

MARITIME SAFETY COMMITTEE
102nd session
Agenda item 24

MSC 102/24/Add.2/Corr.1
3 February 2022
ENGLISH ONLY

**REPORT OF THE MARITIME SAFETY COMMITTEE ON
ITS 102ND SESSION**

Corrigendum*

ANNEX 4

**RESOLUTION MSC.477(102) – AMENDMENTS TO THE INTERNATIONAL
MARITIME DANGEROUS GOODS (IMDG) CODE**

(Editorial corrections to the English version)

**PART 1
GENERAL PROVISIONS, DEFINITIONS AND TRAINING**

**Chapter 1.2
Definitions, units of measurement and abbreviations**

1.2.1 Definitions

In the definition for "*Liquids*", the corresponding footnote is amended to read as follows: "United Nations Publication: ECE/TRANS/275 (Sales No. E.18.VIII.1)."

In the definition for "*Manual of Tests and Criteria*", replace the words "the sixth revised edition" by the words "the seventh revised edition".

**Chapter 1.5
General provisions concerning radioactive material**

1.5.6 Non-compliance

1.5.6.1.2.4 Replace the word "protective" by the word "preventive".

* Applicable only to the English version of resolution MSC.477(102).

PART 2 CLASSIFICATION

Chapter 2.1 Class 1 – Explosives

2.1.3 Classification procedure

2.1.3.5 Assignment of fireworks to hazard divisions

2.1.3.5.5 Default fireworks classification table*

In the "Default fireworks classification table", with regard to "Preloaded mortar, shell in mortar", 1.3G, replace the words "Colour shell: ≤ 50 mm, or < 60 g pyrotechnic substance, with $\leq 25\%$ flash composition as loose powder and/or report effects" by the words "Colour shell: ≤ 50 mm, or ≤ 60 g pyrotechnic substance, with $\leq 25\%$ flash composition as loose powder and/or report effects".

Chapter 2.4 Class 4 – Flammable solids; substances liable to spontaneous combustion; substances which, in contact with water, emit flammable gases

2.4.1 Definition and general provisions

2.4.1.2 In the last paragraph, replace the words "chapter 33" by the words "section 33".

2.4.2 Class 4.1 – Flammable solids, self-reactive substances, solid desensitized explosives and polymerizing substances

2.4.2.2 Class 4.1 Flammable solids

2.4.2.2.2 *Classification of flammable solids*

2.4.2.2.2.1 Replace the word "33.2.1" by the words "sub-section 33.2".

2.4.2.3 Class 4.1 Self-reactive substances

2.4.2.3.4 *Temperature control provisions*

2.4.2.3.4.1 Replace the words "chapter 28" by the words "section 28".

2.4.3 Class 4.2 – Substances liable to spontaneous combustion

2.4.3.2 Classification of class 4.2 substances

2.4.3.2.1 Replace the word "33.3.1.4" by the words "sub-section 33.4.4".

2.4.3.2.2 Replace the word "33.3.1.5" by the words "sub-section 33.4.5".

2.4.3.2.3 *Self-heating substances*

2.4.3.2.3.1 Replace the word "33.3.1.6" by the word "sub-section 33.4.6".

Chapter 2.5
Class 5 – Oxidizing substances and organic peroxides

2.5.3 Class 5.2 – Organic peroxides

2.5.3.4 Temperature control provisions

2.5.3.4.2 Replace the words "chapter 28" by the words "section 28".

2.5.3.4.3 Replace the words "chapter 32.4" by the words "sub-section 32.4".

Chapter 2.7
Class 7 – Radioactive material

2.7.2 Classification

2.7.2.3 Determination of other material characteristics

2.7.2.3.1 *Low specific activity (LSA) material*

2.7.2.3.1.4 Deleted, and add the words "2.7.2.3.1.4 Deleted".

2.7.2.3.1.5 Deleted, and add the words "2.7.2.3.1.5 Deleted".

2.7.2.3.2 *Surface contaminated object (SCO)*

2.7.2.3.2.3 In the first sentence, replace the words "in these Regulations" by the words "in this Code".

2.7.2.3.4 *Low dispersible material*

2.7.2.3.4.1.3 In the first sentence, replace "2.7.2.3.1.4" by "2.7.2.3.4.3".

2.7.2.3.4.3 Insert a new paragraph 2.7.2.3.4.3 to read as follows:

"2.7.2.3.4.3 A solid material sample representing the entire contents of the package shall be immersed for seven days in water at ambient temperature. The volume of water to be used in the test shall be sufficient to ensure that at the end of the seven-day test period the free volume of unabsorbed and unreacted water remaining shall be at least 10% of the volume of the solid test sample itself. The water shall have an initial pH of 6 to 8 and a maximum conductivity of 1 mS/m at 20°C. The total activity of the free volume of water shall be measured following the seven-day immersion of the test sample."

Renumber the existing paragraphs 2.7.2.3.4.3 to 2.7.2.3.4.4 and replace the words "2.7.2.3.4.1 and 2.7.2.3.4.2" by the words "2.7.2.3.4.1, 2.7.2.3.4.2 and 2.7.2.3.4.3".

Chapter 2.8
Class 8 – Corrosive substances

2.8.3 Packing group assignment for substances and mixtures

2.8.3.2 In the second sentence, replace the words "these regulations" with the words "this Code".

Chapter 2.9
Miscellaneous dangerous substances and articles (class 9)
and environmentally hazardous substances

2.9.3 Environmentally hazardous substances (aquatic environment)

2.9.3.4 Mixtures classification categories and criteria

2.9.3.4.3 *Classification of mixtures when toxicity data are available for the complete mixture*

2.9.3.4.3.3 *Classification for category Acute 1.*

In (b), replace the words "these Regulations" by the words "this Code".

2.9.3.4.3.4 *Classification for categories Chronic 1 and 2.*

In (b), replace the words "these Regulations" by the words "this Code".

PART 3
DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND EXCEPTIONS

Chapter 3.1
General

3.1.4 Segregation groups

3.1.4.4 In the entry "**18 Alkalis (SGG18)**", in the entry for UN 3274, replace the text to read "Alcoholates solution, n.o.s. in alcohol".

Chapter 3.2
Dangerous Goods List

In column 15 of the Dangerous Goods List, replace "5.4.3.2" by "5.4.3.4".

Dangerous Goods List

UN No.	Amendment
0030	In column 6, add "399"
0255	In column 6, add "399"
0456	In column 6, add "399"
0511	In column 6, add "399"
0512	In column 6, add "399"
0513	In column 6, add "399"
1056	In column 16a, delete "SW1"
2037	In column 9, move "PP17" above "PP96"

Chapter 3.3
Special provisions applicable to certain substances, materials or articles

SP241 Replace the words "paragraph 33.2.1.4" by the words "sub-section 33.2.4".

SP288 Replace the words "and series 6(c) tests" by the words "and a series 6(c) test".

SP372 In the sixth paragraph, replace the words "these regulations" by the words "this Code".

Add the following new special provision:

"399 For articles that meet the definition for DETONATORS, ELECTRONIC as described in appendix B and assigned to UN Nos. 0511, 0512 and 0513, the entries for DETONATORS, ELECTRIC (UN Nos. 0030, 0255 and 0456) may continue to be used until 30 June 2025."

PART 4
PACKING AND TANK PROVISIONS

Chapter 4.1
Use of packagings, including intermediate bulk containers (IBCs)
and large packagings

4.1.2 Additional general provisions for the use of IBCs

4.1.2.2.1 and 4.1.2.2.2 Delete both paragraphs and insert the following new paragraph:

"4.1.2.2 Every metal, rigid plastics and composite IBC shall be inspected and tested, as relevant, in accordance with 6.5.4.4 or 6.5.4.5:

- before it is put into service;
- thereafter at intervals not exceeding two and a half and five years, as appropriate; and
- after the repair or remanufacture, before it is re-used for transport.

An IBC shall not be filled and offered for transport after the date of expiry of the last periodic test or inspection. However, an IBC filled prior to the date of expiry of the last periodic test or inspection may be transported for a period not to exceed three months beyond the date of expiry of the last periodic test or inspection. In addition, an IBC may be transported after the date of expiry of the last periodic test or inspection:

- .1 after emptying but before cleaning, for purposes of performing the required test or inspection prior to refilling; and
- .2 unless otherwise approved by the competent authority, for a period not to exceed six months beyond the date of expiry of the last periodic test or inspection in order to allow the return of dangerous goods or residues for proper disposal or recycling. Reference to this exemption shall be entered in the transport document."

4.1.4 List of packing instructions

4.1.4.1 Packing instructions concerning the use of packagings (except IBCs and large packagings)

P802 In special packing provision PP79, replace the words "hydrofluoric acid" by the words "hydrogen fluoride".

4.1.4.2 Packing instructions concerning the use of IBCs

IBC08 In paragraph (3), replace the word "21HZ" by the word "21HZ1".

4.1.4.3 Packing instructions concerning the use of large packagings

LP622 In column "Outer packagings", replace the text to read as follows:

"Steel (50A)
Aluminium (50B)
Metal other than steel or aluminium (50N)
Plywood (50D)
Rigid fibrewood (50G)
Rigid plastics (50H)".

LP906 In the footnote paragraph (c), replace the words "thermal conductivity [$\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$]" by the words "thermal conductivity [$\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$]".

PART 5 CONSIGNMENT PROCEDURES

Chapter 5.3 Placarding and marking of cargo transport units and bulk containers

5.3.1 Placarding

5.3.1.1 Placarding provisions

5.3.1.1.5 Special provisions for class 7

5.3.1.1.5.1 In the first sentence, after the word "SCO-I", add the words "or SCO-III".

Chapter 5.4 Documentation

5.4.1 Dangerous goods transport information

5.4.1.4 Information required on the dangerous goods transport document

5.4.1.4.4 *Examples of dangerous goods descriptions:*

Replace both entries for "UN 1098" by the following:

"UN 1603, ETHYL BROMOACETATE 6.1 (3) II (58°C c.c.)
UN 1603, ETHYL BROMOACETATE, class 6.1, (class 3), PG II, (58°C c.c.)."

5.4.1.5 Information required in addition to the dangerous goods description

5.4.1.5.7 *Radioactive material*

5.4.1.5.7.1.6.2 Replace "2.7.2.3.5.1" by "2.7.2.3.5.3".

5.4.3 Documentation required aboard the ship

5.4.3.1 Replace the words "regulation 4.2 of Annex III of MARPOL" by the words "regulation 5.2 of Annex III of MARPOL".

5.4.5 Multimodal Dangerous Goods Form

5.4.5.1 Replace the words "MARPOL, Annex III, regulation 4" by the words "MARPOL, Annex III, regulation 5".

PART 6
CONSTRUCTION AND TESTING OF PACKAGINGS, INTERMEDIATE BULK
CONTAINERS (IBCs), LARGE PACKAGINGS, PORTABLE TANKS, MULTIPLE-
ELEMENT GAS CONTAINERS (MEGCs) AND ROAD TANK VEHICLES

Chapter 6.4
Provisions for the construction, testing and approval
of packages and radioactive material

6.4.12 Test procedures and demonstration of compliance

6.4.12.1 In the first sentence, delete the words "2.7.2.3.1.3, 2.7.2.3.1.4", and after "2.7.2.3.4.2" insert "2.7.2.3.4.3".

6.4.12.2 Delete the words "2.7.2.3.1.3, 2.7.2.3.1.4," and after "2.7.2.3.4.2" insert "2.7.2.3.4.3".

6.4.14 Target for drop tests

Replace "2.7.2.3.3.5" by "2.7.2.3.3.5.1".

6.4.24 Transitional measures for class 7

6.4.24.1 In 6.4.24.1(a)(i) and (b)(i), replace "6.4.24.4" by "6.4.24.5".

6.4.24.2 In the first sentence, replace the words "these Regulations" by the words "this Code".

6.4.24.3 Delete the words "1973, 1973 (as amended)". Replace the word "and" by the word "or".

6.4.24.6 In the first and second paragraphs, replace the word "and" by the word "or" (*twice each*).

Chapter 6.5
Provisions for the construction and testing
of intermediate bulk containers (IBCs)

6.5.5 Specific provisions for IBCs

6.5.5.1 Specific provisions for metal IBCs

6.5.5.1.6 *Minimum wall thickness*

6.5.5.1.6.1 Under the words "A_o = minimum elongation (as a percentage) of the reference steel to be used on fracture under tensile stress (see 6.5.5.1.5).", add the following words:

"C = the capacity in litres".

Chapter 6.6
Provisions for the construction and testing
of large packagings

6.6.3 Marking

6.6.3.4 In the last sentence, replace the word "packaging" by the words "large packaging".

PART 7
PROVISIONS CONCERNING TRANSPORT OPERATIONS

Chapter 7.2
General segregation provisions

7.2.4 Segregation table

In the table, in column "CLASS", in the entry for "Flammable solids", class 4.1, replace the text to read "Flammable solids, self-reactive substances, solid desensitized explosives and polymerizing substances".

7.2.6 Special segregation provisions and exemptions

7.2.6.2 Replace the text "The Dangerous Goods List entry specifies "SG5 ("segregation as for class 3)", "SG8 (stow "away from" class 4.1)" and "SG13 (stow "away from class 8)" "with the text "The Dangerous Goods List entry specifies "SG5 ("segregation as for class 3)", "SG8 (stow "away from" class 4.1)", "SG13 (stow "away from class 8)", "SG25 (stow "separated from" goods of classes 2.1 and 3)" and "SG26 (in addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6m athwartship shall be maintained.)"."

Annex

Segregation flow chart

In the flow chart, replace "7.2.6.4" by "7.2.6.5".

Examples

In the examples, replace "7.2.6.4" by "7.2.6.5" (*three times*).

Chapter 7.3
Consigning operations concerning the packing and use
of cargo transport units (CTUs) and related provisions

7.3.4 Segregation provisions within cargo transport units

7.3.4.2 Segregation in relation to foodstuffs

7.3.4.2.1 Replace the words "having a reference to 7.3.4.2.1 in column 16b" by the words "for which it is referred to in segregation code SG29 or SG50 in column 16b".

Chapter 7.7
Shipborne barges on barge-carrying ships

7.7.3 Barge loading

7.7.3.6 Replace the words "having a reference to 7.7.3.6 in column 16b" by the words "for which it is referred to in segregation code SG29 or SG50 in column 16b".

Chapter 7.9

Exemptions, approvals and certificates

7.9.3 Contact information for the main designated national competent authorities

In the table, in the entry for "FRANCE", in column for "Contact information for the main designated national competent authority", replace the words "Ministère de la Transition écologique et solidaire" by the words "Ministère de la transition écologique", and replace the word "MTES" by the word "MTE".

In the table, in the entry for "GERMANY", in column "Contact information for the main designated national competent authority", replace the words "Division G 24" by the words "Division G 16", replace "+49 228 300 2551" by "+49 228 300 2471", replace "+49 228 300 807 2551" by "+49 228 300 807 2471", replace "ref-g24@bmvi.bund.de" by "ref-g16@bmvi.bund.de", delete "+49 30 8104 3407", delete "Fax: +49 30 8104 1227" and replace "ingo.doering@bam.de" by "seeverkehr@bam.de".

INDEX

In the entry for "DI-(4-*tert*-butylcyclohexyl) peroxydicarbonate (concentration ≤ 42%, as a paste), *see*", in column "UN No." replace "3116" by "3118".

Add the following new entries in alphabetical order:

"

Substance, material or article	MP	Class	UN. No.
<i>tert</i> -Amyl peroxy-pivalate, not more than 42%, stable dispersion, in water		5.2	3119
<i>tert</i> -Butyl peroxy-pivalate, not more than 42% in diluent type A		5.2	3119
Picrotoxin, <i>see</i>		6.1	3172
Picrotoxin, <i>see</i>		6.1	3462

"