Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Work of the RID/ADR/ADN Joint Meeting

Draft amendments adopted by the Joint Meeting at its Autumn 2020 session (10-18 September 2020)

Note by the secretariat

Draft amendments to ADR for entry into force on 1 January 2023

Reference: ECE/TRANS/WP.15/AC.1/158, Annex II

Chapter 1.1

1.1.3.6.3 In the table, for Transport category 2, in the second column, for Class 9, replace "and 3481" with ", 3481 and 3536".

(Reference document: ECE/TRANS/WP.15/AC.1/2020/66, proposal 2)

Chapter 1.2

[1.2 Amend the title to read:

"DEFINITIONS, UNITS OF MEASUREMENT AND ABBREVIATIONS".]

(Reference document: ECE/TRANS/WP.15/AC.1/2020/13)

[1.2.1 Delete the following definitions:

"ADN", "ASTM", "CGA", "CIM", "CMR", "CNG", "CSC", "CTU", "EN", "GHS", "IAEA", "IBC", "ICAO", "IMDG", "IMO", "ISO", "LNG", "LPG", "MEGC", "MEMU", "OTIF", "RID", "SADT", "SAPT", "UIC", "UNECE".]

(Reference document: ECE/TRANS/WP.15/AC.1/2020/13)

[Add a new section 1.2.3 to read as follows:

"**1.2.3 List of abbreviations**

In ADR, abbreviations, acronyms and abbreviated designations of regulatory texts are used, with the following meaning:

A

"ADN" means the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

"ASTM" means the American Society for Testing and Materials (ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA, 19428-2959, United States of America), www.astm.org;

C

"CGA" means the Compressed Gas Association (CGA, 14501 George Carter Way, Suite 103, Chantilly, VA 20151, United States of America), www.cganet.com;

"CIM" means the Uniform Rules Concerning the Contract of International Carriage of Goods by Rail (Appendix B to the Convention concerning International Carriage by Rail (COTIF)), as amended;

"CMR" means the Convention on the Contract for the International Carriage of Goods by Road (Geneva, 19 May 1956), as amended;

"CNG", see "Compressed Natural Gas" in 1.2.1;

"CSC" means the International Convention for Safe Containers (Geneva, 1972) as amended and published by the International Maritime Organization (IMO), London;

"CSI", see "Criticality safety index" in 1.2.1;

"CTU", see "Cargo Transport Unit" in 1.2.1;

E

"EN" (standard) means a European standard published by the European Committee for Standardization (CEN) (CEN, Avenue Marnix 17, B-1000 Brussels, Belgium), www.cen.eu;

G

"GHS" means the eighth revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals, published by the United Nations as document ST/SG/AC.10/30/Rev.8;

I

"IAEA" means the International Atomic Energy Agency (IAEA, P.O. Box 100, A-1400 Vienna, Austria), www.iaea.org;

"IBC", see "Intermediate bulk container" in 1.2.1;

"ICAO" means the International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada), www.icao.org;

"IMDG", see "IMDG Code" in 1.2.1;

"IMO" means the International Maritime Organization (IMO, 4 Albert Embankment, London SE1 7SR, United Kingdom), www.imo.org;

"ISO" (standard) means an international standard published by the International Organization for Standardization (ISO - 1, rue de Varembé. CH-1204 Geneva 20, Switzerland), www.iso.org;

L

"LNG", see "Liquefied Natural Gas" in 1.2.1;

"LPG", see "Liquefied Petroleum Gas" in 1.2.1;

M

"MEGC", see "Multiple-element gas container" in 1.2.1;

(ADR:)

"MEMU", see "Mobile explosives manufacturing unit" in 1.2.1;

N

"N.O.S.", see "N.O.S. entry (not otherwise specified entry)" in 1.2.1;

O

"OTIF" means the Intergovernmental Organisation for International Carriage by Rail (OTIF, Gryphenhübeliweg 30, CH–3006 Bern, Switzerland), www.otif.org;

R

(ADR:)

"RID" means Regulations concerning the International Carriage of Dangerous Goods by Rail (Appendix C of COTIF (Convention concerning international carriage by rail));

S

"SADT", see "Self-accelerating decomposition temperature" in 1.2.1;

"SAPT", see "Self-accelerating polymerization temperature" in 1.2.1;

(RID:)

"SMGS" means the Agreement concerning International Goods Transport by Rail of the the Organisation for Cooperation between Railways (OSJD) (OSJD, ul. Hoza, 63/67 PL-00-681 Warsaw, Poland), www.en.osjd.org;

(RID:)

"SMGS Annex 2" means provisions for the carriage of dangerous goods as Annex 2 to SMGS;

U

"UIC" means the International Union of Railways (UIC, 16 rue Jean Rey, F-75015 Paris, France), www.uic.org;

"UNECE" means the United Nations Economic Commission for Europe (UNECE, Palais des Nations, 8-14 avenue de la Paix, CH-1211 Geneva 10, Switzerland), www.unece.org."]

(Reference document: ECE/TRANS/WP.15/AC.1/2020/13)

Chapter 1.6

1.6.4.55 Add the following new paragraph:

"1.6.4.55 Tank-containers which do not comply with the requirements of 6.8.3.4.6 applicable from 1 January 2023, may continue to be used if an intermediate inspection takes place at least 6 years after each periodic inspection performed after 1 July 2023."

(Reference documents: informal document INF.64, ECE/TRANS/WP.15/AC.1/2020/1 and ECE/TRANS/WP.15/AC.1/2020/7)

Chapter 1.9

1.9.4 After the reference to footnote 1, add a reference to a new footnote 2 to read as follows:

"[2] Multimodal guidelines (*Inland TDG Risk Management Framework*) may be consulted on the website of the Directorate General for Mobility and Transport of the European Commission (https://ec.europa.eu/transport/themes/dangerous_good/risk_management_framework_en)."

(Reference document: informal document INF.62, as amended)

Chapter 2.2

2.2.2.2.2 Amend the fifth indent to read:

"– Dissolved gases which cannot be classified under UN Nos. 1001, 1043, 2073 or 3318. For UN No. 1043, see special provision 642;".

(Reference document: ECE/TRANS/WP.15/AC.1/2020/36)

Chapter 3.2, Table A

UN 1345 In column (2), add ", not exceeding 840 microns and rubber content exceeding 45%".

(Reference document: ECE/TRANS/WP.15/AC.1/2020/37, proposal 1)

UN 1872 In column (3b), amend "OT2" to read "O2". In column (5), delete "+ 6.1".

In column (12), amend “SGAN” to read “SGAV”. In column (17), insert: “VC1 VC2 AP6 AP7”. In column (18), delete “CV28”. In column (20), amend “56” to read “50”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/53)

UN 2015 For the first entry, in column (2), before the existing text, insert “HYDROGEN PEROXIDE, STABILIZED or”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/39)

[UN 3509 In column (17), insert “VC1”.]

(Reference document: ECE/TRANS/WP.15/AC.1/2020/62)

UN 3536 In column (15), at the top of the cell, replace “-” by “2”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/66, proposal 2)

Chapter 3.2, Table B

For the entry “RUBBER SCRAP, powdered or granulated”, add in column (1):

“, not exceeding 840 microns and rubber content exceeding 45%”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/37, proposal 1)

For the entry “RUBBER SHODDY, powdered or granulated”, add in column (1):

“, not exceeding 840 microns and rubber content exceeding 45%”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/37, proposal 1)

In alphabetical order, insert the following new entry:

“

Name and description	UN No.	Class	Remarks
HYDROGEN PEROXIDE, STABILIZED	2015	5.1	

”

(Reference document: ECE/TRANS/WP.15/AC.1/2020/39)

Chapter 3.3

SP 389 At the beginning of the last sentence, insert “Except as provided in 1.1.3.6”.

(Reference document: ECE/TRANS/WP.15/AC.1/2020/66, proposal 3)

SP 591 After “the requirements”, insert “of Class 8”.

(Reference document: ECE/RANS/WP.15/AC.1/2020/5)

SP 642 At the end, add the following sentence:

“Otherwise, for carriage of ammonia solution, see UN Nos. 2073, 2672 and 3318.”

(Reference document: ECE/TRANS/WP.15/AC.1/2020/36)

SP 663 Amend the first paragraph under “**General provisions:**” to read as follows:

“Packagings, discarded, empty, uncleaned with residues presenting a primary or subsidiary hazard of Class 5.1 shall not be loaded in bulk together with packagings, discarded, empty, uncleaned with residues presenting a hazard of other classes. Packagings, discarded, empty, uncleaned with residues presenting a primary or subsidiary hazard of Class 5.1 shall not be packed with other packagings, discarded, empty, uncleaned with residues presenting hazards of other classes in the same outer packaging.”

(Reference document: document ECE/TRANS/WP.15/AC.1/2020/60, as amended)

Chapter 4.1

4.1.4.1, P200 (13) In 2.4, replace “EN ISO 11114-1:2012” by “EN ISO 11114-1:2020”.

(Reference document: informal document INF.53/Rev.2, consequential amendment)

4.1.6.15 Amend to read as follows:

“4.1.6.15 For UN pressure receptacles, the ISO standards and EN ISO standards listed in Table 1, except EN ISO 14245 and EN ISO 15995, shall be applied. For information on which standard shall be used at the time of manufacturing the equipment, see 6.2.2.3.

For other pressure receptacles, the requirements of section 4.1.6 are considered to have been complied with if the standards in Table 1, as relevant, are applied. For information on which standards shall be used for the manufacture of valves with inherent protection, see 6.2.4.1. For information on the applicability of standards for manufacturing valve protection caps and valve guards, see Table 2:

Table 1: Standards for UN and non-UN pressure receptacles

Applicable paragraphs	**Reference**	**Title of document**
4.1.6.2	EN ISO 11114-1:2020	Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 1: Metallic Materials
	EN ISO 11114-2:2013	Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 2: Non-metallic Materials
4.1.6.4	ISO 11621:1997 or EN ISO 11621:2005	Gas cylinders – Procedures for change of gas service
4.1.6.8 Valves with inherent protection	Clause 4.6.2 of EN ISO 10297:2006 or clause 5.5.2 of EN ISO10297:2014 or clause 5.5.2 of EN ISO 10297:2014 + A1:2017	Gas cylinders – Cylinder valves – Specification and type testing
	Clause 5.3.8 of EN 13152:2001 + A1:2003	Testing and specifications of LPG cylinder valves – Self-closing
	Clause 5.3.7 of EN 13153:2001 + A1:2003	Specifications and testing of LPG cylinder valves – Manually operated
	Clause 5.9 of EN ISO 14245:2010 or clause 5 9 of EN ISO 14245:2019	Gas cylinders – Specifications and testing of LPG cylinder valves – Self-closing
	Clause 5.10 of EN ISO 15995:2010 or clause 5.10 of EN ISO 15995:2019	Gas cylinders – Specifications and testing of LPG cylinder valves – Manually operated
	Clause 5.4.2 of EN ISO 17879:2017	Gas cylinders – Self-closing cylinder valves - Specification and type testing
4.1.6.8 (b) and (c)	ISO 11117:1998 or EN ISO 11117:2008 + Cor 1:2009 or EN ISO 11117:2019	Gas cylinders – Valve protection caps and guards – Design construction and tests
	EN 962:1996 +A2:2000	Transportable gas cylinders – Valve protection caps and valve guards for industrial and medical gas cylinders – Design, construction and tests
	ISO 16111:2008	Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride

Table 2: Manufacturing dates applicable to valve protection caps and guards fitted to non-UN pressure receptacles

Reference	**Title of document**	**Applicable for manufacture**

ISO 11117:1998	Gas cylinders – Valve protection caps and valve guards for industrial and medical gas cylinders – Design construction and tests	Until 31 December 2014
EN ISO 11117: 2008 + Cor 1:2009	Gas cylinders – Valve protection caps and valve guards – Design, construction and tests	Until 31 December 2024
EN ISO 11117:2019	Gas cylinders – Valve protection caps and guards – Design, construction and tests	Until further notice
EN 962:1996 +A2:2000	Transportable gas cylinders – Valve protection caps and valve guards for industrial and medical gas cylinders – Design, construction and tests	Until 31 December 2014

(Reference document: ECE/TRANS/WP.15/AC.1/2020/46 as amended and informal document INF.53/Rev.2)

Chapter 4.3

4.3.3.3.2 Delete and add "4.3.3.3.2 *(Deleted)"*.

(Reference documents: informal document INF.64 and ECE/TRANS/WP.15/AC.1/2020/26)

Chapter 5.3

5.3.2.1.5 Amend the note to read as follows:

*"**NOTE:** This paragraph need not be applied to vehicles carrying bulk containers, tanks and MEGCs with a maximum capacity of 3 000 litres."*

(Reference document: informal document INF.61, as amended)

Chapter 6.2

6.2.3.5.1 In note 2, replace "EN ISO 16148:2016" by "EN ISO 16148:2016 + A1:2020".

(Reference document: informal document INF.53/Rev.2)

6.2.4.1 In the table, under "for design and construction", add the following new row:

EN 17339:2020	Transportable gas cylinders – Fully wrapped carbon composite cylinders and tubes for hydrogen	6.2.3.1 and 6.2.3.4	Until further notice	

In the table, under "for closures":

- For "EN 13175:2019 (except clause 6.1.6)", in column (4), replace "Until further notice" by "Between 1 January 2021 and 31 December 2024". After the row for "EN 13175:2019 (except clause 6.1.6)", insert the following row:

EN 13175:2019 + A1:2020	LPG Equipment and accessories – Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	6.2.3.1 and 6.2.3.3	Until further notice	

- For "EN 13953:2015", in column (4), replace "Until further notice" by "Between 1 January 2017 and 31 December 2024". After the row for "EN 13953:2015", insert the following row:

EN 13953:2020	LPG Equipment and accessories – Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG)	6.2.3.1, 6.2.3.3 and 6.2.3.4	Until further notice	

(Reference document: informal document INF.53/Rev.2)

6.2.5.4.2 Replace "EN 1975:1999 + A1:2003" by "EN ISO 7866:2012 + AC:2014".

(Reference document: informal document INF.53/Rev.2)

Chapter 6.8

6.8.2.2.1 After the first sentence, add the following new sentence:

"Welded elements shall be attached to the shell in such a way that tearing of the shell is prevented."

(Reference documents: informal document INF.64, ECE/TRANS/WP.15/AC.1/2020/6)

6.8.2.6.1 In the table, under "for equipment":

- For "EN 13175:2019 (except clause 6.1.6)", in column (4), replace "Until further notice" by "Between 1 January 2021 and 31 December 2024". After the row for "EN 13175:2019 (except clause 6.1.6)", insert the following row:

EN 13175:2019 + A1:2020	LPG Equipment and accessories – Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	6.8.2.1.1, 6.8.2.2, 6.8.2.4.1 and 6.8.3.2.3	Until further notice	

(Reference document: informal document INF.53/Rev.2)

6.8.3.4.6 Amend to read as follows:

"6.8.3.4.6 For tanks intended for the carriage of refrigerated liquefied gases:

(a) By derogation from the requirements of 6.8.2.4.2, the periodic inspections shall take place

at least after six years | at least after eight years

of service and thereafter at least every 12 years.

(b) By derogation from the requirements of 6.8.2.4.3, the intermediate inspections shall take place at least six years after each periodic inspection."

(Reference documents: informal document INF.64, ECE/TRANS/WP.15/AC.1/2020/1 and ECE/TRANS/WP.15/AC.1/2020/7)

6.8.4 (a), TC6 Amend to read as follows:

"The wall thickness of tanks made of aluminium not less than 99% pure or aluminium alloy need not exceed 15 mm even where calculation in accordance with 6.8.2.1.17 gives a higher value."

(Reference documents: informal document INF.64 and ECE/TRANS/WP.15/AC.1/2020/34)

6.8.4 (b), TE14 Amend the second sentence to read as follows:

"The thermal insulation directly in contact with the shell and/or components of the heating system shall have an ignition temperature at least 50 °C higher than the maximum temperature for which the tank was designed."

(Reference documents: informal document INF.64 and ECE/TRANS/WP.15/AC.1/2020/31)