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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 (a) of the provisional agenda

Proposals for amendments to the Regulations annexed to ADN: work of the RID/ADR/ADN Joint Meeting

Consolidated list of amendments relevant for ADN adopted by the RID/ADR/ADN Joint Meeting and by the Working Party on the Transport of Dangerous Goods (WP.15) for entry into force on 1 January 2025

Note by the secretariat^{*,**}

1. The secretariat reproduces hereafter the draft amendments relevant to ADN adopted by the RID/ADR/ADN Joint Meeting at its Spring and Autumn 2022 sessions and Spring and Autumn 2023 sessions and the amendments relevant to ADN adopted by the Working Party on the Transport of Dangerous Goods (WP.15) during the biennium.
2. The amendments adopted by the Joint Meeting at its Spring and Autumn 2022 sessions and Spring and Autumn 2023 sessions can be found in documents ECE/TRANS/WP.15/AC.1/164, annex I, B., ECE/TRANS/WP.15/AC.1/166, annex, ECE/TRANS/WP.15/AC.1/168, annex II, ECE/TRANS/WP.15/AC.1/170, annex II and ECE/TRANS/WP.15/AC.1/2023/23/Add.1.
3. Text in black corresponds to draft amendments relevant for ADN adopted by the Working Party on the Transport of Dangerous Goods (WP.15) and the Joint RID/ADR/ADN meeting in 2022 and 2023 for entry into force on 1 January 2025.

* Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR-ZKR/ADN/WP.15/AC.2/2024/30

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



4. Text in blue corresponds to draft amendments to ADN proposed by the Ad Hoc Working Group on the Harmonization of RID/ADR/ADN with the United Nations Recommendations on the Transport of Dangerous Goods and modified by the Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods.

Chapter 1.1

1.1.3.1 Rename current paragraph (a) as paragraph (a) (i).

After paragraph (a) (i), add the following new paragraph (ii):

“(ii) The carriage of dangerous goods by private individuals in the limits defined in paragraph (a) (i) intended initially for their personal or domestic use or for their leisure or sporting activities and which are carried as waste, including the cases when these dangerous goods are no longer packaged in the original package for retail sale, provided that measures have been taken to prevent any leakage under normal carriage conditions;”.

(Reference document: ECE/TRANS/WP.15/262, annex)

Chapter 1.2

1.2.1 Amend the definition of “*Recycled plastics material*” to read as follows:

“*Recycled plastics material* means material recovered from used industrial packagings or from other plastics material that has been pre-sorted and prepared for processing into new packagings, including IBCs. The specific properties of the recycled material used for production of new packagings, including IBCs, shall be assured and documented regularly as part of a quality assurance programme recognized by the competent authority. The quality assurance programme shall include a record of proper pre-sorting and verification that each batch of recycled plastics material, which is of homogeneous composition, is consistent with the material specifications (melt flow rate, density, and tensile properties) of the design type manufactured from such recycled material. This necessarily includes knowledge about the plastics material from which the recycled plastics have been derived, as well as awareness of the prior use, including prior contents, of the plastics material if that prior use might reduce the capability of new packagings, including IBCs, produced using that material. In addition, the packaging or IBC manufacturer's quality assurance programme under 6.1.1.4 or 6.5.4.1 of ADR shall include performance of the appropriate mechanical design type tests in 6.1.5 or 6.5.6 of ADR on packagings or IBCs, manufactured from each batch of recycled plastics material. In this testing, stacking performance may be verified by appropriate dynamic compression testing rather than static load testing;”

In the note under the definition, in the first sentence, replace “to be followed” by “which may be followed”.

In the definition of “*Globally Harmonized System of Classification and Labelling of Chemicals*”, replace “ninth” by “tenth” and replace “(ST/SG/AC.10/30/Rev.9)” by “(ST/SG/AC.10/30/Rev.10)”.

In the definition of “*Manual of Tests and Criteria*”, replace “seventh” by “eighth” and “(ST/SG/AC.10/11/Rev.7 and Amend.1)” by “(ST/SG/AC.10/11/Rev.8)”.

In the definition of “*UN Model Regulations*”, replace “twenty-second” by “twenty-third” and replace “(ST/SG/AC.10/1/Rev.22)” by “(ST/SG/AC.10/1/Rev.23)”.

In the definition of “*Filling ratio*”, replace “a pressure receptacle” by “the means of containment”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

1.2.1 Add a new definition in proper alphabetical order to read as follows:

“Degree of filling means the ratio, expressed in %, of the volume of liquid or solid introduced at 15 °C into the means of containment and the volume of the means of containment ready for use;”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

1.2.2.1 In the table, in the entry for “Electrical resistance”, in the last column, replace “ $1 \text{ kg} \cdot \text{m}^2 / \text{s}^3 / \text{A}^2$ ” by “ $1 \text{ kg} \cdot \text{m}^2 \cdot \text{s}^{-3} \cdot \text{A}^{-2}$ ”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 1.4

1.4.2.1.1 In (e), replace “bulk containers” by “containers for carriage in bulk”.

(Reference document: ECE/TRANS/WP.15/262, annex)

1.4.3.3 In sub-paragraph (e), replace “permissible degree of filling or the permissible mass of contents per litre of capacity” by “permissible degree of filling, permissible filling ratio or permissible mass of contents per litre of capacity, as appropriate,”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 1.6

1.6.1.1 Replace “2023” by “2025” and “2022” by “2024”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

1.6.1.8 After “may continue to be used”, add “until 31 December 2026”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

1.6.1.38 Delete and replace “1.6.1.39 to 1.6.1.42 (*Deleted*)” by “1.6.1.38 to 1.6.1.42 (*Deleted*)”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

1.6.1.43 Replace “2.2.9.1.7” by “2.2.9.1.7.1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

1.6.1 Add the following transitional measures:

“1.6.1.54 Vats for the carriage of molten aluminium of UN No. 3257 which have been constructed and approved before 1 July 2025 in accordance with the provisions of national law but which do not, however, conform to the construction and approval requirements of AP11 in 7.3.3.2.7 of ADR applicable as from 1 January 2025 may continue to be used with the approval of the competent authorities in the countries of use.”

(Reference document: ECE/TRANS/WP.15/262, annex)

[1.6.1.54 (*Reserved*)

(Reference document: ECE/TRANS/WP.15/262, annex)]

Note by the secretariat: The Safety Committee should decide if 1.6.1.54 is relevant for ADN.

“1.6.1.55 Substances assigned to UN No. 1835 or 3560, may be carried until 31 December 2026 in accordance with the classification provisions and transport conditions of ADN applicable to UN No. 1835 TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION up to 31 December 2024.”

“1.6.1.56 Substances assigned to UN No. 3423, may be carried until 31 December 2026 in accordance with the classification provisions and transport conditions of ADN applicable up to 31 December 2024.”

“1.6.1.57 Packagings manufactured before 1 January 2027 and which do not conform to the requirements of 6.1.3.1 of ADR regarding the affixing of marks on non-removable components applicable as from 1 January 2025 may continue to be used.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 1.8

1.8.3.2 Renumber (a) and (b) as (b) and (c). In the renumbered (c), before “carriage”, insert “consignment,” (twice).

Add a new (a) to read as follows:

“(a) (Reserved);”

(Reference document: ECE/TRANS/WP.15/260, annex)

1.8.3.11 In (b), fifth indent, replace “carriage in fixed or demountable tanks” by “carriage in tanks”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

1.8.3.11 In sub-paragraph (b), tenth indent, amend the text in parentheses to read “(packing, filling – degree of filling or filling ratio, as appropriate -, loading and unloading, stowage and segregation)”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (to be grouped with above amendment)

Chapter 2.1

2.1.5.2 Amend to read as follows:

“2.1.5.2 Such articles may in addition contain cells or batteries. Lithium cells and batteries that are integral to the article shall be of a type proven to meet the testing requirements of the Manual of Tests and Criteria, part III, sub-section 38.3. For articles containing pre-production prototype lithium cells or batteries carried for testing, or for articles containing lithium cells or batteries manufactured in production runs of not more than 100 cells or batteries, the requirements of special provision 310 of Chapter 3.3 shall apply.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

Chapter 2.2

2.2.1.1.1 In (a), for “Pyrotechnic substances”, replace “substances or mixtures of substances” by “explosive substances”.

At the end, before the definition of “*Phlegmatized*”, replace “definition applies” by “definitions apply”. At the end of the last paragraph, replace the full stop by a semicolon and add a new paragraph to read as follows:

“*Explosive or pyrotechnic effect* means, in the context of (c), an effect produced by self-sustaining exothermic chemical reactions including shock, blast, fragmentation, projection, heat, light, sound, gas and smoke.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.1.4 Add the following new entry:

“FIRE SUPPRESSANT DISPERSING DEVICES

Articles which contain a pyrotechnic substance, which are intended to disperse a fire extinguishing agent (or aerosol) when activated, and which do not contain any other dangerous goods.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.2.3 Under classification code 2F, for UN No. 1010, replace “40 %” by “20 %”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.3.1.1 At the end of the third paragraph, replace “3357 and 3379” by “3357, 3379 and 3555”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.3.3 For “F3”, delete the entry for “3269 POLYESTER RESIN KIT, liquid base material”. For “F1”, before “3065 ALCOHOLIC BEVERAGES”, add an entry for “3269 POLYESTER RESIN KIT, liquid base material”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.1.2 Amend the name of subdivision “F” to read “Flammable solids, without subsidiary hazard, and articles containing such substances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.1.3 Add a new paragraph at the end to read as follows:

“Metal powders are powders of metals or metal alloys.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.1.5 (a) Replace “metals powders or powders of metal-alloys” by “metal powders”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.1.5 (b) Replace “Metals powders or powders of metal-alloys” by “Metal powders”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.1.8 (b) Replace “Metals powders or powders of metal-alloys” by “Metal powders”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.41.3 For “F4”, delete the entry for “3527 POLYESTER RESIN KIT, solid base material”. For “F1”, before the first entry, add an entry for “3527 POLYESTER RESIN KIT, solid base material”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.42.1.2 Amend the name of subdivision “S” to read “Substances liable to spontaneous combustion, without subsidiary hazard, and articles containing such substances”.

Amend subdivision “SW” to read as follows:

“SW Substances liable to spontaneous combustion, which, in contact with water, emit flammable gases and articles containing such substances:

SW1 Substances;

SW2 Articles”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.42.3 At the entry of the tree, replace “Substances liable to spontaneous combustion” by “Substances liable to spontaneous combustion and articles containing such substances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.42.3 Amend the branch for “Water-reactive SW” to read as follows:

Water-reactive SW	substances	SW1	3393 ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE 3394 ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE
	articles	SW2	(No collective entry with this classification code available; if need be, classification under a collective entry with a classification code to be determined according to the table of precedence of hazard in 2.1.3.10.)

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.43.3 At the entry of the tree, replace “Substances which, in contact with water, emit flammable gases” by “Substances which, in contact with water, emit flammable gases, and articles containing such substances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.43.3 For “W3”, for UN No. 3292, replace “SODIUM” by “METALLIC SODIUM OR SODIUM ALLOY” (twice).

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.52.4 In the table, for “ISOPROPYL sec-BUTYL PEROXYDICARBONATE+DI-sec-BUTYL PEROXYDICARBONATE+DI-ISOPROPYL PEROXYDICARBONATE”, in column “Concentration”, replace “ $\leq 32 + \leq 15 - 18 \leq 12 - 15$ ” by “ $\leq 32 + \leq 15 - 18 + \leq 12 - 15$ ”.

In the table, for “DI-2,4-DICHLOROBEZOYL PEROXIDE”, concentration “ ≤ 52 as a paste with silicon oil”, in column “Packing Method”, replace “OP7” by “OP5” and in column “Number (Generic entry)”, replace “3106” by “3104”.

In the table, add the following new entries:

DIBENZOYL PEROXIDE	≤ 42	≥ 38			≥ 13	OP8		3109	
2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY) HEXANE	≤ 22			≥ 78				Exempt	29)
METHYL ETHYL KETONE PEROXIDE(S)	See remark 33)	≥ 41			≥ 9	OP8		3105	33) 34)

After the table, add the following new remarks:

“33) Available oxygen ≤ 10 %.

34) Sum of diluent type A and water ≥ 55 %, and in addition methyl ethyl ketone.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.61.1.2 In the first sentence, after “Substances”, add “and articles”.

Amend the name of subdivision “T” to read “Toxic substances without subsidiary hazard and articles containing such substances”.

Amend the name of subdivision “TF” to read “Toxic substances, flammable, and articles containing such substances”. Under “TF”, add the following new subdivision: “TF4 Articles”.

Amend the name of subdivision “TC” to read “Toxic substances, corrosive, and articles containing such substances”. Under “TC”, add the following new subdivision: “TC5 Articles”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.61.3 Amend the titles before the trees to read:

“Toxic substances without subsidiary hazard(s), and articles containing such substances”

“Toxic substances with subsidiary hazard(s), and articles containing such substances”

For “TF3”, delete the entry for “1700 TEAR GAS CANDLES”.

For “TF”, after the branch for “TF3”, add the following new branch:

articles	TF4	1700 TEAR GAS CANDLES
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For “TC”, after the branch for “TC4”, add the following new branch:

articles	TC5	(No collective entry with this classification code available; if need be, classification under a collective entry with a classification code to be determined according to the table of precedence of hazard in 2.1.3.10.)
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(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.62.1.4.1 In the table, for UN 2814, in the entry for “Monkeypox virus”, at the end, add “(cultures only)”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.7.1.3 In the definition for “*Specific activity of a radionuclide*”, at the end, add the following new note:

NOTE: *The terms "activity concentration" and "specific activity" are synonymous for the purpose of ADN.*

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.2 For code M4, after “Lithium batteries” add “and sodium ion batteries”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.3 Place this paragraph number before the heading “*Definitions and classification*”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.4 Place this paragraph number before the heading “*Substances which, on inhalation as fine dust, may endanger health*”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.5 Place this paragraph number before the heading “*Substances and articles which, in the event of fire, may form dioxins*”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.6 Place this paragraph number before the heading “*Substances evolving flammable vapour*”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.7 Before 2.2.9.1.7, replace “*Lithium batteries*” by the following heading:

“2.2.9.1.7 *Lithium batteries and sodium ion batteries*”

Re-number current 2.2.9.1.7 as 2.2.9.1.7.1 with the following heading:

“2.2.9.1.7.1 *Lithium batteries*”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.7.1 (as renumbered) In sub-paragraph (g), at the end, add a new note to read as follows:

“NOTE: *The term "make available" means that manufacturers and subsequent distributors ensure that the test summary is accessible so that the consignor or other persons in the supply chain can confirm compliance.*”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

Add a new 2.2.9.1.7.2 to read as follows:

“2.2.9.1.7.2 Sodium ion batteries

Cells and batteries, cells and batteries contained in equipment, or cells and batteries packed with equipment containing sodium ion, which are a rechargeable electrochemical system where the positive and negative electrode are both intercalation or insertion compounds, constructed with no metallic sodium (or sodium alloy) in either electrode and with an organic non aqueous compound as electrolyte, shall be assigned to UN Nos. 3551 or 3552 as appropriate.

NOTE: *Intercalated sodium exists in an ionic or quasi-atomic form in the lattice of the electrode material.*

They may be carried under these entries if they meet the following provisions:

(a) Each cell or battery is of the type proved to meet the requirements of applicable tests of the Manual of Tests and Criteria, part III, sub-section 38.3;

NOTE: *Batteries shall be of a type proved to meet the testing requirements of the Manual of Tests and Criteria, part III, sub-section 38.3, irrespective of whether the cells of which they are composed are of a tested type.*

(b) Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under conditions normally encountered during carriage;

(c) Each cell and battery is equipped with an effective means of preventing external short circuits;

(d) Each battery containing cells or a series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g., diodes, fuses, etc.);

(e) Cells and batteries shall be manufactured under a quality management program as prescribed under 2.2.9.1.7.1 (e) (i) to (ix);

(f) Manufacturers and subsequent distributors of cells or batteries shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

NOTE: *The term "make available" means that manufacturers and subsequent distributors ensure that the test summary is accessible so that the consignor or other persons in the supply chain can confirm compliance.*

Sodium ion batteries are not subject to the provisions of ADN if they meet the requirements of special provisions 188 or 400 of Chapter 3.3.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

2.2.9.1.8 Place this paragraph number before the heading “Life-saving appliances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.9 Place this paragraph number before the heading “Environmentally hazardous substances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.10 Replace the current heading before 2.2.9.1.10 and the heading numbered 2.2.9.1.10 by:

“2.2.9.1.10 Pollutants to the aquatic environment: Environmentally hazardous substances (aquatic environment)”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.11 Place this paragraph number before the heading “Genetically modified microorganisms or organisms”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.11 Add the following new note 3 and renumber current notes 3 and 4 as notes 4 and 5:

“**NOTE 3:** *Pharmaceutical products (such as vaccines) that are packed in a form ready to be administered, including those in clinical trials, and that contain GMMOs or GMOs are not subject to ADN.*”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.13 Place this paragraph number before the heading “Elevated temperature substances”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.14 Place this paragraph number before the heading “Other substances and articles presenting a danger during carriage but not meeting the definitions of another class”.

In the introductory sentence, after “miscellaneous substances” add “and articles”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.1.15 Place this paragraph number before the heading “Assignment of the packing groups”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

2.2.9.2 In the first indent, after “Lithium batteries”, add “and sodium ion batteries”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

2.2.9.3 In the list of entries, for code “M4”, amend the branch header “Lithium batteries” to read “Lithium batteries and sodium ion batteries” and add the following new entries:

“3551 SODIUM ION BATTERIES with organic electrolyte

3552 SODIUM ION BATTERIES CONTAINED IN EQUIPMENT or SODIUM ION BATTERIES PACKED WITH EQUIPMENT, with organic electrolyte”.

In the list of entries, for code “M5”, add the following new entry:

“3559 FIRE SUPPRESSANT DISPERSING DEVICES”

In the list of entries, for code “M11”, add the following new entries:

“3556 VEHICLE, LITHIUM ION BATTERY POWERED

3557 VEHICLE, LITHIUM METAL BATTERY POWERED

3558 VEHICLE, SODIUM ION BATTERY POWERED”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 3.1

3.1.2.2 In the first sentence, delete “and” or”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 3.2

3.2.1 In the descriptive text for column (4), in the last sentence, replace “Certain articles and substances” by “Articles and certain substances”. Add the following new sentence at the end: “Packing groups may also be assigned via special provisions in Chapter 3.3 as indicated in column (6).”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II for the English version)

Chapter 3.2, table A

For UN Nos. 1006, 1046 and 1066, in column (6), replace “653” by “406”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 1010, in column (2), replace “40 %” by “20 %” and in column (6), add “402”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 1013, in column (6), delete “653” and after “392”, insert “406”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN Nos. 1204, 1310, 1320, 1321, 1322, 1336, 1337, 1344, 1347, 1348, 1349, 1354, 1355, 1356, 1357, 1517, 1571, 2059 (all entries), 2555, 2556, 2852, 2907, 3064, 3317, 3319, 3343, 3344, 3357, 3364, 3365, 3366, 3367, 3368, 3369, 3370 and 3376, in column (6), add “28”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 1700, in column (3b), replace “TF3” by “TF4”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 1774, in column (3b), replace “C11” by “C9”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 1835, packing group II:

In column (2), replace “SOLUTION” by “AQUEOUS SOLUTION with more than 2.5 % but less than 25 % tetramethylammonium hydroxide”;

In column (3b), replace “C7” by “CT1”;

In column (5), add “+6.1”;

In column (6) add “279 408”;

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

For UN No. 1835, packing group III, in column (2), replace “SOLUTION” by “AQUEOUS SOLUTION with not more than 2.5 % tetramethylammonium hydroxide” and in column (6) add “408”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2016, in column (3b), replace “T2” by “T10”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2017, in column (3b), replace “TC2” by “TC5”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2028, in column (4), delete “II”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2073, in column (6), delete “532”.

(Reference document: ECE/TRANS/WP.15/262, annex)

For UN Nos. 2210, 2870 (first entry), 3393 and 3394, in column (3b), replace “SW” by “SW1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2426, in column (6), delete “644”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2672, in column (6), delete “543”.

(Reference document: ECE/TRANS/WP.15/262, annex)

For UN No. 2795, in column (6), add “401”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2803, in column (6), add “365”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 2870 (second entry), in column (3b), replace “SW” by “SW2” and, in column (4), delete “I”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 3082, in column (6), insert: “650”.

(Reference document: ECE/TRANS/WP.15/258, annex II)

For UN Nos. 3090, 3091, 3480, 3481, in column (6), add “677”.

(Reference document: ECE/TRANS/WP.15/260, annex)

For UN No. 3165, in column (4), delete “I”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 3269 (two entries), in column (3b), replace “F3” by “F1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 3270, in column (6), add “403”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 3292, in column (2), replace “SODIUM” by “METALLIC SODIUM OR SODIUM ALLOY” (twice) and in column (6), add “401”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN No. 3423:

In column (3a), replace “8” by “6.1”;

In column (3b), replace “C8” by “TC2”;

In column (4), replace “II” by “I”;

In column (5), replace “8” by “6.1 + 8”;

In column (6), add “279”;

In column (7a), replace “1 kg” by “0”;

In column (7b), replace “E2” by “E5”;

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

For UN No. 3527 (both entries), in column (3b), replace “F4” by “F1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For UN Nos. 3537, 3538, 3540, 3541, 3546, 3547 and 3548, in column (6), after “274”, add “310”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Add the following new entries:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9)	(10)	(11)	(12)	(13)
0514	FIRE SUPPRESSANT DISPERSING DEVICES	1	1.4S		1.4	407	0	E0	*					
3551	SODIUM ION BATTERIES with organic electrolyte	9	M4		9A	188 230 310 348 376 377 400 401 636 677	0	E0						
3552	SODIUM ION BATTERIES CONTAINED IN EQUIPMENT or SODIUM ION BATTERIES PACKED WITH EQUIPMENT, with organic electrolyte	9	M4		9A	188 230 310 348 360 376 377 400 401 670 677	0	E0						
3553	DISILANE	2	2F		2.1	632 662	0	E0						
3554	GALLIUM CONTAINED IN MANUFACTURED ARTICLES	8	C11		8	366	5 kg	E0						
3555	TRIFLUOROMETHYLTETRAZOLE-SODIUM SALT IN ACETONE, with not less than 68 % acetone, by mass	3	D	II	3	28	0	E0						
3556	VEHICLE, LITHIUM ION BATTERY POWERED	9	M11		9A	388 666 667 669	0	E0						
3557	VEHICLE, LITHIUM METAL BATTERY POWERED	9	M11		9A	388 666 667 669	0	E0						
3558	VEHICLE, SODIUM ION BATTERY POWERED	9	M11		9A	388 404 666 667 669	0	E0						
3559	FIRE SUPPRESSANT DISPERSING DEVICES	9	M5		9	407	0	E0						
3560	TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION with not less than 25 % tetramethylammonium hydroxide	6.1	TC1	I	6.1 +8	279 408	0	E5						

* *To be completed by the informal working group on substances. The informal working group could also identify consequential amendments to Table C.*

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

Chapter 3.2, Table B

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

For “BATTERIES, CONTAINING SODIUM”, in the column for “Name and description”, replace “SODIUM” by “METALLIC SODIUM OR SODIUM ALLOY”.

For “BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED, containing more than 40 % butadienes”, replace “40 %” by “20 %”.

For “CELLS, CONTAINING SODIUM”, in the column for “Name and description”, replace “SODIUM” by “METALLIC SODIUM OR SODIUM ALLOY”.

Amend the entry for “TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION” to read as follows:

TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION	3560 1835	6.1 8
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For “TETRAMETHYLAMMONIUM HYDROXIDE, SOLID”, in the second column, replace “8” by “6.1”.

Add the following new entries in alphabetical order:

Batteries, sodium nickel chloride, see	3292	4.3
DISILANE	3553	2
FIRE SUPPRESSANT DISPERSING DEVICES	0514 3559	1 9
GALLIUM CONTAINED IN MANUFACTURED ARTICLES	3554	8
TRIFLUOROMETHYLTETRAZOLE-SODIUM SALT IN ACETONE, with not less than 68 % acetone, by mass	3555	3
SODIUM ION BATTERIES with organic electrolyte	3551	9
SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, with organic electrolyte	3552	9
SODIUM ION BATTERIES PACKED WITH EQUIPMENT, with organic electrolyte	3552	9
VEHICLE, LITHIUM ION BATTERY POWERED	3556	9
VEHICLE, LITHIUM METAL BATTERY POWERED	3557	9
VEHICLE, SODIUM ION BATTERY POWERED	3558	9

Chapter 3.3

SP 188 In (a), after “lithium ion”, insert “or sodium ion”.

In the note under (a), replace “2.2.9.1.7” by “2.2.9.1.7.1”.

In (b), first sentence, after “lithium ion”, insert “or sodium ion”. In the second sentence, after “Lithium ion”, insert “and sodium ion”. In the second sentence, replace “except those” by “except lithium ion batteries”.

In the note under (b), replace “2.2.9.1.7” by “2.2.9.1.7.1”.

In (c), after “Each”, insert “lithium”, replace “2.2.9.1.7” by “2.2.9.1.7.1” and after “(g)”, insert “or for sodium ion cells or batteries, the provisions of 2.2.9.1.7.2 (a), (e) and (f) shall apply”.

In (f), in the first and last paragraphs, replace “lithium battery mark” by “lithium battery or sodium ion battery mark”.

In the Note, replace “lithium battery mark” by “lithium battery or sodium ion battery mark”.

In the antepenultimate paragraph, second sentence, delete “lithium”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

SP 230 Replace “2.2.9.1.7” by “2.2.9.1.7.1”. At the end, add the following new sentence “Sodium ion cells and batteries may be carried under this entry if they meet the provisions of 2.2.9.1.7.2.”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 252 Amend to read as follows:

- “252 (1) Ammonium nitrate hot concentrated solutions can be carried under this entry provided:
- (a) The solution contains not more than 93 % ammonium nitrate;
 - (b) The solution contains at least 7 % water;
 - (c) The solution contains not more than 0.2 % combustible material;
 - (d) The solution contains no chlorine compounds in quantities such that the chloride ion level exceeds 0.02 %;
 - (e) The pH of an aqueous solution of 10 % of the substance is between 5 and 7, measured at 25 °C; and
 - (f) The maximum allowable carriage temperature of the solution is 140 °C.
- (2) Additionally, ammonium nitrate hot concentrate solutions are not subject to ADN provided:
- (a) The solution contains not more than 80 % ammonium nitrate;
 - (b) The solution contains not more than 0.2 % combustible material;
 - (c) The ammonium nitrate remains in solution under all conditions of carriage; and
 - (d) The solution does not meet the criteria of any other class.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 280 In the last sentence, at the end, add “or to fire suppressant dispersing devices described in special provision 407 (UN Nos. 0514 and 3559)”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 296 In (d), after “lithium batteries”, insert “or sodium ion batteries”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

SP 310 Amend the first paragraph to read as follows:

“310 Cells or batteries from production runs of not more than 100 cells or batteries, or pre-production prototypes of cells or batteries when these prototypes are carried for testing, shall meet the provisions of 2.2.9.1.7.1 with the exception of (a), (e) (vii), (f) (iii) if applicable, (f) (iv) if applicable and (g).

NOTE: “Carried for testing” includes, but is not limited to, testing described in the *Manual of Tests and Criteria, part III, sub-section 38.3, integration testing and product performance testing.*

These cells and batteries shall be packaged in accordance with packing instruction P910 of 4.1.4.1 of ADR or LP905 of 4.1.4.3 of ADR, as applicable.

Articles (UN Nos. 3537, 3538, 3540, 3541, 3546, 3547 or 3548) may contain such cells or batteries provided that the applicable parts of packing instruction P006 of 4.1.4.1 of ADR or LP03 of 4.1.4.3 of ADR, as applicable, are met.”

In the current second paragraph, replace “Carriage” by “Transport”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 328 In the last paragraph, replace “lithium metal or lithium ion” by “lithium metal, lithium ion or sodium ion”, replace the “or” before “UN 3481” by a comma and, at the end of the sentence, add “or UN 3552 SODIUM ION BATTERIES CONTAINED IN EQUIPMENT”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 348 Replace “Batteries” by “Lithium batteries”. After “2011” insert “and sodium ion batteries manufactured after 31 December 2025”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 360 In the first sentence, replace “lithium metal batteries or lithium ion batteries” by “lithium metal, lithium ion or sodium ion batteries” and replace “entry UN 3171 BATTERY-POWERED VEHICLE” by “entries UN 3556 VEHICLE, LITHIUM ION BATTERY POWERED or UN 3557 VEHICLE, LITHIUM METAL BATTERY POWERED or UN 3558 VEHICLE, SODIUM ION BATTERY POWERED, as applicable”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 363 In (f), amend the second sentence to read “However, lithium batteries shall meet the provisions of 2.2.9.1.7.1, except that (a), (e) (vii), (f) (iii) if applicable, (f) (iv) if applicable and (g) do not apply when batteries of a production run of not more than 100 cells or batteries, or pre-production prototypes of cells or batteries when these prototypes are carried for testing, are installed in machinery or engines.”. Add the following new third sentence: “Furthermore, sodium ion batteries shall meet the provisions of 2.2.9.1.7.2, except that (a), (e) and (f) do not apply when batteries of a production run of not more than 100 cells or batteries, or pre-production prototypes of cells or batteries when these prototypes are carried for testing, are installed in machinery or engines.”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

SP 365 After “mercury”, add “or gallium”. Replace “UN No. 3506” by “UN Nos. 3506 or 3554, as appropriate”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 366 After “mercury”, add “or gallium”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 371 In (1) (vi), first sentence, replace “16.6.1.3.1 to 16.6.1.3.6” by “16.6.1.3.1 to 16.6.1.3.4, 16.6.1.3.6”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 376 In the first paragraph, replace “Lithium ion cells or batteries and lithium metal cells or batteries” by “Lithium metal, lithium ion or sodium ion cells or batteries”.

In the paragraph after the note, replace “UN 3480 and UN 3481” by “UN 3480, UN 3481, UN 3551 and UN 3552, as appropriate”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1) (to be grouped with below amendment)

SP 376 In the fourth paragraph after the note, replace “or” by a comma and after “LITHIUM METAL BATTERIES”, add “or ”DAMAGED/DEFECTIVE SODIUM ION BATTERIES”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II) (to be grouped with below amendment)

SP 376 In the fifth paragraph, delete the last sentence, which reads “In both cases the cells and batteries are assigned to transport category 0.”.

(Reference document: ECE/TRANS/WP.15/260, annex)

SP 377 In the first paragraph, replace “Lithium ion and lithium metal” by “Lithium metal, lithium ion and sodium ion” and after “non-lithium”, insert “or non-sodium ion”.

In the second paragraph, replace “2.2.9.1.7 (a) to (g)” by “2.2.9.1.7.1 (a) to (g) or 2.2.9.1.7.2 (a) to (f) as appropriate”.

In the third paragraph, replace “or” by “, ”SODIUM ION BATTERIES FOR DISPOSAL”,”. At the end of the sentence, add “or ”SODIUM ION BATTERIES FOR RECYCLING”, as appropriate”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 379 In (d) (i), replace “ISO 11114-1:2012 + A1:2017” by “ISO 11114-1:2020”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 387 In the first sentence, replace “2.2.9.1.7” by “2.2.9.1.7.1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 388 Amend paragraph 5 to read as follows:

“Entry UN 3171 only applies to vehicles and equipment powered by wet batteries, metallic sodium batteries or sodium alloy batteries, carried with these batteries installed.”

After paragraph 5, add the following new paragraph:

“UN 3556 VEHICLE, LITHIUM ION BATTERY POWERED, UN 3557 VEHICLE, LITHIUM METAL BATTERY POWERED and UN 3558 VEHICLE, SODIUM ION BATTERY POWERED, as applicable, apply to vehicles powered by lithium ion, lithium metal or sodium ion batteries carried with the batteries installed.”

In paragraph 7 (old paragraph 6), combine and amend the last two sentences to read “When vehicles are carried in a packaging, some parts of the vehicle, other than the battery, may be detached from its frame to fit into the packaging.”.

In paragraph 9 (old paragraph 8), amend the second sentence to read “However, lithium batteries shall meet the provisions of 2.2.9.1.7.1, except that (a), (e) (vii), (f) (iii) if applicable, (f) (iv) if applicable and (g) do not apply when batteries of a production run of not more than 100 cells or batteries, or pre-production prototypes of cells or batteries when these prototypes are carried for testing, are installed in vehicles.”. Add the following new third sentence: “Furthermore, sodium ion batteries shall meet the provisions of 2.2.9.1.7.2, except that (a), (e) and (f) do not apply when batteries of a production run of not more than 100 cells or batteries, or pre-production prototypes of cells or batteries when these prototypes are carried for testing, are installed in vehicles.

In the last paragraph, delete “or equipment” (twice).

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

SP 389 In the first paragraph, replace “2.2.9.1.7” by “2.2.9.1.7.1”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 532 Delete and add “532 (Deleted)”.

(Reference document: ECE/TRANS/WP.15/262, annex)

SP 543 Delete and add “543 (Deleted)”.

(Reference document: ECE/TRANS/WP.15/262, annex)

SP 636 Amend as follows:

In the first paragraph:

Replace “lithium cells and batteries” by “lithium cells and batteries or sodium ion cells and batteries”;

Replace “lithium ion cells” by “lithium ion or sodium ion cells”;

Replace “lithium ion batteries” by “lithium ion or sodium ion batteries”;

Replace “other non-lithium cells or batteries,” by “other cells or batteries,”;

Replace “and 2.2.9.1.7” by “, 2.2.9.1.7.1 and 2.2.9.1.7.2”;

In sub-paragraph (b), after “lithium cells and batteries” add “and sodium ion cells and batteries”;

In the note under sub-paragraph (b), after “lithium cells and batteries” add “and sodium ion cells and batteries”;

Amend sub-paragraph (c) to read:

“(c) Packages are marked "LITHIUM BATTERIES FOR DISPOSAL", "LITHIUM BATTERIES FOR RECYCLING", "SODIUM ION BATTERIES FOR DISPOSAL" or "SODIUM ION BATTERIES FOR RECYCLING" as appropriate.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 644 Amend to read as follows:

“644 (Deleted)”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 650

- In the first sentence, replace “under the conditions of packing group II” by: “under the conditions of UN No. 1263, packing group II, or UN No. 3082, as appropriate”.
- In the second sentence, replace “provisions of UN No. 1263, packing group II” by: “provisions for UN No. 1263, packing group II, and UN No. 3082”.
- In paragraph (a), add the following new sentence at the end: “Mixed packing of waste classified as UN No. 1263 and waste water-based paints classified as UN No. 3082 is permitted”.
- In paragraph (d), after the first sentence, insert the following two new sentences: “Waste classified as UN No. 1263 may be mixed and loaded with waste water-based paints classified as UN No. 3082 in the same vehicle or container. In the case of such mixed loading the entire contents shall be assigned to UN No. 1263.”
- In paragraph (e), after “in accordance with 5.4.1.1.3.1”, add: “with the appropriate UN number(s)”. At the end, add:
 - “, or
 - “UN 3082 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT), 9, III”, or

“UN 3082 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT), 9, PG III”.”

(Reference document: ECE/TRANS/WP.15/258, annex II)

SP 653 Amend to read as follows:

“653 (Deleted)”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 666 Add a new sub-paragraph (e):

“(e) Vehicles that are fully enclosed by packagings, crates or other means that prevent ready identification are subject to the marking and labelling requirements of Chapter 5.2.”

At the end, add the following new paragraph:

“Alternatively, for sodium ion battery powered vehicles, see special provision 404.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 667 Amend (a) to read as follows:

“(a) (Deleted)”

In (b), replace “2.2.9.1.7” by “2.2.9.1.7.1 and 2.2.9.1.7.2” and replace “lithium cells or batteries” by “lithium cells or batteries or sodium ion cells or batteries”.

In (b)(ii), replace “the lithium cell or battery” by “the lithium cell or battery or the sodium ion cell or battery”.

In (c), replace “lithium cells or batteries” by “lithium cells or batteries or sodium ion cells or batteries”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 668 Amend the introductory sentence to read as follows:

“Substances for the purpose of applying road markings and bitumen or similar products for the purpose of repairing cracks and crevices in existing road surfaces, carried at elevated temperature, are not subject to the other requirements of ADN, provided that the following conditions are met:”.

(Reference document: ECE/TRANS/WP.15/262, annex)

SP 669 Replace “UN Nos. 3166 or 3171” by “UN No. 3166, 3171, 3556, 3557 or 3558 as appropriate”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

SP 670 Amend as follows:

In sub-paragraph (a):

In the first paragraph, after “Lithium cells and batteries” add “and sodium ion cells and batteries” and replace “376 and 2.2.9.1.7” by “376, 2.2.9.1.7.1 and 2.2.9.1.7.2”;

In (ii), after “other lithium cell or battery” add “or sodium ion cell or battery”;

In sub-paragraph (b):

In the first paragraph, after “lithium cells and batteries” add “and sodium ion cells and batteries” and replace “376 and 2.2.9.1.7” by “376, 2.2.9.1.7.1 and 2.2.9.1.7.2”;

In (ii), after “lithium cells or batteries” add “and sodium ion cells and batteries”;

In the note under (ii), replace “lithium cells and batteries in the equipment” by “lithium cells and batteries and sodium ion cells and batteries contained in equipment”;

In (iii), amend the first sentence to read “Packages are marked "LITHIUM BATTERIES FOR DISPOSAL", "LITHIUM BATTERIES FOR RECYCLING", "SODIUM ION BATTERIES FOR DISPOSAL" or "SODIUM ION BATTERIES FOR RECYCLING" as appropriate.”. In the second sentence, after “lithium cells or batteries” add “or sodium ion cells or batteries”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Add the following new special provisions:

“28 This substance may be carried under the provisions of Class 3 or Class 4.1 only if it is so packed that the percentage of diluent will not fall below that stated, at any time during carriage (see 2.2.3.1.1 and 2.2.41.1.18). In cases where the diluent is not stated, the substance shall be packed so that the amount of explosive substance does not exceed the stated value.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

“399 (Reserved)”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

“400 Sodium ion cells and batteries and sodium ion cells and batteries contained in or packed with equipment, prepared and offered for carriage, are not subject to other provisions of ADN if they meet the following:

- (a) The cell or battery is short-circuited, in a way that the cell or battery does not contain electrical energy. The short-circuiting of the cell or battery is easily verifiable (e.g., busbar between terminals);
- (b) Each cell or battery meets the provisions of 2.2.9.1.7.2 (a), (b), (d), (e) and (f);
- (c) Each package is marked according to 5.2.1.9;
- (d) Except when cells or batteries are installed in equipment, each package is capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents;
- (e) Cells and batteries, when installed in equipment are protected from damage. When batteries are installed in equipment, the equipment is packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging’s capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained;
- (f) Each cell, including when it is a component of a battery, only contains dangerous goods that are authorized to be carried in accordance with the provisions of Chapter 3.4 and in a quantity not exceeding the quantity specified in column (7a) of Table A of Chapter 3.2.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“401 Sodium ion cells and batteries with organic electrolyte shall be carried as UN No. 3551 or 3552 as appropriate. Sodium ion cells and batteries with aqueous alkali electrolyte shall be carried as UN No. 2795. Batteries containing metallic sodium or sodium alloy shall be carried as UN No. 3292.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“402 Substances carried under this entry shall have a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

“403 Nitrocellulose membrane filters covered by this entry with nitrocellulose content not exceeding 53 g/m² and a nitrocellulose net mass not exceeding 300 g per inner packaging, are not subject to the requirements of ADN if they meet the following conditions:

- (a) They are packed with paper separators of minimum 80 g/m² placed between each layer of nitrocellulose membrane filters;
- (b) They are packed to maintain the alignment of the nitrocellulose membrane filters and the paper separators in any of the following configurations:
 - (i) Rolls tightly wound and packed in plastic foil of minimum 80 g/m² or aluminium pouches with an oxygen permeability of equal or less than 0.1 % in accordance with standard ISO 15105-1:2007;
 - (ii) Sheets packed in cardboard of minimum 250 g/m² or aluminium pouches with an oxygen permeability of equal or less than 0.1 % in accordance with standard ISO 15105-1:2007;
 - (iii) Round filters packed in disc holders or cardboard packaging of minimum 250 g/m² or single packed in pouches of paper and plastic material of total minimum 100 g/m².”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

(as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“404 Vehicles powered by sodium ion batteries, containing no other dangerous goods, are not subject to other provisions of ADN, if the battery is short-circuited in a way that the battery does not contain electrical energy. The short-circuiting of the battery shall be easily verifiable (e.g., busbar between terminals).”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

“405 (Reserved)”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

“406 Substances under this entry may be carried in accordance with the limited quantity provisions of Chapter 3.4 when carried in pressure receptacles containing not more than 1 000 ml. The pressure receptacles shall meet the requirements of packing instruction P200 of 4.1.4.1 of ADR and have a test pressure capacity product not exceeding 15.2 MPa·l (152 bar·l). The pressure receptacles shall not be packed together with other dangerous goods.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“407 Fire suppressant dispersing devices are articles which contain a pyrotechnic substance, which are intended to disperse a fire extinguishing agent (or aerosol) when activated, and which do not contain any other dangerous goods. These articles, as packaged for carriage, shall fulfil the criteria for Division 1.4, Compatibility Group S, when tested in accordance with test series 6 (c) of Section 16 of Part I of the Manual of Tests and Criteria. The device shall be carried with either the means of activation removed or equipped with at least two independent means to prevent accidental activation.

Fire suppressant dispersing devices shall only be assigned to Class 9, UN No. 3559 if the following additional conditions are met:

- (a) The device meets the exclusion criteria in 2.2.1.1.8.2 (b), (c) and (d);
- (b) The suppressant is deemed safe for normally occupied spaces in compliance with international or regional standards (e.g. the United States of America National Fire Protection Association standard for fixed aerosol fire-extinguishing systems NFPA 2010);
- (c) The article is packaged in a manner such that when activated, temperatures of the outside of the package do not exceed 200 °C;
- (d) This entry is used only with the approval of the competent authority of the country of manufacture.*

This entry does not apply to "SAFETY DEVICES, electrically initiated" described in special provision 280 (UN No. 3268)."

Footnote * reads:

“* *If the country of manufacture is not a Contracting Party to ADN, the approval shall be recognized by the competent authority of a Contracting Party to ADN.*”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“408 This entry applies only to aqueous solutions comprised of water, tetramethylammonium hydroxide (TMAH), and no more than 1 % of other constituents. Other formulations containing tetramethylammonium hydroxide shall be assigned to an appropriate generic or N.O.S. entry (e.g., UN No. 2927, TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.), except as follows:

- (a) Other formulations containing a surfactant in a concentration > 1 % and with not less than 8.75 % tetramethylammonium hydroxide shall be assigned to UN No. 2927, TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., PG I; and
- (b) Other formulations containing a surfactant in a concentration > 1 % and with more than 2.38 % but less than 8.75 % tetramethylammonium hydroxide shall be assigned to UN No. 2927, TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., PG II.”

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

“SP 677 Cells and batteries which, in accordance with special provision 376, are identified as damaged or defective and liable to rapidly disassemble, dangerously react, produce a flame or a dangerous evolution of heat or a dangerous emission of toxic, corrosive or flammable gases or vapours under normal conditions of carriage, shall be assigned to transport category 0. In the transport document, the words "Carriage in accordance with special provision 376" shall be supplemented by the words "Transport category 0".”

(Reference document: ECE/TRANS/WP.15/260, annex)

Replace “399-499 (Reserved)” by “409-499 (Reserved)”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

Chapter 5.2

5.2.1.9 In the heading, after “*Lithium battery*”, insert “*or sodium ion battery*”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

- 5.2.1.9.1 After “lithium cells or batteries”, insert “or sodium ion cells or batteries”.
(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.2.1.9.1 Replace “special provision 188” by “special provisions 188 or 400”.
(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.2.1.9.2 In the first paragraph, first sentence, replace the “or” before “UN 3480” by a comma and at the end of the sentence, add “, or UN 3551” for sodium ion cells or batteries”. In the second sentence, delete “lithium” and replace “UN 3091” or “UN 3481” by “UN 3091”, “UN 3481” or “UN 3552”. In the third sentence, delete “lithium”.

In the heading of figure 5.2.1.9.2, after “**Lithium battery**”, insert “**or sodium ion battery**”.

In the last paragraph, third sentence, replace “UN number” by “UN number(s)” and delete “for lithium ion or lithium metal batteries or cells”.
(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.2.2.1.12.1 Replace “lithium batteries” by “lithium batteries or sodium ion batteries”, and “lithium battery mark” by “lithium battery or sodium ion battery mark”.
(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1 as amended in ECE/TRANS/WP.15/AC.1/170, annex II)

Chapter 5.3

- 5.3 Under the chapter title, add a new note to read as follows:
“**NOTE 3:** Removable skips not conforming to Chapter 6.11 of ADR are considered as containers under this Chapter.”
(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.3.1.4 In the heading, replace “**Placarding of vehicles for carriage in bulk, wagons for carriage in bulk**” by “**Placarding of vehicles and wagons when used for carriage in bulk**”.
(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.3.2.3.2 Delete the line “78 Radioactive material, corrosive”.
(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

Chapter 5.4

- 5.4.0.2 At the end, add the following new sentence: “The information prescribed in this Chapter related to the dangerous goods carried shall be available during carriage in such a way that the goods per vessel and the vessel can be identified in the documentation.”
(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)
- 5.4.1.1.1 In (c), third indent, delete “lithium” and replace “and 3481” by “, 3481, 3551 and 3552 as well as for battery-powered vehicles of UN Nos. 3556, 3557 and 3558”.
(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)
- 5.4.1.1.1 The amendment to (g) in the French version does not apply to the English text.
(Reference document: ECE/TRANS/WP.15/262, annex)

5.4.1.1.3.2 The amendment to (b) does not apply to the English version.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

5.4.1.1.3.2 In the second dashed bullet, after “2.1.3.5.3”, insert “(with the exception of UN No. 3291, clinical waste, unspecified, n.o.s. or (bio)medical waste, n.o.s. or regulated medical waste, n.o.s. in packaging conforming to packing instruction P621 of ADR)”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II)

5.4.1.1.21 Amend to read as follows:

“5.4.1.1.21 *Information required in specific cases defined in other parts of ADN*

Where in accordance with provisions in chapters 3.3, 3.5, 4.1 of ADR, 4.2 of ADR, 4.3 of ADR and 5.5 information is necessary, this information shall be included in the transport information.”

(Reference document: ECE/TRANS/WP.15/262, annex)

Chapter 5.5

5.5.3.3.1 Replace “P650, P800, P901 or P904” by “P650 or P800”.

(Reference document: ECE/TRANS/WP.15/AC.1/2023/23/Add.1)

II. Draft amendments to annexes A and B of ADR for entry into force on 1 January 2025 for examination and finalization by the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

Chapter 3.2, table A

For UN Nos. 2212 and 2590, in column (6), add “678”.

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II) (see also informal document INF.7)

Chapter 3.3

3.3.1 Add the following new special provision:

“678 Waste consisting of objects and materials contaminated with free asbestos (UN Nos. 2212 and 2590), which is not fixed or immersed in a binder in such a way that no emission of hazardous quantities of respirable asbestos can occur, may be carried under the provisions of Chapter 7.3 provided the following provisions are complied with:

- (a) The waste is carried only from the site where it is generated to a final disposal facility. Between these two types of sites, only intermediate storage operations, without unloading or transferring the container-bag, are authorized;
- (b) The waste belongs to one of these categories:
 - (i) Solid waste from roadworks, including asphalt milling waste contaminated with free asbestos and its sweeping residues;
 - (ii) Soil contaminated with free asbestos;
 - (iii) Objects (for example, furniture) contaminated with free asbestos from damaged structures or buildings;
 - (iv) Materials from damaged structures or buildings contaminated with free asbestos which, because of their volume or mass, cannot be packed in accordance with the packing instruction applicable to the UN number used (UN No. 2212 or 2590, as appropriate); or
 - (v) Construction site waste contaminated with free asbestos from demolished or rehabilitated structures or buildings which, because of their size or mass, cannot be packed in accordance with the packing instruction applicable to the UN number used (UN No. 2212 or 2590, as appropriate);
- (c) Waste covered by these provisions shall not be mixed or loaded with other asbestos-containing waste or any other hazardous or non-hazardous waste;
- (d) Each shipment shall be considered a full load as defined in 1.2.1; and
- (e) The transport document shall be in conformity with 5.4.1.1.4.”

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II) (see also informal document INF.7)

Chapter 5.4

[5.4.1.1.3 Add a new 5.4.1.1.3.3 as follows:

“5.4.1.1.3.3 Special provisions for the carriage of waste in inner packagings packed together in an outer packaging

For carriage in accordance with 4.1.1.5.3 of ADR, a statement shall be included in the transport document, as follows "Carriage in accordance with 4.1.1.5.3 of ADR". The additional statement prescribed in 5.4.1.1.3.2 is not necessary. For example:

"UN 1993, WASTE FLAMMABLE LIQUID, N.O.S., 3, III, CARRIAGE IN ACCORDANCE WITH 4.1.1.5.3 of ADR".

Information in the transport document in accordance with 5.4.1.1, shall be based on the entry or entries assigned to the outer packaging in accordance with 4.1.1.5.3 (d) of ADR. The technical name, as prescribed in Chapter 3.3, special provision 274, need not be added.”]

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex III)

5.4.1.1 Add a new 5.4.1.1.4 to read as follows:

“5.4.1.1.4 *Special provisions for wastes contaminated with free asbestos (UN Nos. 2212 and 2590)*

When special provision 678 is applied, the transport document shall be marked "Carriage under special provision 678".

The description of wastes carried in accordance with sub-paragraphs (b) (i), (ii), (iii), (iv) and (v) of special provision 678 shall be added to the description of dangerous goods required in 5.4.1.1.1 (a) to (d) and (k). The transport document shall also be accompanied by the following documents:

- (a) A copy of the technical data sheet for the type of container-bag used, on the manufacturer's or distributor's letterhead, giving the dimensions of the packaging and its maximum mass;
- (b) A copy of the unloading procedure in accordance with special provision CV38 of 7.5.11 of ADR, if applicable.”

(Reference document: ECE/TRANS/WP.15/AC.1/170, annex II) (see also informal document INF.7)
