

International Maritime Dangerous Goods (IMDG) Code, 2020 Edition

Amendment 40-20

Corrigenda May 2022

This corrigenda makes editorial corrections to the English version of the IMDG Code (Amendment 40-20, as adopted by resolution MSC.477(102)).

Volume 1

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” with “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” with “preventive”.*

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 ≤ 25% flash composition as loose powder and/or report effects” with “Colour shell: ≤ 50 mm, or ≤ 60 g pyrotechnic substance, with ≤ 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” with “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 “33.2.1” with “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 “chapter 28” with “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 “33.3.1.4” with “sub-section 33.4.4”.*

2.4.3.2.2 *Replace “33.3.1.5” with “sub-section 33.4.5”.*

2.4.3.2.3 *Self-heating substances*

2.4.3.2.3.1 *Replace “33.3.1.6” with “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 “chapter 28” with “section 28”.*

2.5.3.4.3 *Replace “chapter 32.4” with “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 *Delete the existing text and add the words “2.7.2.3.1.4 Deleted”.*

2.7.2.3.1.5 *Delete the existing text 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” with “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” with “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 “2.7.2.3.4.1 and 2.7.2.3.4.2” with “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 third 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” with “this Code”.

2.9.3.4.3.4 Classification for categories Chronic 1 and 2.

In (b), replace the words “these Regulations” with “this Code”.

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” with “hydrogen fluoride”.*

4.1.4.2 Packing instructions concerning the use of IBCs

IBC08 *In paragraph (3), replace “21HZ” with “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 “thermal conductivity [W·m⁻¹·K⁻¹]” with “thermal conductivity [W·m⁻¹·K⁻¹]”.*

Chapter 4.2 Use of portable tanks and multiple-element gas containers (MEGCs)

4.2.3 General provisions for the use of portable tanks for the transport of refrigerated liquefied gases of class 2

4.2.3.7 Actual holding time

4.2.3.7.3 *Replace “(see 5.4.1.5.13)” with “(see 5.4.1.5.18)”.*

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 “SCO-I”, add “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” with 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” with “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” with “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” with “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 for radioactive material and for the approval of such material

6.4.12 Test procedures and demonstration of compliance

6.4.12.1 In the first sentence, delete “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 “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” with “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” with “6.4.24.5”.

6.4.24.2 In the first sentence, replace the words “these Regulations” with “this Code”.

6.4.24.3 Delete “1973, 1973 (as amended)”. Replace the word “and” with “or”.

6.4.24.6 In the first and second paragraphs, replace the word “and” with “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_0 = 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:

“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” with 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” with “7.2.6.5”.

Examples

In the examples, replace “7.2.6.4” with “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” with “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” with “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 the column for “Contact information for the main designated national competent authority”, replace the words “Ministère de la Transition écologique et solidaire” with “Ministère de la transition écologique” and replace “MTES” with “MTE”.

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

In the table, in the entry for “SPAIN”, in the column for “Contact information for the main designated national competent authority”, replace the words “Subdirección General de Seguridad Marítima y Contaminación” with “Subdirección General de Seguridad, Contaminación e Inspección marítima”, replace “mercancias.peligrosas@fomento.es pmreal@fomento.es” with “mmpp.dgmm@mitma.es”, replace “Telephone: +34 91 349 43 03” with “Telephone +34 91 349 5108”, replace “Fax: +34 91 349 43 00” with “Fax: +34 91 349 4300” and insert “Email: csegind@mincotur.es” below the fax number for Subdirección General de Calidad y Seguridad Industrial.

Volume 2

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” with “5.4.3.4”.

| 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” with “sub-section 33.2.4”.

SP288 Replace the words “and series 6(c) tests” with “and a series 6(c) test”.

SP372 In the sixth paragraph, replace the words “these regulations” with “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.”

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

Add the following new entries in alphabetical order:

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