

# GUIDELINES

## ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE WITH ANNEXES

ND No. 2-030101-009-E

### RULE CHANGE NOTICE

ENTERS INTO FORCE:

01.01.2024



**St. Petersburg**  
**2023**

## **GUIDELINES ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE WITH ANNEXES**

The present Rule Change Notice to the Guidelines on Technical Supervision of Ships in Service with Annexes (hereinafter — RCN) has been approved in accordance with the established approval procedure and contains information on amendments and additions, except for editorial amendments. RCN amendments come into force on 1 January 2024.

## REVISION HISTORY

### GUIDELINES ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
Part I, <a href="#">Para 4.2.3</a>	Ships Arrangement of fulfillment of the requests for survey	Requirements for the term of submitting the Ship Status Notice have been revised. The term has been extended from 24 hours to 48 hours	
Part II, <a href="#">Para 2.2.4.2.2</a>	Ships Extinguishing media Foam concentrates	Restriction for use of fire-extinguishing media containing perfluorooctane sulfonic acid (PFOS) has been introduced. Note to para 2.2.4.2.2 indicating the amendments of MSC.1/Circ.1312/Corr.1 to MSC.1/Circ.1312 has been updated	IMO Resolution MSC.532(107)
Part II, <a href="#">Para 2.2.4.2.4.4</a>	Ships Extinguishing media Foam concentrates	Restriction for use of fire-extinguishing media containing perfluorooctane sulfonic acid (PFOS) has been introduced	IMO Resolution MSC.532(107)
Part III, <a href="#">Para 2.1.13.5.7</a>	Mobile Offshore Drilling Units (MODU) Survey of ships in service and technical supervision of ships' repair, conversion or modernization. Use of materials containing asbestos	Restrictive requirement for the use of materials containing asbestos has been introduced.	IMO Resolutions MSC.543(107), MSC.544(107) and MSC.545(107), MSC.1/Circ.1671 and MSC.1/Circ.1672

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
Part III, <a href="#">Paras 2.2.6.4, 2.2.6.7 and 2.2.6.12</a>	Ships Survey of ships in compliance with the International Convention for Prevention of Pollution from Ships, 1973/78 Engines, electronic bunker delivery notes	Updated version of the IMO Circular MEPC.1/Circ.795/Rev.8 is taken into account, which includes unified interpretations to regulations 13.2.2 (identical replacement engines), 18.5 and 18.6 (electronic bunker delivery notes) of Annex VI to MARPOL 73/78	
Part III, <a href="#">Para 2.2.6.13.7</a>	Ships Shaft/Engine Power Limitation system and use of a power reserve the Guidelines on the Shaft/Engine Power Limitation system and use of a power reserve	The reference to the applicable requirements for issue of the Guidelines on the Shaft/Engine Power Limitation system and use of a power reserve has been corrected considering the use of the power reserve	IMO resolution MEPC.375(80)
Part III, <a href="#">Para 2.2.6.13.8</a>	Ships Shaft/Engine Power Limitation system and use of a power reserve the Onboard Management Manual (OMM)	The procedure for accounting for the use of power reserves (keeping records using the established format, reporting IMO according to the established form) has been amended	IMO resolution MEPC.375(80)
Part III, <a href="#">Para 4.1.1.2.10</a>	Ships Survey of life-saving appliances	The requirements for extending the servicing term of inflatable life rafts up to 18 months have been specified	

**ANNEXES TO THE GUIDELINES ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE, 2023**

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
Annex 25, <a href="#">Table 2.2.1</a>	Ships Survey of ships carrying dangerous goods in packaged form and in bulk	In Table 2.2.1 the list of cargo class has been amended	IMO Resolution MSC.500(105)
Annex 25, <a href="#">Para 2.2.6</a>	Ships Survey of ships carrying dangerous goods in packaged form and in bulk	Para 2.2.6 has been supplemented by the MHB cargo class	IMO Resolution MSC.500(105)
Annex 25, <a href="#">Appendix 1</a>	Ships Survey of ships carrying dangerous goods in packaged form and in bulk	In Tables 1 and 2 the list of the MHB cargo classes has been amended	IMO Resolution MSC.500(105), IMO Circular MSC.1/Circ.1395/Rev.5
Annex 25, <a href="#">Appendix 2</a>	Ships Survey of ships carrying dangerous goods in packaged form and in bulk	The list of the 4.2, 5.1, 8, 9 and the MHB cargo classes has been amended	IMO Resolution MSC.500(105), IMO Circular MSC.1/Circ.1395/Rev.5
Annex 25, <a href="#">Appendix 3</a>	Ships Survey of ships carrying dangerous goods in packaged form and in bulk	In Table 2 the list of the MHB cargo classes has been amended	IMO Resolution MSC.500(105), IMO Circular MSC.1/Circ.1395/Rev.5
<a href="#">Annex 48</a>	Mobile Offshore Drilling Units (MODU) Survey of ships in service and technical supervision of ships' repair, conversion or modernization. Use of materials containing asbestos	Instructions on the actions are introduced when working parts, materials and products, containing asbestos are detected on MODU	IMO Resolutions MSC.543(107), MSC.544(107) and MSC.545(107), MSC.1/Circ.1671 and MSC.1/Circ.1672

## **GUIDELINES ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE**

### **PART I. GENERAL PROVISIONS**

#### **4 PROCESS OF CARRYING OUT REQUESTS FOR SURVEY OF SHIPS**

##### **4.2 FULFILLING REQUESTS FOR SURVEY OF RS-REGISTERED SHIPS IN SERVICE AND INCLUDING THOSE UNDER REPAIR BY THE REGISTER BRANCH OFFICES**

**Para 4.2.3** is replaced by the following text:

**"4.2.3** Operative information on the survey performed shall be sent to the RS Branch Office for in-service supervision by the Ship Status Notice within 2448 h after the survey of the ship."

### **PART II. CARRYING OUT CLASSIFICATION SURVEYS OF SHIPS**

#### **2 INSTRUCTIONS AND RECOMMENDATIONS ON CARRYING OUT CLASSIFICATION SURVEYS OF SHIPS AND REFRIGERATING PLANTS**

##### **2.2 ANNUAL SURVEY**

**Para 2.2.4.2.2** is replaced by the following text:

**"2.2.4.2.2** Recommendations on survey of foam concentrates.

At survey of foam concentrates onboard, it shall be ascertained that:

a foam concentrate used on the ship in the foam fire extinguishing system, in portable foam applicators shall be of approved type;

foam concentrate storage time does not exceed three years;

if three years have expired from the date of manufacture on the date of survey the valid document issued by a recognized laboratory confirming foam concentrate fitness for use shall be presented, and after that such confirmation shall be performed every year.

The confirming document for foam concentrate shall be issued based on the tests conducted according to the procedures set forth in the following IMO circulars:

MSC.1/Circ.1312 – Revised Guidelines for the Performance and Testing Criteria, and Surveys of Foam Concentrates for Fixed Fire-Extinguishing Systems;

MSC/Circ.798 – Guidelines for Performance and Testing Criteria and Surveys of Medium-Expansion Concentrates for Fire-Extinguishing Systems;

MSC/Circ.670 – Guidelines for the Performance and Testing Criteria and Surveys of High-Expansion Foam Concentrates for Fixed Fire-Extinguishing Systems.

The valid confirming document for foam concentrate shall include the following:

sedimentation;

pH value;

expansion ratio;

drainage time;

volumic mass.

On ships constructed (keels laid or at a similar stage of construction) on or after 1 January 2026, the use of foam concentrates containing perfluorooctanesulfonic acid (PFOS) is prohibited.

On ships constructed before 1 January 2026, the use and storage of foam concentrates containing PFOS is prohibited after the date of the first survey<sup>1</sup> performed on and after 1 January 2026. Prohibited foaming agents shall be removed from ships and delivered to onshore reception facilities.

Note. Circular MSC.1/Circ.1312 dated 10 June, 2009 considering amendments introduced by MSC.1/Circ.1312/Corr.1 superseded previous circulars MSC/Circ.582 and MSC/Circ.582/Corr.1, and MSC/Circ.799."

**Para 2.2.4.2.4.4** is replaced by the following text:

**"2.2.4.2.4.4** Recharge of extinguishers is carried out in accordance with the manufacturer's manual. The manual for recharging extinguishers shall be supplied by manufacturers and be available for use on board. For recharge shall be used only the extinguishing media approved for a specific extinguisher.

On or after January 1, 2026, the use of foam concentrates containing PFOS to recharge foam fire extinguishers is prohibited.

On ships built before 1 January 2026, foam fire extinguishers whose foaming agents contain PFOS must be recharged using foam agents of a type approved by the Register no later than the date of the first survey (refer to 2.2.4.2.2) carried out on 1 January 2026 and after this date."

### **PART III. SURVEY OF SHIPS IN COMPLIANCE WITH INTERNATIONAL CONVENTIONS, CODES, RESOLUTIONS AND RULES FOR THE EQUIPMENT OF SEA-GOING SHIPS**

## **2 SURVEY OF SHIPS IN ACCORDANCE WITH THE INTERNATIONAL CONVENTIONS, CODES AND RESOLUTIONS OF IMO**

### **2.1 SURVEY OF SHIPS IN ACCORDANCE WITH SOLAS-74 AS AMENDED**

**Para 2.1.13.5.7** is supplemented by the following text:

"Thus, a restrictive requirement for the use of materials containing asbestos is introduced. The procedure is set out in IMO Circular MSC.1/Circ.1671 (refer to Annex 48)."

### **2.2 SURVEY OF SHIPS IN COMPLIANCE WITH THE INTERNATIONAL CONVENTION FOR PREVENTION OF POLLUTION FROM SHIPS, 1973/78**

**Paras 2.2.6.4, 2.2.6.7 and 2.2.6.12.** The reference to IMO circular "MEPC.1/Circ.795/Rev.7" is replaced by the following text: "MEPC.1/Circ.795/Rev.8".

**Paras 2.2.6.13.7 and 2.2.6.13.8** are replaced by the following text:

**"2.2.6.13.7** Installation of the overridable Shaft/Engine Power Limitation system shall be confirmed by the Flag State MA or recognized organization of the Flag State MA duly authorized by it in accordance with the Guidelines on the Shaft/Engine Power Limitation system and use of a power reserve (IMO resolution MEPC.335(76) as amended by IMO

<sup>1</sup> Refer to IMO Circular MSC.1/Circ.1290 for a unified interpretation of the term "first survey".

resolution MEPC.375(80)) considering IACS Recommendation 172 (EEXI Implementation Guidelines).

**2.2.6.13.8** The overridable Shaft/Engine Power Limitation systems applied onboard shall be described in the Onboard Management Manual (OMM) subject to review by MA or the recognized organization by its authorization after a survey verifying the ship's attained EEXI.

Any use of a power reserve shall be recorded in the OMM, be kept on board and include the information specified in IMO resolution MEPC.375(80).

The ship shall notify its Flag MA or RO responsible for issuing the relevant International Energy Efficiency Certificate and the competent authority of the relevant port of destination.

On an annual basis by 30 June every year, the Flag MA shall report to the IMO Secretariat uses of a power reserve over a 12-month period from 1 January to 31 December for the preceding calendar year with the information recorded, using the format as set out in the appendix to IMO resolution MEPC.375(80)."

## **4 SOME INSTRUCTIONS AND RECOMMENDATIONS ON CARRYING OUT SURVEYS AND ISSUING DOCUMENTS**

### **4.1 ADDITIONAL INSTRUCTIONS ON CARRYING OUT SURVEYS OF EQUIPMENT**

**Para 4.1.1.2.10.** The fourth paragraph is replaced by the following text:

"for the ships which are not covered by the requirements of SOLAS-74 as amended, ~~the transfer of the equipment servicing term can be provided~~ extended for the period of ~~less than up to~~ 18 months upon the RHO decision in response to a written request of the shipowner."



## ANNEXES TO THE GUIDELINES ON TECHNICAL SUPERVISION OF SHIPS IN SERVICE

## ANNEX 25

### 25. SURVEY OF SHIPS CARRYING DANGEROUS GOODS IN PACKAGED FORM AND IN BULK

#### 3.3 REQUIREMENTS FOR DAMAGE TRIM AND STABILITY CHARACTERISTICS

Table 2.2.1 is replaced by the following text:

"Table 2.2.1

Bulk cargo		Requirements of 2.2.1																						
Class	Name of cargo <sup>1</sup>	UN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
4.1	Sulphur (lump or coarse grained powder)	1350	–	+	–	+	–	–	+	+	+	+	–	+	–	+	+	+	–	+	–	+	–	+
4.2	Seed cake, oil cake, seed expellers	1386 2217	+	+	–	+	+ <sup>2</sup>	+ <sup>2</sup>	+ <sup>2</sup>	+	+ <sup>2</sup>	+	–	+	–	+	+	+	+	+	+	+	–	+
	Copra, dry	1363	+	+	–	+	–	–	–	+	–	–	–	+	–	+	+	+	–	+	–	+	–	–
	Iron oxide, iron sponge	1376	+	+	–	+	–	–	+	+	+	–	+	+	+	+	+	+	+	+	–	+	–	+
	Ferrous metal (borings, shavings, turnings, or cuttings)	2793	+	+	–	+	–	–	–	+	–	–	–	+	–	+	+	+	–	+	+	+	–	–
	Metal Sulphide Concentrates, Self-Heating	3190	±	±	=	±	=	=	=	=	=	=	=	±	=	±	±	±	±	±	±	±	=	±
	4.3	Aluminium silicon	1398	–	+	–	+	+	+	+	+	+	–	–	+	–	+	+	+	+	–	–	+	+
	Aluminium ferrosilicon	1395	–	+	–	+	+	+	+	+	+	–	–	+	–	+	+	+	+	–	–	+	+	+
	Aluminium processing by-products	3170	–	+	–	+	+	+	+	+	+	–	–	+	–	+	+	+	+	–	–	+	+	+
	Ferrosilicon	1408	–	+	–	+	+	+	+	+	+	–	–	+	–	+	+	+	+	–	–	+	+	+
	Zinc ashes, dross, residues, skimmings	1435	–	+	–	+	+	–	+	+	+	–	+	+	–	+	+	+	+	–	–	+	+	+
5.1	Aluminium nitrate and other nitrates <sup>3</sup>	1438	–	–	+	–	–	–	–	+	–	–	+	+	+	–	+	–	–	–	–	–	–	–
	Ammonium nitrate based fertilizer, UN 2067	2067	–	–	+	+	–	–	–	+	+	–	–	+	+	–	+	+	+	–	–	–	+	–
	Ammonium nitrate	1942	–	–	+	+	–	–	+	+	–	–	+	+	–	+	+	+	–	–	–	+	–	+
	Lead nitrate	1469	–	–	+	–	–	–	–	+	+	–	+	+	+	+	+	–	–	–	–	+	–	–
	Barium nitrate	1446																						
7	Radioactive material, LSA-1, SCO-1	2912 2913	–	+	+	–	–	–	–	+	+	–	+	+	–	+	+	–	–	+	–	–	+	–
9	Ammonium nitrate based fertilizer, UN 2071	2071	–	–	+	+	–	–	–	+	+	–	–	+	+	–	+	+	+	–	–	–	+	–

	Bulk cargo	Requirements of 2.2.1																						
Class	Name of cargo <sup>1</sup>	UN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Castor beans (castor meal, castor pomace and castor flakes) <sup>4</sup>	2969	+	+	-	-	-	-	-	+	+	-	+	+	+	+	+	-	-	+	-	-	-	-
	Fish meal and fish scrap	2216	+	+	-	+	-		-	-	+	-	-	-	+	-	+	+	-	-	+	+	-	-
MHB	Aluminum Hydrate		=	=	±	=	=	=	=	=	=	=	±	±	±	=	±	=	=	=	=	=	=	=
	Aluminum by- products		=	=	±	=	=	=	=	±	=	=	±	±	±	=	±	=	=	=	=	=	=	=
	Fertilizers based on ammonium nitrate (MHB)		=	=	±	±	=	=	=	=	=	=	±	±	=	=	±	±	=	±	±	±	=	=
	Wood pellets		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-	-	-
	Sawdust		+	+	-	+	-	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-	-	-
	Charcoal		+	+	-	+	-	-	-	+	-	-	-	-	-	-	-	+	+	-	+	+	-	-
	Woodchips		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-	-	-
	Direct reduced iron, DRI <sup>5</sup>		+	+	-	+	-	-	-	+	+	-	-	-	-	-	+	+	-	+	+	-	+	+
	Direct reduced iron (briquettes hot moulded)		-	+	-	+	-	-	-	+	+	-	-	-	-	-	+	+	-	+	+	-	+	+
	Seed cakes and other residues of processed oily vegetables		+	+	-	+	+ <sup>2</sup>	+ <sup>2</sup>	+ <sup>2</sup>	+	+ <sup>2</sup>	+	-	+	-	+	+	+	+	+	+	+	-	+
	Lime (unslaked)		-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
	Metal sulphide concentrates		+	+	-	-	-	-	-	-	+	-	-	-	+	-	-	+	-	+	+	-	-	-
	Tankage		+	+	-	+	-	-	-	+	+	-	+	+	+	-	-	+	-	-	+	+	-	-
	Petroleum coke (calcined or uncalcined)		-	+	-	-	-	-	-	+	-	-	+	+	+	+	-	+	-	-	+	-	-	-
	Magnesia (unslaked)		-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
	Leach residue containing lead		-	+	-	-	-	-	-	-	-	-	-	+	+	-	+	+	-	-	-	-	-	-
	Calcined pyrites		-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
	Pitch prill, prilled coal tar, pencil pitch		+	+	-	+	-	-	-	+	+	-	+	+	+	+	-	+	+	-	+	-	+	-
	Fluorspar		-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
	Vanadium ore		-	+	-	-	-	-	-	+	+	-	-	+	-	-	-	+	-	-	+	-	-	-
	Sodium silicate (lumpy)		=	±	=	±	±	=	±	±	±	=	=	±	=	±	±	±	±	±	=	=	±	±
	Superphosphate (triple granulated)		=	±	=	=	=	=	=	=	=	=	=	±	±	=	±	±	=	=	=	=	=	=
	Silicomanganese		-	+	-	+	+	-	+	+	+	-	-	-	+	-	+	+	+	+	-	-	+	+
	Peat moss		-	+	-	+	-	-	-	+	+	-	-	-	-	-	-	+	-	-	+	-	-	-
	Coal		-	+	-	+	-	-	+	+	+	-	-	+	-	-	+	+	-	+	+	+	+	-
	Ammonium nitrate based fertilizer MHB		-	+	-	+	-	-	+	+	+	-	-	+	-	+	+	-	+	+	+	+	-	+
	Ferrosilicon		-	+	-	+	+	+	+	+	+	-	-	+	-	-	+	+	+	+	-	-	+	+
	Ferrophosphorus		-	+	-	+	+	-	+	+	+	-	-	+	-	-	+	+	+	+	-	-	+	+

Bulk cargo		Requirements of 2.2.1																						
Class	Name of cargo <sup>1</sup>	UN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	The proper shipping names of the materials are set out in Appendix 2.																							
2	Used for seedcake containing solvent extractions.																							
3	"Other nitrates" shall comprise the following substances: calcium nitrate, UN 1454, magnesium nitrate, UN 1474, potassium nitrate, UN 1486, sodium nitrate, Chilean natural nitrate, UN 1498, sodium nitrate and potassium nitrate, mixture, Chilean natural potassic nitrate, UN 1499.																							
4	Castor meal, castor pomace and castor flakes shall not be carried in bulk.																							
5	DRI – Direct reduced iron																							

Para 2.2.6 is replaced by the following text:

**"2.2.6** Ammonium nitrate fertilizers (UN Nos. 2067—, 2071 and MHB) shall not to be stowed immediately adjacent to any tank, double bottom or pipe containing heated fuel oil unless there are means to monitor and control the temperature so that it does not exceed 50 °C."

Appendix 1

### LIST OF SOLID BULK CARGOES WHICH ARE NON-COMBUSTIBLE, OR CONSTITUTE A LOW FIRE RISK, OR FOR WHICH A FIXED GAS FIRE-EXTINGUISHING SYSTEM IS NOT EFFECTIVE

Tables 1 and 2 are replaced by the following text:

"Table 1

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

Cargo name
1 Cargoes including, but not limited to, those listed in regulation II-2/10.7.1.3 of SOLAS-74
Ore
Coal (COAL and BROWN COAL BRIQUETTES )
Grain
Unseasoned timber
2 Cargoes listed in IMSBC Code, which are not combustible or constitute a low fire risk, as follows:
.1 all cargoes not categorized into Group B in IMSB C Code;
.2 the following cargoes categorized into Group B in 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 name)
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, with more than 30% but less than 90% silicon, UN 1408
FERROSILICON, with 25% to 30% silicon, or 90% or more silicon
FLUE DUST, CONTAINING LEAD AND ZINC
FLUORSPAR (calcium fluoride)
GRANULATED NICKEL MATTE (LESS THAN 2% MOISTURE CONTENT)
LEACH RESIDUE CONTAINING LEAD
LIME (UNSLAKED)
LOGS
MAGNESIA (UNSLAKED)

MATTE CONTAINING COPPER AND LEAD
MONOCALCIUMPHOSPHATE (MCP)
MONOAMMONIUM PHOSPHATE (M.A.P.), MINERAL ENRICHED COATING
PEAT MOSS
PETROLEUM COKE <sup>1</sup>
PITCH PRILL
PULP WOOD
PYRITES, CALCINED (Pyritic ash)
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY MATERIAL (LSA-1), UN 2912 (non-fissile or fissile – excepted)
RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECT(S) (SCO-I or SCO-II), UN 2913 (non-fissile or fissile – excepted)
ROUNDWOOD
SAND, MINERAL CONCENTRATE, RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I) UN 2912
SAW LOGS
SILICOMANGANESE (low carbon)
SULPHUR, UN 1350 (crushed lump and coarse grained)
SUPERPHOSPHATE (triple, granular)
TIMBER
VANADIUM ORE
WOODCHIPS, with moisture content of 15 % or more
WOOD PELLETS (NOT CONTAINING ANY ADDITIVES AND/OR BINDERS)
ZINC ASHES, UN 1435
ZINC OXIDE ENRICHED FLUE DUST
.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.
<sup>1</sup> When loaded and transported under the provisions of IMSBC Code.

**Table 2 of Appendix1** remains unamended and is supplemented by the following Note:

"N o t e . This Appendix is based on the provisions of IMO Circular MSC.1/Circ.1395/Rev.5."

**Appendix 2** is replaced by the following text:

*"Appendix 2*

### LIST OF BULK MATERIALS POSSESSING CHEMICAL HAZARDS CATEGORIZED INTO GROUP B OR CLASSIFIED AS MHB

(the list is non-exhaustive, for more information – refer to the IMSBC Code as amended)

Proper shipping name	Class (subsidiary)	UN No.
Alumina Hydrate	<del>BOH</del> MHB	–
Aluminium smelting/remelting by-products, processed	<del>BOH</del> MHB	–
Aluminium processing by-products	4.3	3170
Aluminium ferrosilicon powder	4.3	1395
Aluminium nitrate	5.1	1438
Aluminium silicon powder, uncoated	4.3	1398
Ammonium nitrate	5.1	1942

Proper shipping name	Class (subsidiary)	UN No.
Ammonium nitrate based fertilizer (containing not less than 90 % ammonium nitrate with not more than 0.2 % total combustible/organic material calculated as carbon and with added matter, which is inorganic and inert towards ammonium nitrate)	5.1	2067
Ammonium nitrate based fertilizer-UN-2067 (containing not more than 70 % ammonium nitrate and not more than 0.4 % total combustible organic material calculated as carbon or with not more than 45 % ammonium nitrate and unrestricted combustible material)	9	2071
Ammonium nitrate fertilizers UN-2071 (containing not more than 70 % ammonium nitrate and not more than 0.4 % total combustible organic material calculated as carbon or not more than 45 % ammonium nitrate and unrestricted combustible material; and both the ammonium nitrate content is equal to or greater than 20 % and the chloride content is equal to or greater than 2 %)	MHB	=
Amorphous sodium silicate lumps	<del>BOH</del> MHB	–
Barium nitrate	5.1 (6.1)	1446
Boric acid	MHB	=
<del>BROWN COAL BRIQUETTES</del> Brown coal briquettes	<del>BOH</del> MHB	–
Calcined pyrites (Pyritic ash, Fly ash)	<del>BOH</del> MHB	–
Calcium nitrate	5.1	1454
Castor beans	9	2969
Charcoal	<del>BOH</del> MHB	–
Clinker ash, wet	<del>BOH</del> MHB	–
Coal	<del>BOH</del> MHB	–
Coal tar pitch	<del>BOH</del> MHB	–
Copra	4.2	1363
Direct reduced iron (A), Briquettes, hot-moulded	<del>BOH</del> MHB	–
Direct reduced iron (B), Lumps, pellets, cold-moulded briquettes	MHB	–
Direct reduced iron (C), By-product fines	MHB	–
Direct reduced iron (D), By-product fines with moisture content of at least 2 %	MHB	–
Electric arc furnace dust, pelletized	MHB	–
Ferrophosphorus (including briquettes)	<del>BOH</del> MHB	–
Ferrosilicon, with 30 % or more but less than 90 % silicon	4.3 (6.1)	1408
Ferrosilicon, with 25 to 30 % silicon or with 90 % or more silicon (including briquettes)	MHB	–
Ferrous metal borings, shavings, turnings, or cuttings, in form liable to self-heating.	4.2	2793
Iron swarf. Steel swarf		
Fish meal, stabilized. Fish scrap, stabilized. Anti-oxidant treated. Moisture content greater than 5 % but not exceeding 12 %, by mass. Fat content not more than 15 % by mass	9	2216
Flue dust, containing lead and zinc	MHB	–
Flue dust, enriched by zink oxide	MHB	–
Fluorspar (calcium fluoride)	<del>BOH</del> MHB	–
Granulated nickel matte (less than 2% moisture content)	<del>BOH</del> MHB	–
Iron oxide, spent. Iron sponge, spent	4.2	1376
Leach residue containing lead	<del>BOH</del> MHB	–
Lead nitrate	5.1 (6.1)	1469
Lime (unslaked) (Calcium oxide, quicklime, dolomitic quicklime)	<del>BOH</del> MHB	–
LINTED COTTON SEED	<del>BOH</del> MHB	–
Magnesia (unslaked) (Lightburned magnesia, calcined magnesite, caustic calcined magnesite)	<del>BOH</del> MHB	–
Magnesium nitrate	5.1	1474
Matte containing copper and lead	MHB	–
Metal sulphide concentrates	<del>BOH</del> MHB	–
Metal sulphide concentrates corrosive	8	1759
Metal sulphide concentrates self-heating	4.2	3190
Monoammonium phosphate (M.A.P), mineral enriched coating	MHB	–

Proper shipping name	Class (subsidiary)	UN No.
Monocalciumphosphate (MCP)	MHB	—
Peat moss	MHB	—
Petroleum coke, calcined or uncalcined	MHB	—
Pitch prill, prilled coal tar, pencil pitch	MHB	—
Potassium nitrate (Saltpetre)	5.1	1486
Radioactive material, low specific activity (LSA-1), N.O.S.	7	2912
Radioactive material, surface contaminated objects (SCO-1)	7	2913
Sand, mineral concentrate, radioactive material, low specific activity (LSA-I)	7	2912
Sawdust	<del>BOH</del> MHB	—
Seed cake, containing vegetable oil, mechanically expelled seeds, containing more than 10 % of oil or more than 20 % of oil and moisture combined. (Meal, oily, oil cake, seed expellers, oily)	4.2	1386
Seed cake, containing vegetable oil, solvent extractions and expelled seeds, containing not mote than 10 % of oil and, when the amount of moisture is higher than 10%, not more than 20 % of ofl and moisture combined (meal, oily, oil cake, seed expellers, oily)	4.2	1386
Seed cake, containing vegetable oil, solvent extractions containing not more than 1,5 % of oil and 11 % of moisture (meal, oily, oil cake, seed expellers, oily)	4.2	2217
Seed cakes and other residues of processed oily vegetables	MHB	—
Silicomanganese	MHB	—
Sodium nitrate (Chile saltpetre, Chilean natural nitrate)	5.1	1498
Sodium nitrate and potassium nitrate, mixture (Chilean natural potassic nitrat)	5.1	1499
<b>SOLIDIFIED FUELS RECYCLED FROM PAPER AND PLASTICS</b> Solidified fuels recycled from paper and plastics	MHB	—
Sugarcane biomass pellets	MHB	—
Sulphur, lump and coarse grained powder	4.1	1350
Superphosphate (triple, granular)	MHB	—
Tankage	MHB	—
Vanadium ore	MHB	—
Woodchips	MHB	—
Wood pellets	MHB	—
Wood products — General:	MHB	—
LOGS	MHB	—
PULP WOOD	MHB	—
TIMBER	MHB	—
ROUNDWOOD	MHB	—
SAW LOGS Logs, Pulp Wood, Timber, Roundwood, Saw Logs	MHB	—
WOOD TORREFIED	MHB	—
Zinc ashes, zinc dross, zinc residue, zinc skimmings	4.3	1435

## HAZARDOUS AREAS AND ELECTRICAL EQUIPMENT THAT MAY BE USED IN THESE AREAS

Table 2 is replaced by the following text:

"Table 2

### Requirements for electrical equipment on the basis of specific bulk cargoes

Dangerous goods	IMO class	Dominant risk <sup>1</sup>	Degrees of protection against explosive dust atmosphere	Protection against explosive gas atmosphere	
				Apparatus group	Temperature class
Aluminium dross	4.3	Hydrogen	–	IIC	T2
Aluminium ferrosilicon powder	4.3	Ditto	–	IIC	T2
Aluminium silicon powder uncoated	4.3	–/–	–	IIC	T2
Ammonium nitrate fertilizers:					
Type A No OOH 2067	5.1	See Refer to note <sup>2</sup>	–	–	–
Type B No OOH 2071	9	See Refer to note <sup>2</sup>	–	–	–
<b>MHB</b>	<b>MHB</b>	<b>Refer to note<sup>2</sup></b>	<b>=</b>	<b>=</b>	<b>=</b>
Coal	MHB	Dust, methane	IP55	IIA	T4
Direct reduced iron	MHB	Hydrogen	–	IIC	T2
Ferrophosphorus (no briquettes)	MHB	Ditto	–	IIC	T1
Ferrosilicon	4.3	–/–	–	IIC	T1
Iron oxide, iron sponge	4.2	Dust	IP55	IIA	T2
Seed cake, expellers	4.2	Hexane	–	IIA	T3
Silicomanganese	MHB	Hydrogen	–	IIC	T1
Sulphur	4.1	Inherent	IP55	–	T4
Zinc ashes, dross, residues, skimmings	4.3	Hydrogen	–	IIC	T2

<sup>1</sup> This column relates only to the possible evolution of substances which will affect the installation of electrical equipment and cables.

<sup>2</sup> Provision shall be made to disconnect all electrical circuits terminating within cargo spaces, in accordance with 3.1.

Annex 48 is replaced by the following text:

"ANNEX 48

### **48. SC 249. IMPLEMENTATION OF REGULATION II-1/3-5 OF SOLAS-74 AND MSC.1/CIRC.1379 INTERPRETATIONS AND SPECIFICATIONS ON PROHIBITION OF USE OF MATERIALS CONTAINING ASBESTOS ON SHIPS AND MODU**

These provisions are based on the IACS unified interpretation SC 249, as well as IMO Circular MSC.1/CIRC.1671 (January 2024), taking into account the IMO Resolutions MSC.543(107), MSC.544(107) and MSC.545(107).

### **Regulation II-1/3-5 of SOLAS-74**

From 1 January 2011, for all ships, new installation of materials which contain asbestos is prohibited.

### **IMO Circular MSC.1/Circ.1379**

In the context of this regulation, new installation of materials containing asbestos means any new physical installation on board. Any material purchased prior to 1 January 2011 being kept in the ship's store or in the shipyard for a ship under construction, should not be permitted to be installed after 1 January 2011 as a working part.

### **Unified Interpretations of Regulation II-1/3-5 of SOLAS-74**

1. Verification that "new installation of materials which contain asbestos" under regulation II-1/3-5 of SOLAS-74 is not made on ships requires the Recognized MA Organization to review asbestos-free declarations and supporting documentation, for the structure, machinery, electrical installations and equipment covered by SOLAS-74 as amended, which shall be provided to the Recognized MA Organization by shipyards, repair yards, and equipment manufacturers for: new construction (keel laid, or at a similar stage of construction, on or after 1 July 2012); conversions (contract date for the conversion or, in case of the absence of a contract, the date on which the work identifiable with the specific conversion begins) on or after 1 July 2012.

### **IMO Circular MSC.1/Circ.1379**

2. The phrase "new installation of materials containing asbestos" in IMO Circular MSC.1/Circ.1379: means that material used (i.e., repaired, replaced, maintained or added) as a working part of the ship as per Annex Table 1 which is installed on or after 1 July 2012 is required to be documented with an asbestos-free declaration. The Recognized MA Organization will, in consultation with the Company's nominated person responsible to control asbestos-containing material onboard as per the Safety Management System in compliance with IMO Circular MSC/Circ.1045, audit this documentation during annual safety construction and safety equipment surveys; and does not preclude the stowage of material which contains asbestos onboard (e.g., spare parts existing on board as of 1 July 2012).

3. The phrase "should not be permitted to be installed after 1 January 2011 as a working part" in IMO Circular MSC.1/Circ.1379 means that replacement, maintenance or addition of materials used for the structure, machinery, electrical installations and equipment covered by SOLAS-74 which contain asbestos is prohibited.

4. During periodical surveys of ships in service the surveyor to the Register shall verify that the asbestos free declarations are submitted and filled in accordance with the recommended form "Declaration of Conformity: Asbestos Free Construction in accordance with regulation II-1/3-5 of SOLAS-74 located in [www.rs-class.org](http://www.rs-class.org) in the section "Services/Technical supervision during construction of ships and floating facilities" ([www.rs-class.org/en/register/services/supervision/](http://www.rs-class.org/en/register/services/supervision/)) – refer to IACS Recommendation No. 130.

### **IMO Circular MSC.1/Circ.1671 (JANUARY 2024)**

5. The 1979 MODU Code, the 1989 MODU Code and the 2009 MODU Code, prohibiting materials containing asbestos from being installed on board MODU, have been amended by IMO Resolutions MSC.543(107), MSC.544(107) and MSC.545(107). The



amendments come in force on 1 January, 2024 and are applied to every MODU notwithstanding the date of construction. In this case, the provisions of the IMO circular MSC.1/Circ.1671, which contains Unified interpretations on the application of the amended regulation 2.10.3 of the 2009 MODU Code, as well as new regulations 2.8.2 of the 1989 MODU Code and 2.7.2 of the 1979 MODU Code, shall be followed.

6. According to the interpretation (refer to IMO Circular MSC.1/Circ.1671) the phrase "new installation of materials which contain asbestos should be prohibited" means that for MODU on or after 1 January 2024:

materials containing asbestos shall be prohibited from being installed on board; and any repairs, replacements, maintenance or additions to working parts, electrical installations and equipment under the requirements of the 2009 MODU Code, the 1989 MODU Code and the 1979 MODU Code shall be documented with an asbestos-free declaration for the materials used (refer to Table 1).

7. Notwithstanding the above, existing materials stowed on board before 1 January 2024 are not prohibited from being retained on board but shall not be installed unless they can be documented to be asbestos-free before use/installation.

8. During surveys required by the 1979, 1989 and 2009 MODU Codes, the RS surveyor in consultation with the person responsible to control asbestos-containing material on board, audit available documentation, including asbestos-free declarations and other supporting documentation, based on the Guidelines for maintenance and monitoring of onboard materials which contain asbestos on board MODUs (MSC.1/Circ.1672); and verify that materials which are documented to contain asbestos, as prohibited by regulation 2.10.3 of the 2009 MODU Code, regulation 2.8.2 of the 1989 MODU Code and regulation 2.7.2 of the 1979 MODU Code, have not been installed on board after 1 January 2024.

Appendix Table 1

Structure and/or equipment	Component
Propeller shafting	Packing with low pressure hydraulic piping flange Packing with casing Clutch Brake lining Synthetic stern tubes
Diesel engine	Packing with piping flange Lagging material for fuel pipe Lagging material for exhaust pipe Lagging material turbocharger
Turbine engine	Lagging material for casing Packing with flange of piping and valve for steam line, exhaust line and drain line Lagging material for piping and valve of steam line, exhaust line and drain line
Boiler	Insulation in combustion chamber Packing for casing door Lagging material for exhaust pipe Gasket for manhole Gasket for hand hole Gas shield packing for soot blower and other hole Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line
Exhaust gas economizer	Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line Packing for casing door Packing with manhole Packing with hand hole Gas shield packing for soot blower Packing with flange of piping and valve for steamline, exhaust line, fuel line and drain line Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line

Structure and/or equipment	Component
Incinerator	Packing for casing door Packing with manhole Packing with hand hole Lagging material for exhaust pipe
Auxiliary machinery (pump, compressor, oil purifier, crane)	Packing for casing door and valve Gland packing Brake lining
Heat exchanger	Packing with casing Gland packing for valve Lagging material and insulation
Valve	Gland packing with valve, sheet packing with piping flange Gasket with flange of high pressure and/or high temperature
Pipe, duct	Lagging material and insulation
Tank (fuel tank, hot water, tank, condenser), other equipments (fuel strainer, lubricant oil strainer)	Lagging material and insulation
Electric equipment	Insulation material
Ceiling, floor and wall in accommodation area	Ceiling, floor, wall
Fire door	Packing, construction and insulation of the fire door
Inert gas system	Packing for casing, etc.
Air-conditioning system	Sheet packing, lagging material for piping and flexible joint
Miscellaneous	Ropes Thermal insulating materials Fire shields/fire proofing Space/duct insulation Electrical cable materials Brake linings Floor tiles/deck underlay Steam/water/vent flange gaskets Adhesives/mastics/fillers Sound damping Moulded plastic products Sealing putty Shaft/valve packing Electrical bulkhead penetration packing Circuit breaker arc chutes Pipe hanger inserts Weld shop protectors/burn covers Fire-fighting blankets/clothing/equipment Concrete ballast

Note. The list mentioned above is in compliance with para 2.2.2.1 of Appendix 5, IMO resolution MEPC.197(62).".

Russian Maritime Register of Shipping

**Rule Change Notice  
to the Guidelines on Technical Supervision of Ships in Service with Annexes**

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