

# International Maritime Solid Bulk Cargoes Code (IMSBC Code)

INCORPORATING AMENDMENT 04-17

## and supplement

2018 Edition

## Errata and Corrigenda November 2018

These errata and corrigenda make editorial corrections to the International Maritime Solid Bulk Cargoes Code (IMSBC Code) (Amendment 04-17 and supplement), adopted by MSC.268(85), MSC.393(92), MSC.354(92) and MSC.426(98).

On page iii (Contents), *replace* MSC.1/Circ.1395/Rev.2 (12 June 2015) with MSC.1/Circ.1395/Rev.3 (16 June 2017) (as amended).

### Resolution MSC.426(98)

In the second paragraph, *replace* “under chapters VI and VII” with “under chapter VI”.

### Section 1

#### *General provisions*

#### **1.1 Introductory note**

**1.1.1** *Replace* “by-laws” with “bye-laws”.

#### **1.2 Cargoes listed in this Code**

**1.2.2** *Add* the word “whether” between “consider” and “to consult the authorities”.

#### **1.3 Cargoes not listed in this Code**

#### **1.3.3 Format for the properties of cargoes not listed in this Code and conditions of the carriage\***

*Replace* “TENTATIVE BULK CARGO SHIPPING NAME” with “Tentative bulk cargo shipping name”

In the footnote, *delete* “, according to subsection 1.3.3 of the IMSBC Code”.

#### **1.6 Conventions**

### Chapter VI

Carriage of cargoes and oil fuels

### Part B

Special provisions for solid bulk cargoes

### Regulation 7

*Loading, unloading and stowage of solid bulk cargoes*<sup>‡</sup>

In paragraph 3, *replace* footnote symbol “<sup>†</sup>” with “<sup>‡</sup>”.

## Chapter VII

### Carriage of dangerous goods\*

#### Part A-1

#### Carriage of dangerous goods in solid form in bulk

### Regulation 7-1

#### *Application*<sup>†</sup>

In the footnote <sup>‡</sup>, delete “published by the Organization”.

#### 1.7 Definitions

*Replace:*

“GHS means the fourth revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals, published by the United Nations as document ST/SG/AC.10/30/Rev.4.”

*with:*

“GHS means the seventh revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals, published by the United Nations as document ST/SG/AC.10/30/Rev.7.”.

*Replace:*

“Manual of Tests and Criteria means the fifth revised edition of the United Nations publication entitled “Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria” (ST/SG/AC.10/11/Rev.5/Amendment 2).”

*with:*

“Manual of Tests and Criteria means the sixth revised edition of the United Nations publication entitled “Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria” (ST/SG/AC.10/11/Rev.6/Amendment 1).”.

#### Section 3

#### *Safety of personnel and ship*

#### 3.1 General requirements

In the footnote <sup>\*</sup>, delete “IMO sales number II210E”.

#### Section 4

#### *Assessment of acceptability of consignments for safe shipment*

#### 4.3 Certificates of test

4.3.3 In footnote <sup>\*</sup>, add “(see the supplement of this publication)”.

#### 4.6 Sampling procedures for concentrate stockpiles

4.6.5 Delete the verb “is” before “placed in a sealed container”.

#### 4.7 Examples of standardized sampling procedures, for information

*Replace* “ISO 3082:2009” *with* “ISO 3082:2017”.

*Replace:*

“ASTMD 2234-99 Standard Practice for Collection of a Gross Sample of Coal”

*with:*

“ASTM D2234/D2234M-17 Standard Practice for Collection of a Gross Sample of Coal”.

*Replace:*

“BS 1017:1989 Methods of sampling coal and coke  
BS 1017 British Standard Part 1: 1989 methods of sampling of coal  
BS 1017 British Standard Part 2: 1994 methods of sampling of coal”

*with:*

“BS 1017-1:1989 Sampling of coal and coke. Methods for sampling of coal  
BS 1017-2:1994 Sampling of coal and coke. Methods for sampling of coke”.

## **4.8 Documentation required on board the ship carrying dangerous goods**

**4.8.3** *Delete “(or II-2/54.3)” and capitalize the first letter of the word “document”.*

## Section 5

### *Trimming procedures*

## **5.4 Special provisions for non-cohesive bulk cargoes**

**5.4.2** *Replace “Methods of determining the angle of repose are given in section 6” with “Methods for determining the angle of repose are given in section 6.”.*

## Section 9

### *Materials possessing chemical hazards*

## **9.2 Hazard classification**

### **9.2.3 Materials hazardous only in bulk (MHB)**

#### **9.2.3.4 Solids that evolve into flammable gas when wet: MHB (WF)**

*Replace title with “Solids that evolve flammable gas when wet: MHB (WF)”.*

#### **9.2.3.7 Corrosive solids: MHB (CR)**

**9.2.3.7.3** *Delete the “s” in the word “Systems” from “Unified Numbering Systems”.*

## **9.3 Stowage and segregation requirements**

### **9.3.1 General requirements**

**9.3.1.1** *Replace “subsidiary risk” with “subsidiary hazard”.*

### **9.3.2 Special requirements**

#### **9.3.2.3 Materials of class 7**

**9.3.2.3.1** *Replace “an area of 300 cm<sup>2</sup>” with “an area of 300 cm<sup>2</sup>”.*

## Section 12

### *Stowage factor conversion tables*

## **12.2 Cubic feet per long ton (ft<sup>3</sup>/ton) (2,240 lb, 1,016 kg) to cubic metres per metric tonne (m<sup>3</sup>/t) (2,204 lb, 1,000 kg)**

*In the table, in column 6, replace “0.1673” with “0.1676”.*

## Section 13

### *References to related information and recommendations*

#### **13.2 Reference list\***

##### **13.2.12 Entering enclosed spaces**

In 3.2.4, replace "1050(27)" with "A.1050(27)".

## **Appendix 1**

### *Individual schedules of solid bulk cargoes*

#### **ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS UN 3170**

In the "**Description**", decapitalize various different waste materials listed to read as follows:

**"Aluminium dross  
Aluminium salt slags  
Aluminium skimmings  
Spent cathodes  
Spent potliner"**.

#### **AMMONIUM NITRATE BASED FERTILIZER UN 2067** *(continued)*

##### **Loading**

*Change bullet points for numbers.*

##### **Discharge**

*Place last sentence "Ammonium nitrate based fertilizers are hygroscopic and may cake in overhangs, impairing safety during discharge" after "Pumping of fuel oil in spaces adjacent to the cargo spaces for this cargo, other than the engine-room, shall not be allowed."*

#### **AMMONIUM NITRATE BASED FERTILIZER UN 2071** *(continued)*

##### **Loading**

*Change bullet points for numbers.*

#### **AMMONIUM NITRATE BASED FERTILIZER (non-hazardous)** *(continued)*

##### **Loading**

*Change bullet points for numbers.*

#### **AMORPHOUS SODIUM SILICATE LUMPS**

##### **Description**

*Replace "Colorless" with "Colourless".*

#### **BARIUM NITRATE UN 1446** *(concluded)*

##### **Emergency procedures**

##### **Special emergency equipment to be carried**

*Delete the word "and" before "headgear".*

## **BROWN COAL BRIQUETTES** *(appendix, continued)*

### **Carriage**

In paragraph 5.2, *replace* “2000 parts per million (ppm)” and “1000 ppm”, *with* “2,000 parts per million (ppm)” and “1,000 ppm”, respectively.

## **COAL**

### **Description**

*Move* the paragraph beginning with “Coal shall be classified” and ending with “in the blend are Group B only” to be under the Bulk Cargo Shipping Name.

### **Appendix**

#### **Special precautions**

##### **2 Self-heating coals**

*Replace* “When the shipper has indicated” *with* “When the shipper has informed”.

## **DIRECT REDUCED IRON (A) Briquettes, hot-moulded**

### **Description**

*Replace* “than 5000 kg/m<sup>3</sup>” *with* “than 5,000 kg/m<sup>3</sup>”.

In the column “**Size**”, *add* “:” after “Fines and small particles”.

### **Carriage**

In the third paragraph, *replace* “The temperature of the cargo” *with* “The cargo temperature”.

## **DIRECT REDUCED IRON (B) Lumps, pellets, cold-moulded briquettes**

### **Description**

*Replace* “than 5000 kg/m<sup>3</sup>” *with* “than 5,000 kg/m<sup>3</sup>”.

In the column “**Size**”, *add* “:” after “Fines and small particles”.

### **Loading**

At end of third paragraph, *replace*, “in regards to” *with* “with regard to”.

*Move* the last paragraph “When the stowage factor.... pile of the cargo” to before the eighth paragraph “The cargo temperature.... does not exceed 65°C.”.

## **DIRECT REDUCED IRON (C) (By-product fines)**

### **Description**

*Replace* “than 5000 kg/m<sup>3</sup>” *with* “than 5,000 kg/m<sup>3</sup>”.

### **Loading**

Position the last paragraph “As the density of the cargo.... by a pile of the cargo.” after the fifth paragraph “Trim in accordance ... of this Code.”.

## **FERROSILICON UN 1408** *(appendix, continued)*

### **Gases released from ferrosilicon impurities when water is added**

#### **(i) Arsine**

#### **Symptoms**

In paragraph 2, *replace* “discoloration” *with* “discolouration”.

## **FERROSILICON** *(appendix, concluded)*

### **Gases released from ferrosilicon impurities when water is added**

#### **(i) Arsine**

#### **Symptoms**

In paragraph 2, *replace* “discoloration” *with* “discolouration”.

## **FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS UN 2793 in a form liable to self-heating**

In the first paragraph, *replace* “should” *with* “shall”.

## **FLUORSPAR**

### **Hazard**

At the end of this section, *add* “Harmful and irritating by dust inhalation.”.

## **FLY ASH, DRY**

### **Description**

*Replace* “Fly ash is the light” *with* “Fly ash, dry is the light”.

### **Clean-up**

*Replace* “discharge is fly ash.” *with* “discharge is FLY ASH, DRY.”

## **GRAIN SCREENING PELLETS**

### **Characteristics**

In the column “**Stowage factor (m<sup>3</sup>/t)**”, *replace* the existing figure “2.08” *with* “2.09”.

## **GRANULATED NICKEL MATTE (LESS THAN 2% MOISTURE CONTENT)**

### **Stowage and Segregation**

*Replace* “Separated from foodstuffs.” *with* ““Separated from” foodstuffs.”

## **GYPSUM GRANULATED**

### **Description**

*Replace* “by product” *with* “by-product”.

## **IRON AND STEEL SLAG AND ITS MIXTURE**

### **Description**

In the second paragraph, *replace* “if necessary the cargo is transported” *with* “if necessary. The cargo is transported”.

## **IRON OXIDE TECHNICAL**

### **Characteristics**

In the column "**Size**", *replace* the existing figure "1,000" with the words "Fine particles".

## **LEAD NITRATE UN 1469 (concluded)**

### **Emergency procedures**

#### **Special emergency equipment to be carried**

*Delete* the word "boots".

## **LIME (UNSLAKED) (concluded)**

### **Emergency procedures**

*Change* "Do not use water" to bold type.

## **MANGANESE COMPONENT FERROALLOY SLAG**

### **Description**

*Replace* "brownish-red or grayish-black" with "brownish-red or greyish-black".

## **MANGANESE ORE FINES (concluded)**

### **Weather precautions**

*Replace* "When a cargo is carried in a ship other than a specially constructed or fitted cargo ship" with "When a cargo is carried in a ship other than a ship".

In subparagraph .3, *replace* "otherwise in this schedule" with "otherwise in this individual schedule".

## **METAL SULPHIDE CONCENTRATES**

### **Hazard**

Position the sentence "Some metal sulphide concentrates may have acute and long term health effects." before the sentence "This cargo may ... (TML).".

### **Emergency procedures**

#### **Emergency action in the event of fire**

*Delete* "if available".

### **Mineral Concentrates**

*Replace* the existing Bulk Cargo Shipping Name "**MINERAL CONCENTRATES**" with "**Mineral Concentrates**".

## **OLIVINE SAND** *(concluded)*

### **Carriage**

*Replace:*

“The appearance of the surface of this cargo shall be checked regularly during voyage. If free water above the cargo or fluid state of the cargo is observed during voyage, the master shall take appropriate actions to prevent cargo shifting and potential capsizing of the ship, and give consideration to seeking emergency entry into a place of refuge.”

*with:*

“The appearance of the surface of this cargo shall be checked regularly during the voyage. If free water above the cargo or fluid state of the cargo is observed during the voyage, the master shall take appropriate actions to prevent cargo shifting and potential capsizing of the ship, and give consideration to seeking emergency entry into a place of refuge.”

## **PEAT MOSS** *(concluded)*

### **Clean-up**

*Replace “No special precautions” with “No special requirements”.*

### **Emergency procedures**

#### **Emergency action in the event of fire**

*Add “if fitted” after “installation”.*

## **PYROPHYLLITE**

### **Characteristics**

*In the column “Size”, replace “Lump to fines” with “Lumps to fines”.*

## **SAND, HEAVY MINERAL**

### **Hazard**

*Replace “See sections 7 and 8 of the Code” with “See sections 7 and 8 of this Code”.*

## **SCALE GENERATED FROM THE IRON AND STEEL MAKING PROCESS**

### **Description**

*In the second paragraph, replace “Colour is gray, ash brown” with “Colour is grey, ash brown”*

*In the third paragraph, replace “It consists of main chemical” with “The main chemical”.*

## **SILICOMANGANESE (low carbon)**

### **Precautions**

*Replace the full text with the following:*

“The manufacturer or the shipper shall provide the master with a certificate stating that, after manufacture, the cargo was stored under cover, but exposed to open air for not less than three days prior to shipment.

Smoking shall not be allowed on deck and in the cargo spaces and “NO SMOKING” signs shall be displayed on deck whenever this cargo is on board. Electrical fittings and cables shall be in good condition and properly safeguarded against short circuits and sparking. Where a bulkhead is required to be suitable for segregation purposes, cable and conduit penetrations of the decks and bulkheads shall be sealed against the passage of gas and vapour. Whenever practicable, ventilation systems for the living quarters shall be shut down or screened and air



condition systems shall be placed on recirculation during loading and discharge of this cargo, in order to minimize the entry of dust into living quarters or other interior spaces of the ship. Precautions shall be taken to minimize the extent to which dust of this cargo may come in contact with moving parts of deck machinery and external navigation aids such as navigation lights.

Entry of personnel into enclosed spaces shall not be permitted until tests have been carried out and it has been established that the oxygen content has been restored to a normal level throughout the space and that no toxic gas is present, unless adequate ventilation and air circulation throughout the free space above the material has been effected.\*

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\* Refer to Revised recommendations for entering enclosed spaces aboard ships (resolution A.1050(27)).

## **SPODUMENE (UPGRADED)**

### **Weather precautions**

In subparagraph .3, *add "individual" before "schedule"*.

## **SUGAR**

### **Characteristics**

In the column "**Size**", *replace "Granules, up to 3 mm" with "Granules up to 3 mm"*.

## **SUGARCANE BIOMASS PELLETS**

### **Characteristics**

In the column "**Size**", *replace "diameter" with "Diameter"*.

## **SULPHUR (formed, solid)**

In the first paragraph, *replace "above" with "below"*.

## **SYNTHETIC CALCIUM FLUORIDE**

### **Weather precautions**

In subparagraph .3, *add "individual" between "otherwise in this" and "schedule"*.

## **SYNTHETIC SILICON DIOXIDE**

### **Weather precautions**

In subparagraph .3 *add "individual" between "otherwise in this" and "schedule"*.

## **WOOD PELLETS CONTAINING ADDITIVES AND/OR BINDERS**

### **Hazard**

*Replace the second paragraph with the following:*

*"Swelling if exposed to moisture. Wood pellets may ferment over time if moisture content is over 15%, leading to generation of asphyxiating and flammable gases which may cause spontaneous combustion."*

## WOOD PRODUCTS – GENERAL

Replace the existing Bulk Cargo Shipping Name “WOOD PRODUCTS – GENERAL” with “Wood Products –General”.

### Precautions

Add “An oxygen meter shall be worn and activated by all crew when entering cargo and adjacent enclosed spaces.” as the last sentence of this section.

## WOOD TORREFIED

### Characteristics

In the column “Size”, add “.” at the end of the text.

## ZINC ASHES UN 1435 (concluded)

### Emergency procedures

#### Emergency action in the event of fire

Replace “if fitted” with “if available”.

## ZIRCON KYANITE CONCENTRATE

### Weather precautions

Replace “When this cargo is carried in a ship other than a specially constructed or fitted cargo ship” with “When a cargo is carried in a ship other than a ship”.

In subparagraph .3, add “individual” between “otherwise in this” and “schedule”.

## Appendix 2

### *Laboratory test procedures, associated apparatus and standards*

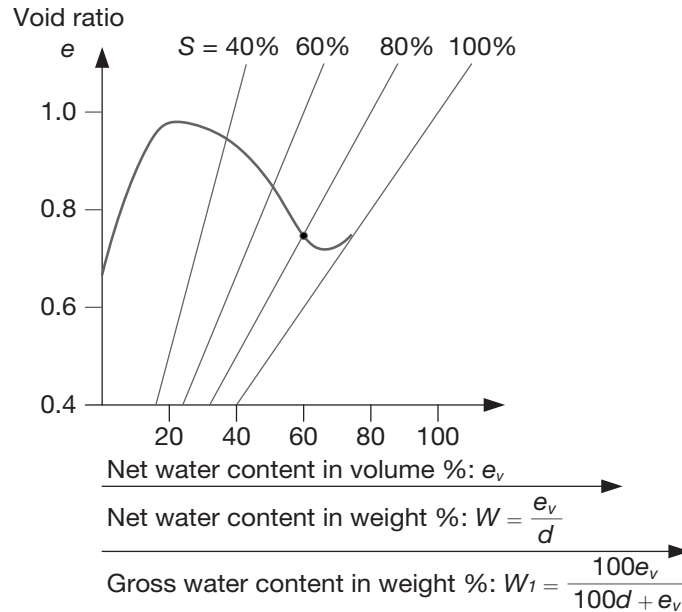
#### 1.2 Penetration test procedure

In “Figure 1.2.2.5 – Bit holder”, replace “2-ø3.” with “2-ø 3.3”.

## 1.4 Modified Proctor/Fagerberg test procedure for Iron Ore Fines

### 1.4.4 Procedure

Replace existing figure 1.4.3 on page 415 in Spanish with the English version of the figure.



### 1.5.2 Normative references

Delete the third sentence "For undated references, the latest edition of the referenced document (including any amendments) applies."

At the third bullet, replace "ISO 3319-2:2013" with "ISO 3310-2:2013".

#### 1.5.5.1.2 Standard sieves

Replace "ISO 3319-2:2013" with "ISO 3310-2:2013".

## Appendix 3

### *Properties of solid bulk cargoes*

After AMMONIUM NITRATE BASED FERTILIZERS, add (TYPE A, TYPE B and NON-HAZARDOUS)

## Appendix 4

### *Index*

In the **Material** column:

Amend "ALUMINIUM DROSS" to read "Aluminium dross".

Amend "ALUMINIUM SALT SLAGS" to read "Aluminium salt slags".

Amend "ALUMINIUM SKIMMINGS" to read "Aluminium skimmings".

Add "Antimony ore residue C see ANTIMONY ORE AND RESIDUE" after the entry "ANTIMONY ORE AND RESIDUE"

In the line “COPPER CONCENTRATE”, in the column **References**, add “see Mineral Concentrates schedule”  
Add “SILICOMANGANESE (carbo-thermic) C” before the entry SILICOMANGANESE (low carbon)

In the line “SPENT CATHODES” in the column **Material**, amend the entry to read “Spent cathodes”.

In the line “SPENT POTLINER” in the column **Material**, amend the entry to read “Spent potliner”.

In the line “Steel swarf” in the column **References**, add “UN 2793” to read “see FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS UN 2793”.

In the line “Swarf” in the column **References**, add “UN 2793” to read “see FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS UN 2793”.

In the line “ZINC CONCENTRATE”, in the column **References**, add “see Mineral Concentrates schedule”.

In the line “Zinc, dross, residue or skimmings”, in the column **References**, amend the entry to read “see ZINC ASHES, UN 1435”.

## Appendix 5

### *Bulk Cargo Shipping Names in three languages (English, French and Spanish)*

In the Spanish column, *replace* all instances of “No ONU” with “UN”.

*Replace* the existing entries with the following corresponding entries:

English	French	Spanish
Aluminium dross	Laitier d'aluminium	Residuos de aluminio
Aluminium skimmings	Crasse d'aluminium	Espuma de aluminio
BORAX, ANHYDROUS, refined	BORAX ANHYDRE raffiné	BÓRAX ANHIDRO, refinado
CALCIUM NITRATE UN 1454	NITRATE DE CALCIUM UN 1454	NITRATO CÁLCICO, UN 1454
CHARCOAL	CHARBON DE BOIS	CARBÓN VEGETAL
COPPER SLAG	SCORIES DE CUIVRE	ESCORIA DE COBRE
COPRA (dry) UN 1363	COPRAH (sec) UN 1363	COPRA (seca), UN 1363
Hominy chop	Hominy chop	Sémola de maíz triturada
Iron skulls	Fer en forme de cranes dit «iron skulls»	Hierro en forma de cráneos conocido como «iron skulls»
IRON SMELTING BY-PRODUCTS	SOUS-PRODUITS DE LA FUSION DU FER	PRODUCTOS DERIVADOS DE LA FUNDICIÓN DEL HIERRO
MONOAMMONIUM PHOSPHATE (M.A.P.), MINERAL ENRICHED COATING	MONOPHOSPHATE D'AMMONIUM, REVÊTEMENT ENRICHÉ EN MINÉRAUX	FOSFATO MONOAMÓNICO, REVESTIMIENTO ENRIQUECIDO CON MINERALES
MONOCALCIUMPHOSPHATE (MCP)	PHOSPHATE MONOCALCIQUE	FOSFATO MONOCÁLCICO
OLIVINE GRANULAR AND GRAVEL AGGREGATE PRODUCTS	AGRÉGATS DE GRAINS ET DE GRAVIERS D'OLIVINE	PRODUCTOS AGREGADOS GRANULARES Y DE GRAVA DE OLIVINO
Pollard pellets	Recoupette en boulettes	Moyuelo, pellets de
QUARTZ	QUARTZ	CUARZO
SALT CAKE	PAIN DE SEL	SAL, TORTA DE

English	French	Spanish
SAND, MINERAL CONCENTRATE, RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I) UN 2912	MATIÈRES RADIOACTIVES DE FAIBLE ACTIVITÉ SPÉCIFIQUE (LSA-I), SABLES, CONCENTRÉS DE MINÉRAUX UN 2912	ARENAS DE CONCENTRADOS DE MINERALES, MATERIAL RADIATIVO DE BAJA ACTIVIDAD ESPECÍFICA (BAE-I), UN 2912
Separation of iron	Résidus du processus de séparation	Hierro de separación
SOLIDIFIED FUELS RECYCLED FROM PAPER AND PLASTICS	COMBUSTIBLES SOLIDIFIÉS RECYCLÉS À PARTIR DE PAPIER ET DE PLASTIQUE	COMBUSTIBLES SOLIDIFICADOS RECICLADOS DE PAPELES Y PLÁSTICOS
Spent cathodes	Cathodes usées	Cátodos agotados
Spent potliner	Revêtement usé des cuves	Cubas electrolíticas agotadas
SPODUMENE (UPGRADED)	SPODUMÈNE (ENRICHI)	ESPODUMENO (ENRIQUECIDO)
SYNTHETIC SILICON DIOXIDE	SILICE DE SYNTHÈSE	DIÓXIDO DE SILICIO SINTÉTICO
WOOD PELLETS CONTAINING ADDITIVES AND/OR BINDERS	GRANULÉS (PELLETS) DE BOIS CONTENANT DES ADDITIFS ET/OU LIANTS	PELLETS DE MADERA QUE CONTIENEN ADITIVOS Y/O AGLUTINANTES
Zinc, dross, residue or skimmings	Zinc, crasses, résidus, laitier	Cinc (desechos de, residuos de o espuma de)

Delete second entry of “COPPER CONCENTRATE    CONCENTRÉ DE CUIVRE    COBRE, CONCENTRADO DE” (beneath “Copper ore concentrate” – the first entry rightly appears beneath “COLEMANITE”).

Add new entry:

Silica sand    Sable siliceux    Arena de sílice

Amend the existing entry SILICOMANGANESE to read “SILICOMANGANESE (low carbon) SILICOMANGANÈSE (à faible teneur en carbone)    SILICOMANGANESO (bajo contenido de carbono)” and reposition it beneath the existing entry for SILICOMANGANESE (carbo-thermic) etc.

The two entries of soyabean are misplaced in the table and should appear after SOLIDIFIED FUELS RECYCLED FROM PAPER AND PLASTICS.

On page 469 (Contents), *replace* MSC.1/Circ.1395/Rev.2 (12 June 2015) with MSC.1/Circ.1395/Rev.3 (16 June 2017) (as amended).

## Supplement

### **MSC.1/Circ.1395/Rev.2**

On page 555, *replace* MSC.1/Circ.1395/Rev.2 *with* MSC.1/Circ.1395/Rev.3 (as amended).

*Replace* pages 557 to 559 with the following text:

### **“MSC.1/Circ.1395/Rev.3**

16 June 2017

## Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective

1 The Maritime Safety Committee, at its sixty-fourth session (5 to 9 December 1994), agreed that there was a need to provide Administrations with guidelines regarding the provisions of SOLAS regulation II-2/10 concerning exemptions from the requirements for fire-extinguishing systems.

2 Consequently, the Committee approved MSC/Circ.671 whereby it agreed to:

- .1 a list of solid bulk cargoes, for which a fixed gas fire-extinguishing system may be exempted (table 1) and recommended Member States to take into account the information contained in table 1 when granting exemptions under the provisions of SOLAS regulation II-2/10.7.1.4; and
- .2 a list of solid bulk cargoes for which a fixed gas fire-extinguishing system is ineffective (table 2), and recommended that cargo spaces in a ship engaged in the carriage of cargoes listed in table 2 be provided with a fire-extinguishing system which provides equivalent protection. The Committee also agreed that Administrations should take account of the provisions of SOLAS regulation II-2/19.3.1 when determining suitable requirements for an equivalent fire-extinguishing system.

3 The Maritime Safety Committee, at its seventy-ninth session (1 to 10 December 2004), reviewed the above-mentioned tables and approved MSC.1/Circ.1146. The Committee decided that the annexed tables should be periodically reviewed and invited Member States to provide the Organization, when granting exemptions to ships for the carriage of cargoes not included in table 1, with data on the non-combustibility or fire-risk properties of such cargoes. Member States were also requested to provide the Organization, when equivalent fire-extinguishing systems are required for the agreed carriage of cargoes not included in table 2, with data on the inefficiency of fixed gas fire-extinguishing systems for such cargoes.

4 The Maritime Safety Committee, at its eighty-ninth session (11 to 20 May 2011), noting the mandatory status of the IMSBC Code, reviewed the aforementioned lists of solid bulk cargoes to align certain names in the lists with those in the recent version of the IMDG Code, and approved MSC.1/Circ.1395 on *Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective*, superseding MSC.1/Circ.1146. The Maritime Safety Committee, at its ninety-second session (12 to 21 June 2013), approved a revision to MSC.1/Circ.1395.

5 The Maritime Safety Committee, at its ninety-fifth session (3 to 12 June 2015), considering the proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its first session, approved a revision to MSC.1/Circ.1395/Rev.1.

6 The Maritime Safety Committee, at its ninety-eighth session (7 to 16 June 2017), considering the proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its third session, approved a revision to MSC.1/Circ.1395/Rev.2, as set out in tables 1 and 2 of the annex.

7 The purpose of this circular is to provide guidance to Administrations. It should not, however, be considered as precluding Administrations from their right to grant exemptions for cargoes not included in table 1 or to impose any conditions when granting such exemptions under the provisions of SOLAS regulation II-2/10.7.1.4.

8 This circular supersedes MSC/Circ.1395/Rev.2.

## Annex

**Table 1**

*List of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted*

**1 Cargoes including, but not limited to, those listed in SOLAS regulation II-2/10:**

Ore  
Coal (COAL and BROWN COAL BRIQUETTES)  
Grain  
Unseasoned timber

**2 Cargoes listed in the International Maritime Solid Bulk Cargoes (IMSBC) Code, which are not combustible or constitute a low fire risk, as follows:**

**.1 all cargoes not categorized into Group B in the IMSBC Code; and**

**.2 the following cargoes categorized into Group B in the IMSBC Code:**

ALUMINA HYDRATE  
ALUMINIUM SMELTING BY-PRODUCTS UN 3170  
(both the names ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS are in use as proper shipping names)  
ALUMINIUM FERROSILICON POWDER UN 1395  
ALUMINIUM SILICON POWDER, UNCOATED UN 1398  
AMORPHOUS SODIUM SILICATE LUMPS  
BORIC ACID  
CALCINED PYRITES (Pyritic ash)  
CLINKER ASH  
COAL TAR PITCH  
DIRECT REDUCED IRON (A) Briquettes, hot moulded  
FERROPHOSPHORUS (including briquettes)  
FERROSILICON UN 1408, with 30% or more but less than 90% silicon (including briquettes)  
FERROSILICON, with at least 25% but less than 30% silicon, or 90% or more silicon  
FLUORSPAR (calcium fluoride)  
GRANULATED NICKEL MATTE (LESS THAN 2% MOISTURE CONTENT)  
LIME (UNSLAKED)  
LOGS  
MAGNESIA (UNSLAKED)  
MONOCALCIUMPHOSPHATE (MCP)  
MONOAMMONIUM PHOSPHATE (M.A.P.), MINERAL ENRICHED COATING  
PEAT MOSS

PETROLEUM COKE\*

PITCH PRILL

PULP WOOD

RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I),  
non-fissile or fissile – excepted UN 2912

RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECT(S)  
(SCO-I), non-fissile or fissile – excepted UN 2913

ROUNDWOOD

SAND, MINERAL CONCENTRATE, RADIOACTIVE MATERIAL,  
LOW SPECIFIC ACTIVITY (LSA-I) UN 2912

SAW LOGS

SILICOMANGANESE (low carbon)

SULPHUR UN 1350

TIMBER

VANADIUM ORE

WOODCHIPS, with moisture content of 15% or more

WOOD PELLETS (NOT CONTAINING ANY ADDITIVES AND/OR BINDERS)

ZINC ASHES UN 1435

- .3 Cargoes assigned to the following generic Group B shipping schedules when they do not exhibit any self-heating, flammability, or water-reactive flammability hazards in accordance with the MHB tests and classification criteria contained in the Code:

METAL SULPHIDE CONCENTRATES

METAL SULPHIDE CONCENTRATES, CORROSIVE UN 1759

**3 Solid bulk cargoes which are not listed in the IMSBC Code, provided that:**

- .1 they are assessed in accordance with section 1.3 of the Code;
- .2 they do not present hazards of Group B as defined in the Code; and
- .3 a certificate has been provided by the competent authority of the port of loading to the master in accordance with 1.3.2 of the Code.

**Table 2**

*List of solid bulk cargoes for which a fixed gas fire-extinguishing system is ineffective and for which a fire-extinguishing system giving equivalent protection shall be available*

The following cargoes categorized into Group B of the IMSBC Code:

ALUMINIUM NITRATE UN 1438

AMMONIUM NITRATE UN 1942 (with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance)

AMMONIUM NITRATE BASED FERTILIZER UN 2067

AMMONIUM NITRATE BASED FERTILIZER UN 2071

BARIUM NITRATE UN 1446

CALCIUM NITRATE UN 1454

LEAD NITRATE UN 1469

MAGNESIUM NITRATE UN 1474

POTASSIUM NITRATE UN 1486

SODIUM NITRATE UN 1498

SODIUM NITRATE AND POTASSIUM NITRATE, MIXTURE UN 1499

\* When loaded and transported under the provisions of the IMSBC Code.”.



Add circular MSC.1/Circ.1396 after MSC.1/Circ.1264.  
Tables of Contents (pages iii and 469) to be updated accordingly.

## **“MSC.1/Circ.1396**

16 June 2011

# Amendment to the Recommendations on the safe use of pesticides in ships applicable to the fumigation of cargo holds (MSC.1/Circ.1264)

1 The Maritime Safety Committee, at its eighty-fourth session (7 to 16 May 2008), approved the Recommendations on the safe use of pesticides in ships applicable to the fumigation of cargo holds (MSC.1/Circ.1264), which apply to the carriage of solid bulk cargoes, including grain, in pursuance of the requirement of SOLAS regulation VI/4.

2 The Maritime Safety Committee, at its eighty-ninth session (11 to 20 May 2011), approved the following amendment to section 5 (Safety Precautions – General) of the aforementioned Recommendations, as prepared by the Sub-Committee on Dangerous Goods, Solid Cargoes and Containers (DSC) at its fifteenth session:

### **“5.3 Fire risk**

5.3.1 When Phosphine generating formulations are used to fumigate, any collected residue may ignite.”

3 Member Governments are invited to bring the above amendment to the Recommendations to the attention of competent authorities, seafarers, fumigators, fumigant and pesticide manufacturers and others concerned.”

## **MSC.1/Circ.1454/Rev.1**

On page 599, beneath the word “Annex”, add title of Annex “*Guidelines for developing and approving procedures for sampling, testing and controlling the moisture content for solid bulk cargoes which may liquefy*”.

## **BC.1/Circ.74**

Contact names and addresses of the offices of designated national competent authorities responsible for the safe carriage of grain and solid bulk cargoes

## **IRELAND**

Replace “Dublin 21” with “Dublin 2”.

## ITALY

*Replace* the entries for Italy in entirety as follows:

Comando Generale del Corpo delle Capitanerie di Porto  
Lt. (I.T.C.G.) Francesco Foti  
Ufficio II – Merci Pericolose  
Viale Dell'Arte, 16  
Roma  
00144  
Italy  
Telephone: +39 06 5908 4267  
                  +39 06 5908 4652  
Telefax: +39 06 5908 4630  
Email: cgcp@pec.mit.gov.it  
          segreteria.reparto6@mit.gov.it  
Website: www.guardiacostiera.gov.it

## MEXICO

*Replace* the entries for Mexico in entirety as follows:

Capitán de Navío Rafael Gómez Conejo  
Director de Inspección y Certificación Marítima  
Dirección General Adjunta de Protección y Certificación Marítima  
Unidad de Planeación y Coordinación Estratégica  
Secretaría de Marina  
Av. Heroica Escuela Naval Militar No. 669  
Col. Presidentes Ejidales, 2da. Sección  
C.P. 04470, Ciudad de México  
México  
Telephone: +52 (55) 5624-6500 ext. 6210  
Email: unicapam.digaprocer@semar.gob.mx  
          digecapam.digaprocer@semar.gob.mx  
  
Lic. Saturnino Hermida Mayoral  
Director General de Marina Mercante  
Coordinación General de Puertos y Marina Mercante  
Secretaría de Comunicaciones y Transportes  
Boulevard Adolfo López Mateos No. 1990, piso 5  
Colonia Tlacopac, Del. Álvaro Obregón  
C.P. 01049, Ciudad de México  
México  
Telephone: +52 (55) 52653220  
Email: shermida@sct.gob.mx

## PHILIPPINES

*Replace* the entries for Philippines in entirety as follows:

Commander  
Maritime Safety Services Office  
Philippine Coast Guard  
139, 25th Street, Port Area  
Manila  
Philippines

Telephone: +632 5278481

The Administrator  
Maritime Industry Authority  
Parkview Plaza  
984 Taft Avenue corner Kalaw Street  
Manila  
Philippines

Telephone: +632 5239078  
Email: oadm@marina.gov.ph

Atty. Jay Daniel R. Santiago  
General Manager  
Philippine Ports Authority  
6th Floor, PPA Corporate Building  
Bonifacio Drive  
South Harbor, Port Area  
Manila 1018  
Philippines

Telephone: +632 5274853  
Email: ogm@ppa.com.ph

Mr. Hector E. Miolo  
Assistant General Manager for Operations  
Philippine Ports Authority  
6th Floor, PPA Corporate Building  
Bonifacio Drive  
South Harbor, Port Area  
Manila 1018  
Philippines

Telephone: +632 5276432  
Email: hemiolo@ppa.com.ph

## RUSSIAN FEDERATION

*Amend* the current entry as follows:

Department of State Policy for Maritime and River Transport  
Ministry of Transport of the Russian Federation  
Rozhdestvenka Street, 1, bldg. 1  
Moscow 109012  
Russian Federation

Telephone: +7 499 495 05 50  
Email: rusma@mintrans.ru

## UKRAINE

*Delete* all numbers "0" in the international code. It should read: "+38".