# International Maritime Dangerous Goods (IMDG) Code, 2014 Edition

incorporating Amendment 37-14

## Errata and Corrigenda December 2015

This Errata and Corrigenda makes editorial corrections to the English version of the IMDG Code (Amendment 37-14, as adopted by resolution MSC.372(93)).

## Volume 1

## **Table of Contents**

- 1.5.3 In the subtitle *replace* "Quality assurance" *with* "Management system".
- 6.2.4 In the subtitle *insert* the word "flammable" after the word "liquefied".
- 6.4 The title for Chapter 6.4 is *replaced with* the following:

"Provisions for the construction, testing and approval of packages for radioactive material and for the approval of such material".

## PART 1 - GENERAL PROVISIONS, DEFINITIONS AND TRAINING

## Chapter 1.1 General provisions

- 1.1.1 Application and implementation of the Code
- 1.1.1.9 Lamps containing dangerous goods
- 1.1.1.9.3 In the note *delete* "Lamps containing gases of class 2.2 are addressed in 2.2.2.6.4 and".

## Chapter 1.2 Definitions, units of measurement and abbreviations

#### 1.2.1 Definitions

In the definition for Design, replace "2.7.3.5.6" with "2.7.2.3.5.6".

In the definition for GHS, replace "fourth" with "fifth".

### **Chapter 1.5** General provisions concerning radioactive material

- 1.5.1 Scope and application
- **1.5.1.1** In paragraph 1.5.1.1, the last sentence is *replaced with* the following:

"Explanatory material can be found in "Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2012 Edition)", IAEA Safety Standards Series No. SSG-26, IAEA, Vienna (2014)."

1.5.1.5.1 In subparagraph .1 after the reference "5.1.5.2.2" insert ", 5.1.5.2.3".

#### **PART 2 - CLASSIFICATION**

#### Chapter 2.0 Introduction

- 2.0.3 Classification of substances, mixtures and solutions with multiple hazards (precedence of hazard characteristics)
- 2.0.3.6 Precedence of hazards
- 2.0.3.6 In the sentence below the table *replace* "2.0.3" with "2.0.3.4 and 2.0.3.5".

## Chapter 2.2 Class 2 - Gases

### 2.2.1 Definitions and general provisions

2.2.1.3 After the words "refrigerated liquefied gases,", insert the words "adsorbed gases,".

## Chapter 2.3 Class 3 – Flammable liquids

## 2.3.2 Assignment of packing group

2.3.2.5.2 Subparagraph .2, replace "viscous substances" with "viscous liquids".

#### Chapter 2.6 Class 6 – Toxic and infectious substances

#### 2.6.3 Class 6.2 – Infectious substances

#### 2.6.3.2 Classification of infectious substances

#### **2.6.3.2.3** Exemptions

2.6.3.2.3.8 In the paragraph *replace* the words "'Exempt human specimen" or "Exempt animal specimen"" *with* "'EXEMPT HUMAN SPECIMEN" or "EXEMPT ANIMAL SPECIMEN"".

## Chapter 2.7 Class 7 – Radioactive material

#### 2.7.2 Classification

#### 2.7.2.1 General provisions

2.7.2.1.1 Replace "2.7.2.4.2 to 2.7.2.5" with "2.7.2.4 and 2.7.2.5".

#### 2.7.2.3 Determination of other material characteristics

### 2.7.2.3.3 Special form radioactive material

2.7.2.3.3.6.1 In subparagraph .2 after "more than 200 g but" insert "is".

#### 2.7.2.3.5 Fissile material

2.7.2.3.5.5 In subparagraph .5 delete "and".

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

### 2.9.2 Assignment to class 9

 $2.9.2.2 \quad \text{In paragraph 2.9.2.2, under "Life-saving appliances" } \textit{add} \text{ the following UN entries accordingly:}$ 

"2990 LIFE-SAVING APPLIANCES, SELF-INFLATING

3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING containing dangerous goods as equipment"

The entry for 3509, under other substances, is amended to read as follows:

"3509 PACKAGINGS, DISCARDED, EMPTY, UNCLEANED<sup>†</sup>"

and its corresponding footnote remains unchanged.

#### 2.9.4 Lithium batteries

In the Note under subparagraph ".5" replace the words "the procedures listed in (i) to (ix) above" with the words "the procedures listed in .1 to .9 above".

#### PART 4 - PACKING AND TANK PROVISIONS

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

## 4.1.1 General provisions for the packing of dangerous goods in packagings, including IBCs and large packagings

4.1.1.3 Replace the reference "6.5.4" with "6.5.6".

## 4.1.4 List of packing instructions

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

In packing instruction P200, in Table 2 for UN 1058, in the columns for "Test pressure bar" and "Filling ratio", delete the words "Test pressure =  $1.5 \times \text{working pressure}$ " and in the column for "special packing provisions" insert "z".

In packing instruction P208, in the heading of Table 1 replace "name and description" with "proper shipping name"

In packing instruction P802 (2), *replace* the words "(2) Composite packagings: Glass receptacle in steel, aluminium or plywood drum (6PA1, 6PB1 or 6PD1) or in a steel, aluminium or wood box or in wickerwork hamper (6PA2, 6PB2, 6PC or 6PD2) or in solid plastics packaging (6PH2); maximum capacity: 60 L." *with* "(2) Combination packagings

Outer packagings: 1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G or 4H2; maximum net mass: 125 kg

Inner packagings: metal; maximum capacity: 40 L."

In packing instruction P802 (3), *replace* the words "(3) Composite packagings: Glass receptacle in steel, aluminium, plywood or solid plastics drum (6PA1, 6PB1, 6PD1 or 6PH2) or in a steel, aluminium, wood or plywood box (6PA2, 6PB2, 6PC or 6PD2); maximum capacity: 60 L." *with* 

"(3) Composite packagings: Glass receptacle in steel, aluminium or plywood drum (6PA1, 6PB1 or 6PD1) or in a steel, aluminium or wood box or in wickerwork hamper (6PA2, 6PB2, 6PC or 6PD2) or in solid plastics packaging (6PH2); maximum capacity: 60 L."

In packing instruction P908, in the introductory sentence, after the words "This instruction applies to", *insert* the words "damaged or defective lithium ion cells and batteries and damaged or defective lithium metal cells and batteries, including those contained in equipment, of"

The second sentence is amended to read as follows:

"The following packagings are authorized provided the general provisions for 4.1.1 and 4.1.3 are met:"

and in subparagraph (1) replace the words "Each cell or battery or equipment containing" with "Each damaged or defective cell or battery or equipment containing".

#### 4.1.4.2 Packing instructions concerning the use of IBCs

Amend the following packing instructions as indicated:

IBC07 In subparagraph "(1)", replace "and 21N" with ", 21N, 31A, 31B and 31N".

IBC07 In subparagraph "(2)", replace "and 21H2" with ", 21H2, 31H1 and 31H2".

IBC07 In subparagraph "(3)", replace "and 21HZ2" with "21HZ2 and 31HZ1".

IBC08 In subparagraph "(1)", replace "and 21N" with ", 21N, 31A, 31B and 31N".

IBC08 In subparagraph "(2)", replace "and 21H2" with ", 21H2, 31H1 and 31H2".

IBC08 In subparagraph "(3)", replace "and 21HZ2" with "21HZ2 and 31HZ1".

#### 4.1.4.3 Packing instructions concerning use of large packagings

In packing instruction LP904, the existing introductory sentence is *replaced with* "This instruction applies to single damaged or defective batteries for UN 3090, 3091, 3480, and 3481, including those contained in equipment." and in subparagraph .1 *replace* the words "Each battery or equipment containing" *with* "Each damaged or defective cell or battery or equipment containing".

### 4.1.9 Special packing provisions for radioactive material

#### 4.1.9.2 Provisions and controls for transport of LSA material and SCO

4.1.9.2.4.3 In subparagraph .3, in the reference "SCwO-I" the letter "w" is deleted.

#### 4.2.5 Portable tank instructions and special provisions

#### 4.2.5.2 Portable tank instructions

#### 4.2.5.2.6 Portable tank instructions

T23 The first sentence for tank instruction T23, is *replaced with* the following:

"This portable tank instruction applies to self-reactive substances of class 4.1 and organic peroxides of class 5.2".

T50 In the heading of the table, replace "Filling ratio (kg/L)" with "Maximum filling ratio (kg/L)".

#### 4.2.5.3 Portable tank special provisions

TP32 The item "(c)" is renamed as ".3".

### **PART 5 - CONSIGNMENT PROCEDURES**

## Chapter 5.2 Marking and labelling of packages including IBCs

### 5.2.1 Marking of packages including IBCs

5.2.1.1 The second sentence is *replaced with* the following:

"The UN number and the letters "UN" shall be at least 12 mm high, except for packages of 30 litres capacity or less or of 30 kg maximum net mass or less and for cylinders of 60 litres water capacity or less when they shall be at least 6 mm in height and except for packages of 5 litres or 5 kg or less when they shall be of an appropriate size."

## 5.2.2 Labelling of packages including IBCs

#### 5.2.2.2 Provisions for labels

#### 5.2.2.2. Specimen labels

In the label for FISSILE replace "FISIONABLE" with "FISSILE".

## **Chapter 5.3** Placarding and marking of cargo transport units

## 5.3.2 Marking of cargo transport units

#### 5.3.2.1 Display of UN numbers

5.3.2.1.2.1 Replace the word "label" with "placard".

- 5.3.2.2 Elevated temperature substances
- 5.3.2.2 The heading is amended to read as follows:

"Elevated temperature substance mark"

5.3.2.2.1 After "100°C" replace "," with "or".

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## Chapter 5.5 Special provisions

- 5.5.3 Special provisions applicable to packages and cargo transport units containing substances presenting a risk of asphyxiation when used for cooling or conditioning purposes (such as dry ice (UN 1845) or nitrogen, refrigerated liquid (UN 1977) or argon, refrigerated liquid (UN 1951))
- 5.5.3.7 Documentation
- 5.5.3.7.1 Replace the words "containing or have contained" with "containing or having contained".

## 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 6.1** Provisions for the construction and testing of packagings (other than for class 6.2 substances)
- 6.1.4 Provisions for packagings
- 6.1.4.1 Steel drums
- 6.1.4.1.1 In the third paragraph, the reference for "electrolytic chromium/chromium-oxide coated steel." is *replaced with* "electrolytic chromium/chromium oxide-coated steel.".
- **Chapter 6.2** Provisions for the construction and testing of pressure receptacles, aerosol dispensers, small receptacles containing gas (gas cartridges) and fuel cell cartridges containing liquefied flammable gas
- 6.2.2 Provisions for UN pressure receptacles
- 6.2.2.10 Marking of bundles of cylinders
- 6.2.2.10 Amend the heading to read as follows: "Marking of UN bundles of cylinders".
- 6.2.4 Provisions for aerosol dispensers, small receptacles containing gas (gas cartridges) and fuel cell cartridges containing liquefied gas
- 6.2.4 The title is amended to read as follows:
  - "6.2.4 Provisions for aerosol dispensers, small receptacles containing gas (gas cartridges) and fuel cell cartridges containing liquefied flammable gas"

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

- 6.4 The title for Chapter 6.4 is *replaced with* the following:
  - "Provisions for the construction, testing and approval of packages for radioactive material and for the approval of such material".
- 6.4.24 Transitional measures for class 7
- 6.4.24.1 Replace "shall meet these Regulations in full" with "shall meet the provisions of this Code in full".

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

#### 6.5.2 Marking

#### 6.5.2.2 Additional marking

6.5.2.2.4 In the second paragraph, in the second sentence replace "primary marking" with "marking".

## Chapter 6.6 Provisions for the construction and testing of large packagings

### 6.6.3 Marking

### 6.6.3.2 Examples of the marking

6.6.3.3 In the **Note**, replace the words "all IBC's manufactured" with "all large packagings manufactured".

## **Chapter 6.7** Provisions for the design, construction, inspection and testing of portable tanks and multiple-element gas containers (MEGCs)

- 6.7.5 Provisions for the design, construction, inspection and testing of multiple-element gas containers (MEGCs) intended for the transport of non-refrigerated gases
- 6.7.5.2 General design and construction provisions
- 6.7.5.2.4.1 In subparagraph .1, in the reference, *replace* "see ISO 11114-1:2000 and ISO 11114-2:2012" *with* "see ISO 11114-1:2012 and ISO 11114-2:2013".

## **Chapter 6.9** Provisions for the design, construction, inspection and testing of bulk containers

- 6.9.4 Provisions for the design, construction and approval of BK1 or BK2 bulk containers other than freight containers
- 6.9.4.6 In the **Note**, the word "should" is *replaced with* "shall".

#### PART 7 – PROVISIONS CONCERNING TRANSPORT OPERATIONS

## Chapter 7.1 General stowage provisions

### 7.1.4 Special stowage provisions

#### 7.1.4.5 Stowage of goods of class 7

7.1.4.5.3 In subparagraph .3 replace the references "7.1.4.5.6.2 and 7.1.4.5.6.3" with "7.1.4.5.5.2 and 7.1.4.5.5.3".

### Chapter 7.2 General segregation provisions

#### 7.2.8 Segregation codes

7.2.8 In the description of SG1 after the words "subsidiary risk" insert the word "label".

#### **Annex**

#### Segregation flow chart

Under Examples, in example 4.1, replace "PG II" with "PG III".

## Chapter 7.5 Stowage and segregation on ro-ro ships

Under the heading, in the "Note", the reference for "MSC/Circ.1/Circ.1440" is replaced with "MSC.1/Circ.1440".

## Chapter 7.9 Exemptions, approvals and certificates

7.9.3 Replace the contact information for Belgium with the following:

Antwerp office

Federale Overheidsdienst Mobiliteit en Vervoer

Directoraat-generaal Maritiem Vervoer

Scheepvaartcontrole

Posthoflei 3

B-2000 Antwerpen (Berchem)

**BELGIUM** 

Telephone: +32 3 229 0030 Fax: +32 3 229 0031

Email: HAZMAT.MAR@mobilit.fgov.be

Ostend office

Federale Overheidsdienst Mobiliteit en Vervoer

Directoraat-generaal Maritiem Vervoer

Scheepvaartcontrole

Natiënkaai 5 B-8400 Oostende

BELGIUM

Telephone: +32 59 56 1450 Fax: +32 59 56 1474

Email: HAZMAT.MAR@mobilit.fgov.be

7.9.3 Replace the contract information for France with the following:

Ministère de l'écologie, du développement durable et de l'énergie MEDDE – DGPR – Mission Transport de Matières Dangereuses (MTMD)

Tour Séquoia

92055 Paris La Défense Cedex

**FRANCE** 

Telephone: +33 1 40 81 14 96 Fax: +33 1 40 81 10 65

Email: pierre.dufour@developpement-durable.gouv.fr

Organizations authorized for packagings, large packagings and intermediate bulk containers (IBCs) (\*)

1 Association des Contrôleurs Indépendants (ACI)

22, rue de l'Est

92100 Boulogne-Billancourt

**FRANCE** 

2 APAVE

191, rue de Vaugirard 75738 Paris Cedex 15

**FRANCE** 

3 Association pour la Sécurité des Appareils à Pression (ASAP)

Continental Square - BP 16757

95727 Roissy-Charles de Gaulle Cedex

**FRANCE** 

4 Bureau de Vérifications Techniques (BVT)

ZAC de la Cerisaie - 31, rue de Montjean

94266 Fresnes Cedex

**FRANCE** 

5 Bureau Veritas

67-71, rue du Château

92200 Neuilly-sur-Seine

**FRANCE** 

6 Centre Français de l'Emballage Agréé (CeFEA)

5, rue Janssen

75019 Paris

**FRANCE** 

7 Laboratoire d'Études et de Recherches des Emballages

Métalliques (LEREM)

Marches de l'Oise - 100, rue Louis-Blanc

60160 Montataire

**FRANCE** 

8 Laboratoire National de métrologie et d'Essais (LNE)

1, rue Gaston-Boissier

75724 Paris Cedex 15

**FRANCE** 

Organizations authorized for pressure receptacles

1 Association des Contrôleurs Indépendants (ACI)

(For contact details see above)

2 APAVE

(For contact details see above)

3 Association pour la Sécurité des Appareils à Pression (ASAP)

(For contact details see above)

4 Bureau Veritas

(For contact details see above)

Organizations authorized for tanks and multiple-element gas containers (MEGCs)\*

1 Association des Contrôleurs Indépendants (ACI)

(For contact details see above)

2 APAVE

(For contact details see above)

3 Bureau Veritas

(For contact details see above)

7.9.3 In the contact information for Germany *replace* "Ref-G24@bmvbs.bund.de" *with* "Ref-G24@bmvi.bund.de".

<sup>\*</sup> Contact competent authority for further details of areas of authorization.

7.9.3 Replace the contact information for Republic of Korea with the following:

Marine Industry and Technology Division Marine Safety Bureau Ministry of Ocean and Fisheries (MOF) Government Complex Sejong, 5-Dong, 94, Dasom 2-Ro, Sejong-City,

339-012, Republic of Korea TEL: +82 44 200 5836 FAX: +82 44 200 5849

## Volume 2

## PART 3 - DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND EXCEPTIONS

## Chapter 3.2 Dangerous Goods List

In the Dangerous Goods List, amend the following entries as follows:

UN No.	Amendment
0190	In column (17), <i>replace</i> "See glossary of terms in appendix B" <i>with</i> "Substance or article. Division and compatibility group as classified by the competent authority".
0219	In column (16b), replace "SG27" with "SG31".
0224	In column (17), replace "See glossary of terms in appendix B" with "Sensitive substance used in detonators, which becomes extremely sensitive if the wetting agents are lost. This substance, when containing less alcohol, water or phlegmatizer than specified, shall not be transported, unless specifically authorized by the competent authority".
0285	In column (15), replace "S-Y" with "S-X".
0449	In column (2), replace "TORPEDOES, LIQUID-FUELLED" with "TORPEDOES, LIQUID FUELLED".
0450	In column (2) $replace$ "TORPEDOES, LIQUID-FUELLED" $with$ "TORPEDOES, LIQUID FUELLED".
1183	In column (16b), delete "SG7".
1242	In column (16b), delete "SG7".
1295	In column (16b), delete "SG7".
1333	In column (16b), delete "SG15".
1439	In column (16b), replace "SG35" with "SG75".
1507	In column (15), between "F-A, S-Q" add ",".
1512	In column (16a), replace "Category" with "-".
1826 (Packing group I and II)	In column (15), replace "S-Q" with "S-B".
1942	In column (2), delete word "total" before combustible.
2008 (Packing group I only)	In column (16a), insert "H1" and in column (16b) insert "SG26".
2280	In column (7b), for HEXAMETHYLENEDIAMINE, MOLTEN, replace "E1" with "E0".
2653	In column (16a), insert "SW1".
2749	In column (15), replace "S-D" with "S-D".
2845	In column (9), replace "PP31" with "-".
2956	In column (6), delete "132".

UN No.	Amendment
2965	In column (16b), delete "SG7".
2988	In column (16b), delete "SG7".
3066 (Packing group II only)	In column (14), replace "TP2 TP27 TP28" with "TP2 TP28".
3066 (Packing group III only)	In column (14), replace "TP1 TP27 TP29" with "TP1 TP29" and in column (6) insert "367".
3082	In column (14), replace "TP2" with "TP1".
3089 (Packing group III only)	In column (16a), replace "Category B" with "Category A".
3105	In column (16b), one of the two entries for "SG36" is replaced with "SG35". Applicable to the electronic version only
3152	In column (17), after the words "This entry" include the word "also".
3251	In column (16a), insert "SW2".
3316 (Packing group II and III)	In column (15), replace "S-P" with "S-P".
3332	In column (6), insert "317".  Applicable to the electronic version only
3332	In column (6), replace "326" with "317".
3432	In column (17), after the words "This entry" include the word "also".
3490	In column (16b), delete "SG7".
3491	In column (16b), delete "SG7".
3508	In column (15), replace "-" with "F-A, S-I".
3509	In column (2), <i>replace</i> the name <i>with</i> "PACKAGINGS, DISCARDED, EMPTY, UNCLEANED".
3523	In column (3), replace "-" with "2.3" and in column (4), replace "-" with "2.1".

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

SP 317	Amena to read as follows:	

""Fissile-excepted" applies only to those fissile materials and packages containing fissile material which are excepted in accordance with 2.7.2.3.5".

SP 373	In the last sentence	rantaca "Nuclear	radiation datactor	e" with "Noutron	radiation detectors"
SP 3/3	in the last sentence	<i>repiace</i> "Nuclear	radiation detector	s" <i>with</i> "Neutron	i radiation detecto

SP 943 *Insert* the word "label" after "subsidiary risk".

SP 958 After the words "This entry" *include* the word "also".

SP 970 After the words "(including machinery or equipment powered by such engines)" insert ",".

## Chapter 3.4 Dangerous goods packed in limited quantities

## 3.4.1 General

3.4.1.2.7 In subparagraph ".7" the reference for "7.3.3.16" is *replaced with* "7.3.3.15".

#### **APPENDICES**

### **Appendix A** List of generic and N.O.S. proper shipping names

In the table for "Class 2" in the column for Proper shipping name, the new entries for ADSORBED GAS are relocated according to the sequence of the subsidiary risks.

#### **INDEX**

In the alphabetical index, amend the following entries as indicated:

In the entry for CROTONALDEHYDE, insert a "P" in the column for MP.

 $\label{eq:replace} Replace~``([3R-(3R,5aS,6S,8aS,9R,10R,12S,12aR^{**})]-DECAHYDRO-10-METHOXY-3,6,9-TRIMETHYL-3,12-EPOXY-12H-PYRANO[4,3-j]-1,2-BENZODIOXEPIN)~(concentration~$\leq~100\%)"~with~``([3R-(3R,5aS,6S,8aS,9R,10R,12S,12aR^{**})]-Decahydro-10-methoxy-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin)~(concentration~$\leq~100\%),~see".$ 

The two entries (UN 3226) for "2-Diazo-1-naphthol-4-sulphonic acid ester" and "2-Diazo-1-naphthol-5-sulphonic acid ester" are deleted.

The entry for "Mercurous chloride, see" (UN 3077), is deleted.

The entry for "PACKAGING DISCARTED, EMPTY, UNCLEANED" is replaced with "PACKAGINGS, DISCARDED, EMPTY, UNCLEANED"

Replace "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)" with "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE (including paint thinning or reducing compound)".

Replace "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)" with "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound)".

In the entry for "FISHMEAL, STABILIZED", UN 2216, in the column for Class, replace "4.2" with "9".

Add the following entry:

Substance, material or article		Class	UN No.
2-Diazo-1-naphtholsulphonic acid ester mixture Type D (concentration < 100%),	-	4.1	3226
see			