists and the participants recognized the important work of United Nations bodies in the area of transport of dangerous goods which already resulted in recent years in contributions, direct or indirect, to the SDGs including the global fight against climate change. The secretariat was invited to consider a possible new entry on Goal 17 as a result of the close cooperation and collaboration with other UN agencies and intergovernmental organization on activities related to dangerous goods.

67. Finally, the secretariat was also invited to report to the forthcoming session of the RID/ADR/ADN Joint Meeting on the positive outcome of the workshop.

XI. Adoption of the report (agenda item 9)

68. The Safety Committee adopted the report on its forty-first session on the basis of a draft prepared by the secretariat.

Annex I

[Original: English and French]

Proposed amendments to the Regulations annexed to ADN for entry into force on 1 January 2025

Chapter 1.2

1.2.1 In the definitions for "Device for the safe depressurization of cargo tanks", "Equipment intended for use in explosion hazardous areas", "Flame arrester", "Gas detection system", "Gas detector", "High-velocity vent valve", "Oxygen measuring system", "Oxygen meter", "Sampling opening", "Toximeter" and "Vacuum valve", in the footnote relative to the IECEx-System, replace "http://iecex.com/rules" by "https://www.iecex.com/publications/iecex-rules/".

(Reference document: informal document INF.9)

Chapter 1.6

1.6.7.2.2.2, Table of general transitional provisions: Tank vessels Amend transitional provision for 9.3.x.40.2 to read as follows:

Paragraphs	Subject	Time limit and comments
9.3.1.40.2 9.3.2.40.2 9.3.3.40.2	Fixed fire extinguishing system in engine room, cargo pump-rooms and all spaces containing essential equipment for the refrigerant equipment	N.R.M. Renewal of the certificate of approval after 31 December 2034

(Reference document: ECE/TRANS/WP.15/AC.2/2023/7 as amended)

Chapter 3.2, Table A

For Un Nos. 1057, 3150, 3358, 3478, 3479 and 3537, in column (12), replace "1" by "0".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN Nos. 1700, 2016 and 2017, in column (12), replace "2" by "0".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 1977, in column (8) insert "T".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/8)

For UN Nos. 3359, 3363 and 3473, in column (12), insert "0".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 3539 "ARTICLES CONTAINING TOXIC GAS, N.O.S.", in column (12), replace "2" by "0".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 3540 "ARTICLES CONTAINING FLAMMABLE LIQUID, N.O.S.", in column (12), replace "1" by "0".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

Chapter 3.2

3.2.3.1, Explanations concerning Table C, Column (20) Amend remark 39 as follows:

In subparagraph (a), replace "carbon dioxide" by "refrigerated liquefied gases".

In subparagraph (d), delete at the end "or when the CO₂ level is too high".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/8)

3.2.3.1, Explanations concerning Table C, Column (20) Add the following new remarks:

"46. Materials of construction and ancillary equipment such as insulation shall be resistant to the effects of high oxygen concentrations caused by condensation and enrichment at the low temperatures attained in parts of the cargo system. Due consideration shall be given to ventilation in areas where condensation might occur, to avoid the stratification of oxygen-enriched atmosphere."

"47 The flash-point of the substances carried may vary between 60 °C and 100 °C. This information shall be mentioned in the transport document."

(Reference documents: ECE/TRANS/WP.15/AC.2/2023/1 and ECE/TRANS/WP.15/AC.2/2023/8 as amended)

Chapter 3.2, Table C

For UN Nos. 1108, 1157, 2323, 2370 and 3079, replace "II B⁴⁾" by "II A⁹⁾" in column (16).

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

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).

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 2527 "ISOBUTYL ACRYLATE, STABILIZED", in column (16), replace "II B⁹⁾" by "II B3¹⁴⁾".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 2924 "FLAMMABLE LIQUID, CORROSIVE, N.O.S.", first entry of packing group III (without "II B3"), delete "; 34" in column (20).

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 2924 "FLAMMABLE LIQUID, CORROSIVE, N.O.S.", second entry of packing group III (with "II B3"), replace "; 34" by "; 44" in column (20).

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

For UN No. 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE; LIQUID, N.O.S. (HEAVY HEATING OIL), in column (20) add "47".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1 as amended)

For UN No. 3295, HYDROCARBONS, LIQUID, N.O.S. CONTAINING ISOPRENE AND PENTADIENE, STABILIZED, second entry, amend column (18) to read: "PP, EP, EX, TOX, A".

(Reference document: informal document INF.15)

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", in column (5) delete danger "N1".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

Add the following new entry:

(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
1977	NITROGEN, REFRIGERATED, LIQUID	2	3A		2.2	G	1	1	1		95		1	No			No	PP	0	31, 39, 42, 46

(Reference document: ECE/TRANS/WP.15/AC.2/2023/8)

Chapter 3.2

3.2.3.3, Flowchart for classification of liquids of Classes 3, 6.1, 8 and 9 for carriage in tanks in inland navigation In the first box, after the second bullet point, insert the following bullet point:

- "● Auto-ignition temperature ≤ 200 °C,".

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

3.2.3.3 and 3.2.4.3, Column (20) Amend remark 39 to read as follows:

"Remark 39: Reference shall be made in column (20) to remark 39 for the carriage of UN No. 1977 NITROGEN, REFRIGERATED, LIQUID and UN No. 2187 CARBON DIOXIDE, REFRIGERATED LIQUID of Class 2."

(Reference document: ECE/TRANS/WP.15/AC.2/2023/8)

3.2.3.3 and 3.2.4.3, Column (20) Remark 42, amend to read as follows:

"Remark 42: Reference shall be made in column (20) to remark 42 for UN No. 1038 ETHYLENE, REFRIGERATED LIQUID, for UN No. 1972 METHANE REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID, with high methane content and for UN No. 1977 NITROGEN, REFRIGERATED, LIQUID."

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1 as amended)

3.2.3.3 and 3.2.4.3 Add the following new remarks for column (20):

"Remark 44: *Reserved*".

"Remark 45: *Reserved*".

"Remark 46: Reference shall be made in column (20) to remark 46 for the carriage of UN No. 1977 NITROGEN, REFRIGERATED, LIQUID of Class 2."

"Remark 47: Reference shall be made in column (20) to remark 47 for UN No. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE; LIQUID, N.O.S. (HEAVY HEATING OIL)."

(Reference documents: ECE/TRANS/WP.15/AC.2/2023/8 and ECE/TRANS/WP.15/AC.2/2023/1 as amended)

Part 6, Chapter 6.1

Chapter 6.3 At the end add: "(UN Nos. 2814 and 2900)".

Chapter 6.4 Replace "and material of Class 7" by "for radioactive material and for the approval of such material".

Chapter 6.9 Amend to read as follows:

"Chapter 6.9 Requirements for the design, construction, inspection and testing of portable tanks with shells made of fibre-reinforced plastics (FRP) materials;"

Add a new Chapter 6.13 to read as follows:

"Chapter 6.13 Requirements for the design, construction, equipment, type approval, testing and marking of fibre-reinforced plastics (FRP) fixed tanks (tank-vehicles) and demountable tanks;"

(Reference document: informal document INF.16)

Annex II

[Original: English and French]

Proposed corrections to the Regulations annexed to ADN (Corrections requiring acceptance by Contracting Parties)

1. Chapter 1.1, 1.1.4.7.1

Does not apply to the English version

(Reference document: informal document INF.16)

2. Chapter 9.3, 9.3.1.0.3

For 9.3.1.0.3 read 9.3.1.0.4

(Reference document: informal document INF.13)

3. Chapter 9.3, 9.3.2.0.3

For 9.3.2.0.3 read 9.3.2.0.4

(Reference document: informal document INF.13)

4. Chapter 9.3, 9.3.3.0.3

For 9.3.3.0.3 read 9.3.3.0.4

(Reference document: informal document INF.13)

Annex III

[Original: English and French]

Corrections to ECE/TRANS/325 (ADN 2023 publication) (Corrections not requiring acceptance by Contracting Parties)

1. Table of contents

For Chapter 1.2 Definitions and units of measurement read Chapter 1.2 Definitions, Units of Measurement and Abbreviations

(Reference document: informal document INF.16)

2. Chapter 1.1, 1.1.4.7.1

Does not apply to the English version

(Reference document: informal document INF.16)

3. Chapter 1.6, 1.6.7.2.2.2

Does not apply to the English version

(Reference document: informal document INF.16)

4. Chapter 3.2, Table C, UN No. 1972, second entry, in column (2)

For existing text read METHANE, REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID with high methane content

(Reference document: ECE/TRANS/WP.15/AC.2/2023/1)

5. Chapter 9.3, 9.3.2

For 9.3.1.10.5 read 9.3.2.10.5

(Reference document: informal document INF.16)
