Subject

Application of IMSBC Code 6th Amendment



No.	TEC-1283
Date	21 December 2022

To whom it may concern

Please be informed the application of IMSBC Code Amendment 06-21 as follows. The IMSBC Code amended by IMO Resolution MSC.500(105) is referred to as "IMSBC Code 6th Amendment" in this Technical Information.

The current IMSBC Code 5th Amendment is valid until 30 November 2023. Therefore, ClassNK Technical Information No.TEC-1196 dated 24 December 2019 will be revoked on 30 November 2023.

- Application of the IMSBC Code 6th Amendment The IMSBC Code 6th Amendment to revise individual schedules of cargoes was adopted by the IMO Maritime Safety Committee 105th session (MSC105) held in April 2022. The Amendment will enter into force on 1 December 2023 and will be mandatory for all ships loading solid bulk cargoes on or after 1 December 2023.
- Cargoes newly added or revised The IMSBC Code 6th Amendment contains individual schedules of cargoes newly added or revised, which refer to Attachment 1 "Table 1 - Cargoes newly added and requirements on construction/equipment (IMSBC Code 6th Amendment)".
- Request of issuing the IMSBC Code fitness certificate
 In case requesting issuance of the fitness certificate for the IMSBC Code 6th Amendment, please
 refer to Attachment 2 "Guidance for the application of IMSBC Code 6th Amendment fitness
 certificate".
- 4. Application of the IMSBC Code 6th Amendment on a voluntary basis The IMSBC Code 6th Amendment may be applied on a voluntary basis from 1 January 2023 as a transition period. Therefore, in principle, ClassNK would issue IMSBC Code fitness certificates in accordance with the IMSBC Code 6th Amendment based on the following scheme.
 - (1) For cargoes of 'Group A and B' or 'Group B' listed in Table 1 of Attachment 1, the certificates will be issued in accordance with the IMSBC Code 6th Amendment in cases where ships comply with the corresponding requirements. In some cases, it may be necessary to carry out an onboard survey in order to issue the certificate. Please contact ClassNK Material & Equipment Department (EQD) if need more information.

(To be continued)

NOTES:

- ClassNK Technical Information is provided only for the purpose of supplying current information to its readers.
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- (2) When carrying newly added cargo due to the 6th Amendment, please request for rewriting of the IMSBC Code fitness certificate. Please note that the current fitness certificate issued in accordance with the 5th Amendment remains valid until the expiration date of the certificate, but does not cover new cargoes due to the 6th Amendment. ClassNK recommends rewriting the certificate to apply the 6th Amendment before 1 December 2023, when the Amendment will enter into force.
- 5. Rewriting of Exemption certificate for Fixed gas Fire-Extinguishing Arrangement (FFEA)
 - (1) The following cargoes were added to the cargoes that FFEA may be exempted to be carried, according to IMSBC Code 6th Amendment and MSC.1/Circ.1395/Rev.5 (Please refer to attachment 3.).
 - LEACH RESIDUE CONTAINING LEAD
 - SUPERPHOSPHATE (triple, granular)

For ships having exemption certificate for FFEA, it is necessary to rewrite the exemption certificate if the above-mentioned cargoes are intended to be transported for adding these cargo names to the list of cargoes attached to the exemption certificate. Please note that the exemption certificate needs to be re-written in conjunction with rewriting of the IMSBC Code fitness certificate according to above 4.(2).

- (2) In a case where a full-term exemption certificate has been issued by ClassNK, a new exemption certificate will be issued by ClassNK in order to include the above-mentioned cargoes.
- (3) For Panamanian flagged ships, the ship owner or management company needs to request the issuance of a full-term exemption certificate to the Panamanian Administration directly within 30 days after the interim exemption certificate is issued by ClassNK.
- (4) For Liberian flagged ships, ClassNK will request the Liberian Administration to issue the fullterm exemption certificate, upon the issuance of the interim exemption certificate by ClassNK.
- (5) In a case where a full-term exemption certificate is issued by the flag Administration except for Panamanian and Liberian Administrations, each flag Administrations have own procedures for issuance. Thus please contact ClassNK local office in charge of survey or ClassNK Classification Department (CLD) when procedures of the Administration is not clear.

(To be continued)

For any questions about the above, please contact:

[IMSBC Code fitness certificate and related questions]NIPPON KAIJI KYOKAI (ClassNK)Material & Equipment Department, Administration Center Annex, Head OfficeAddress:3-3 Kioi-cho, Chiyoda-ku, Tokyo 102-0094, JapanTel.:+81-3-5226-2020Fax:+81-3-5226-2057E-mail:eqd@classnk.or.jp

[Exemption certificate for Fixed Gas Fire-extinguishing system]Classification Department, Information Center, Head OfficeAddress:1-8-5 Ohnodai, Midori-ku, Chiba 267-0056, JapanTel.:+81-43-294-6469Fax:+81-43-294-5449E-mail:cld@classnk.or.jp

Attachment:

- 1. Table 1 Cargoes newly added and requirements on construction/equipment (IMSBC Code 6th Amendment)
- 2. Guidance for the application of the IMSBC Code 6th Amendment fitness certificate
- 3. LIST OF SOLID BULK CARGOES FOR WHICH A FIXED GAS FIRE-EXTINGUISHING SYSTEM MAY BE EXEMPTED MSC.1/Circ.1395/Rev.5

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CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Rilao lino	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical	Mechanical ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
AMMONIUM NITRATE	5.1	1942	В	Α	Y		Y	Y		ST		Yes	N1	Х	Х	Х		X^8	Х	Х	Х	(Yes)
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AMMONIUM NITRATE BASED FERTILIZER	9	2071	В	А	Y		Y	Y		ST		Yes	N1 or N2	х	Х	Х		X8	х	Х	Х	(Yes)
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CLAM SHELL			С																			
LEACH RESIDUE CONTAINING LEAD	MHB		A and B				Y	Y														
SUPERPHOSPHATE (triple, granular)			e																			
SUPERPHOSPHATE (triple, granular)	MHB		В				Y	Y														

Table 1 - Cargoes newly added and requirements on construction/equipment (IMSBC Code 6th Amendment)

Revised points are shown in red.

The contents of each column in Table 1 are the same as in Table 2.1

Guidance for the application of the IMSBC Code 6th Amendment fitness certificate

0101 General

Under the IMSBC Code, solid bulk cargoes are classified as follows

(1) Cargoes result in liquefaction or dynamic separation (Group A)

(2) Cargoes having chemical hazards (Group B)

(3) Cargoes other than formers (Group C).

In this guidance, they are referred to as "Group A cargoes", "Group B cargoes" and "Group C cargoes" respectively.

0102 Requirements for construction and equipment

- -1. A loading manual and a stability information booklet approved by ClassNK are required to be provided onboard regardless of the types of cargo intended to be carried.
- -2. In a case where the moisture content of Group A cargoes exceeds the transportable moisture limit, the cargo is to be carried by the specially constructed or fitted cargo ship designed with portable divisions or permanent structural boundaries to confine any shift of cargo. For details, please refer to IMSBC Code Section 7.
- -3. For the requirements for the carriage of Group B cargoes, please refer to Tables 2.1 and 2.2. For the requirements for the carriage of COAL and BROWN COAL BRIQUETTES only, please refer to Table 2.3.
- *Note 1.1:* The Code provides special requirements for construction and equipment for fire protection and personnel protection as well as operational precautions and information on the properties of each material.
- Note 1.2: The applications of the requirements of Reg.II-2/10.7 and 19 under SOLAS II-2 for carriage of dangerous goods are also shown in Table 2.1 for convenience's sake.

0103 Application

- -1. Applicant, the ship owner or their representative, or the shipbuilder, should submit an application containing the following items to ClassNK office in charge or Material and Equipment Department (EQD) before the survey onboard the ship. (Please refer to 0104)
 - (1) List of cargoes to be included in the IMSBC Code fitness certificate (Group A cargoes, Group C cargoes and/or Group B cargoes). In a case where the Group B cargoes are included, it is necessary to submit the list of Group B cargoes to EQD.
 - (2) For existing ships in the case where the survey onboard the ship is required, the expected date and place of the survey and local agent to contact.
 - (3) A list of documents submitted together with the application and of those expected to be submitted later, if any.
- -2. In the case where dangerous goods with the UN No. are included in the cargoes, the applicant should also apply for the issue of a certificate of compliance with the requirements of SOLAS74 Reg.II-2/54 (*Reg.II-2/19 under SOLAS2000*) as necessary.

0104 Submission of documents

-1. In the case where the certification is requested for the carriage of Group B cargoes, the applicant should submit the documents as shown in Table 2.4 (cargoes other than COAL and BROWN COAL BRIQUETTES) and/or Table 2.5 (COAL and BROWN COAL BRIQUETTES) to ClassNK office in charge or EQD. For existing ships, if ClassNK concludes that the condition of the ship's compliance with the applicable requirements should be checked by the survey onboard, submission of documents and document examination may be omitted. If it is not clear whether the submission of documents and document examinations are necessary or not, please contact EQD.

-2. In a case where the certification is requested for the carriage of Group A cargoes without appropriate restrictions on their moisture contents, the applicant should submit three sets of relevant structural drawings, stability calculations and other documents considered necessary by ClassNK to EQD.

0105 Document examination, survey and issue of certificate

After the document examination at EQD (if necessary) and a survey on board conducted at ClassNK office in charge of the survey, an IMSBC Code fitness certificate will be issued.

0106 Renewal and rewriting of the certificate

- -1. Rewriting of IMSBC Code fitness certificate due to the inclusion of Group A and B and/or Group B cargoes shown in Table 1 (due to 6th Amendment)
 - (1) In a case where there are no additional requirements (the vessel has already complied with the requirements at previous surveys), an application and the list of cargoes should be submitted to EQD.
 - (2) In case there are additional requirements (the survey on board is required), an application and the list of cargoes should be submitted to ClassNK local office.

For the rewriting of IMSBC Code fitness certificate, please refer to Fig.1 "Flowchart for rewriting IMSBC Code fitness certificate".

-2. Renewal of IMSBC Code fitness certificate

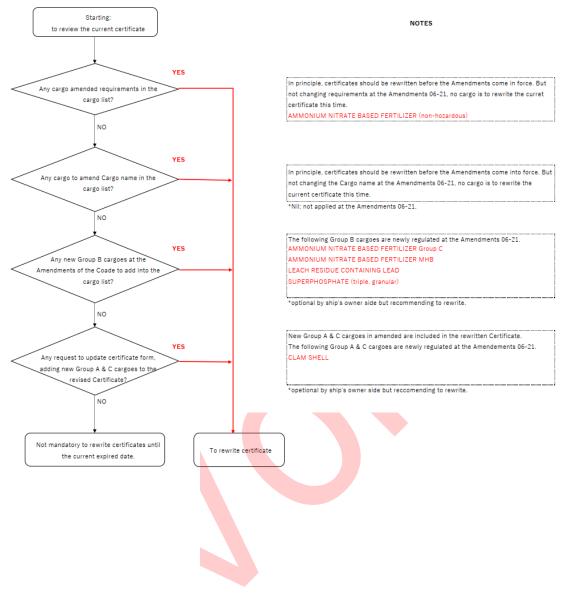
An application should be submitted to ClassNK local office. In the case, it is necessary to carry out an onboard survey even if the cargo list is not changed.

-3. Rewriting of IMSBC Code fitness certificate due to change of flag or ship's name An application should be submitted to ClassNK local office. In the case, it is necessary to carry out an onboard survey even if the cargo list is not changed.

0107 Expiration date of certificate

- -1. In principle, the date of validity of the IMSBC Code fitness certificate is the same as that of the classification certificate. At the time of renewal surveys, the expiration date will be extended to 5 years.
- -2. When rewriting the certificate due to the IMSBC Code 6th Amendment, the expiration date of the current certificate before rewriting will continue.
- -3. Even if the IMSBC Code fitness certificate is not rewritten due to the Code Amendment, it is valid until the current certificate expires, but please note that the new or changed cargo due to the Code Amendment will not be subject to the certificate. ClassNK recommends rewriting to certificates before the mandatory application starts. For the 6th Amendment, please complete the rewriting procedure before 1 December 2023.

Fig.1 Flowchart for rewriting IMSBC Code fittness certificate



Requirements of construction and equipment for individual cargoes

under the provisions of the IMSBC Code 6th Amendment and SOLAS Reg.II-2/54.2 (Reg.II-2/19.3 on or after 2000 amendments)

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AMMONIUM NITRATE BASED FERTILIZER MHB	MHB		В	А	Y		Y	Y		ST			N1 or N2		Х							(Yes)
AMMONIUM NITRATE BASED FERTILIZER	5.1	2067	В	А	Y		Y	Y		ST		Y	N1 or N2	Х	Х	Х		X ⁸	Х	Х	Х	(Yes)
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a	b	c	d	e	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	w
															S	OLAS	Reg.I	[-2/54.2	2 or 19	.3		
CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Bilae line	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical equipment	Mechanical ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
DIRECT REDUCED IRON, (A)	MHB		В	F	Y	Nm,				IICT2												
Briquettes, hot-moulded DIRECT REDUCED IRON, (B)	MID		D	Г		Sp			$\left \right $	HOTA												V
Lumps, pellets, cold-moulded briquettes ³	MHB		В	F	Y					IICT2												Yes
DIRECT REDUCED IRON, (C) (By-product fines) ³	MHB		В	F	Y		Y			IICT2												Yes
DISTILLERS DRIED GRAINS WITH SOLUBLES			С																			
DOLOMITE			С																			
FELSPAR LUMP			С																			
FERROCHROME			С																			
FERROCHROME, exothermic			С																			
FERROMANGANESE			С																			
FERRONICKEL			С																			
FERRONICKEL SLAG (granulated)			C																			
FERROPHOSPHORUS (including briquettes)	MHB		В			ML, Sa	Y			IICT1												
FERROSILICON with 30% or more but less than 90% silicon	4.3	1408	в	A, G	Y	ML, Sa	Y	Y	F, N	IICT1						х	Х	х	х	Х	Х	
(including briquettes) FERROSILICON with at least 25% but less than 30% silicon, or 90%									± •													
or more silicon	MHB		В	G	Y	ML, Sa	Y		F, N	IICT1												
FERROUS METAL BORINGS, SHAVINGS, TURNINGS or	4.2	2793	В	А	Y		Y							Х	Х				Х	Х	Х	Yes
CUTTINGS	4.2	2795	D	A	I		I							Λ	л				л	л	л	res
FERROUS SULPHATE HEPTAHYDRATE			С																			
FERTILIZERS WITHOUT NITRATES (non-hazardous)			C																			
FISH (IN BULK)			Α																			
FISH MEAL (FISH SCRAP), STABILIZED	9	2216	В			Nm	Y	-						Х	Х				Х	Х		Yes
FLUE DUST, CONTAINING LEAD AND ZINC	MHB		A and B				Y	Y														
FLUORSPAR	MHB	ļ	A and B																			
FLY ASH, DRY		ļ	C																			
FLY ASH, WET			А						\square									<u> </u>				
FOAM GLASS GRAVEL			C						\square													
GLASS CULLET			C						\square													
GRAIN SCREENING PELLETS			C		<u> </u>				$\left \right $									<u> </u>				
GRANULAR FERROUS SULPHATE	+		С						\vdash													
GRANULATED NICKEL MATTE (LESS THAN 2% MOISTURE CONTENT)	MHB		В				Y	Y														
	-		I						1									I				
GRANULATED SLAG			С																			

CARGORS COMPAN P P P P P P P P P P P P P	a	b	с	d	e	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	w
GYPSUM C <td></td> <td>S</td> <td>OLAS</td> <td>Reg.I</td> <td>I-2/54.2</td> <td>2 or 19</td> <td>.3</td> <td></td> <td></td>																S	OLAS	Reg.I	I-2/54.2	2 or 19	.3		
GYPSUM C <td< td=""><td>CARGOES</td><td>IMO class</td><td>UN No.</td><td>Group</td><td>Stowage</td><td>NO SMOKING sign</td><td>Ventilation</td><td>SCBA</td><td>Protective clothing</td><td>Bilæ line</td><td>Explosion protected electrical equipment</td><td>Dual purpose nozzles</td><td>4 jets of water</td><td>Heating arrangement</td><td>Remote control of fire pump</td><td>4 jets of water</td><td>Explosion-protected electrical</td><td>Mechanical ventilation</td><td>Safe type fan</td><td>Natural ventilation</td><td>Personnel protection</td><td>A-60 insulation</td><td>FFEA (SOLAS Reg.II-2/10.7.1.3)</td></td<>	CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Bilæ line	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical	Mechanical ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
ILMENTE (LAY - <t< td=""><td>GYPSUM</td><td></td><td></td><td>С</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	GYPSUM			С																			
ILMENTIFE (ROCK) IMENTIFE (ROCK) IMENTIFE (UPGRADED) IMENTIFE (UPGRADED) <td>GYPSUM GRANULATED</td> <td></td> <td></td> <td>С</td> <td></td>	GYPSUM GRANULATED			С																			
LIMENTE SAND A <t< td=""><td></td><td></td><td></td><td>А</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				А																			
LIMENTE SAND A <t< td=""><td>ILMENITE (ROCK)</td><td></td><td></td><td>С</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	ILMENITE (ROCK)			С																			
IRON AND STELL SLAG AND ITS MIXTURE Image: Constraint of the state of the st				А																			
IRON AND STELL SLAG AND ITS MIXTURE Image: Constraint of the state of the st	ILMENITE (UPGRADED)			А																			
IRON ORE C<																							
IRON ORE FINES A																							
IRON ORE PELLETS C C Nm Y I IAT2 V X																							
IRON OXDE, SPENT or IRON SPONGE, SPENT 4.2 1376 B A Nm Y Y JIAT2 Y X X X X X X X X X Y Y Y JIAT2 Y I X X X X X X Y Y Y JIAT2 Y I X X X X X Y Y Y JIAT2 Y I X X X X X X Y Y Y I X X X Y Y Y I X X X Y Y Y X X X X X X Y Y Y X X X X X X Y Y X																							
IRON OXIDE TECHNICAL A C A C		4.2	1376		Δ		Nm	v	v		ΠΔΤ2	v			x	x				x	x	x	Ves
IRON SINTER C <th< td=""><td></td><td>7.2</td><td>1570</td><td></td><td>- 7</td><td>7</td><td>1111</td><td>-</td><td></td><td></td><td>IIATZ</td><td>1</td><td></td><td></td><td>Λ</td><td>Λ</td><td></td><td></td><td></td><td>Λ</td><td>Λ</td><td>Λ</td><td>103</td></th<>		7.2	1570		- 7	7	1111	-			IIATZ	1			Λ	Λ				Λ	Λ	Λ	103
IRON SMELTING BY-PRODUCTS C<																							
IRONSTONE C											· ·												
LABRADORITE C <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																							
LEACH RESIDUE CONTAINING LEAD MHB A and B Y Z Z										/													
LEAD NITRATE5.11469BNYYYXX </td <td></td> <td>MID</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>v</td> <td>V</td> <td></td>		MID						v	V														
LEAD ORE C<			14(0				N	-				v	v		v	v				v	v		(V)
LIME (UNSLAKED) MHB B C		5.1	1409				IN	Y	Y			Ŷ	Y		Λ	Λ				Λ	Λ		(Yes)
LIMESTONE C C C V		MUD																					
LINTED COTTON SEEDMHBBYII		MHB																					
MAGNESIA (DEADBURNED)Image: constraint of the system of the		1.0775																					
MAGNESIA (UNSLAKED)MHBBCCII		MHB						Y															Yes
MAGNESITE, naturalCCCVV </td <td></td> <td>1.0775</td> <td></td>		1.0775																					
MAGNESIUM NITRATE5.11474BVYYYXXVXXXVYY <th< td=""><td></td><td>MHB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		MHB																					
MAGNESIUM SULPHATE FERTILIZERSCCII				-								-											
MANGANESE COMPONENT FERROALLOY SLAGCCCII		5.1	1474					Y	Y			Y	Y		Х	Х	L	L		Х	Х		(Yes)
MANGANESE ORECCCII <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td> </td><td> </td><td></td><td></td><td></td></t<>																							
MANGANESE ORE FINESIAIAIII<																							
MARBLE CHIPSCCCII <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td> </td><td> </td><td></td><td></td><td></td></th<>																							
MATTE CONTAINING COPPER AND LEADMHBBYYIIIIIIMETAL SULPHIDE CONCENTRATESMHBA and BYYIIIIIIYYMETAL SULPHIDE CONCENTRATES, CORROSIVE81759A and BYYIIIIYY <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																							
METAL SULPHIDE CONCENTRATESMHBA and BYIIIIYIIIIYYY																							
METAL SULPHIDE CONCENTRATES, CORROSIVE81759A and BYYIIIYY <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Y</td> <td></td>									Y														
METAL SULPHIDE CONCENTRATES, SELF-HEATING4.23190A and BAYYXXXXXYMINERAL CONCENTRATESAAVV	METAL SULPHIDE CONCENTRATES	MHB		A and B																			Yes ⁹
MINERAL CONCENTRATES A A	METAL SULPHIDE CONCENTRATES, CORROSIVE	8	1759	A and B				Y	Y											Y	Y		Yes ⁹
MINERAL CONCENTRATES A A I I I I I I I I I I I I I I I I I	METAL SULPHIDE CONCENTRATES, SELF-HEATING	4.2	3190	A and B	А			Y	Y						Х	Х				Х	Х	Х	Yes
	MONOAMMONIUM PHOSPHATE (M.A.P.)	1		С																			

a	b	с	d	e	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	w
															S	OLAS	Reg.I	I-2/54.2	2 or 19	.3		
CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Rilae line	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical equipment	cal ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
MONOAMMONIUM PHOSPHATE (M.A.P.), MINERAL	MHB		В				Y	Y														
ENRICHED COATING																	-					
MONOCALCIUMPHOSPHATE (MCP)	MHB		A and B				Y	Y														
NICKEL ORE			A					-									-					
OLIVINE GRANULAR AND GRAVEL AGGREGATE PRODUCTS			С																			
OLIVINE SAND			A																			
PEANUTS (in shell)			С					-									-					
PEAT MOSS	MHB		A and B			Nm		-									-					
PEBBLES (sea)			С																			
PELLETS (concentrates)			С																			
PERLITE ROCK			С					_									-					
PETROLEUM COKE (calcined or uncalcined)	MHB		В				Y	Y			Y											
PHOSPHATE (defluorinated)			С														-					
PHOSPHATE ROCK (calcined)			С																			
PHOSPHATE ROCK (uncalcined)			С																			
PIG IRON			C																			
PITCH PRILL	MHB		В			Nm	Y	Y			Y											
POTASH			C																			
POTASSIUM CHLORIDE			C																			
POTASSIUM NITRATE	5.1	1486	В				Y	Y			Y	Y		Х	Х		-		Х	Х		(Yes)
POTASSIUM SULPHATE			С					-									-					
PUMICE			C					-									-					
PYRITE (containing copper and iron)			C																			
PYRITES, CALCINED (Calcined Pyrites)	MHB		A and B																			
PYROPHYLLITE			С	-																		
QUARTZ			С																			
QUARTZITE			С																			
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I)	7	2912	В				Y	Y														
RADIOACTIVE MATERIAL, SURFACE CONTAMINATED	7	2913	В				Y	Y														
OBJECTS (SCO-I)								-	\vdash													
RASORITE (ANHYDROUS)			C						\vdash													
RUTILE SAND			C																			
SALT			C						\vdash													
SALT CAKE			C						\vdash													
SALT ROCK			C						\vdash													
SAND			C						\vdash													
SAND, HEAVY MINERAL			А																			

a	b	с	d	e	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	W
															S	OLAS	Reg.I	I-2/54.	2 or 19	.3		
CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Bilmeline	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical	Mechanical ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
SAND, MINERAL CONCENTRATE, RADIOACTIVE MATERIAL,	7	2912	A and B				Y	Y														
LOW SPECIFIC ACTIVITY (LSA-I) SAWDUST	MHB		В			Nm			-									+				Yes
SAWDUST SCALE GENERATED FROM THE IRON AND STEEL MAKING PROCESS	IVIND		A			INIII																1 05
SCRAP METAL			С			Nm																
SEED CAKE (a)	4.2	1386	B	А			Y							Х	Х				Х	Х	Х	Yes
SEED CAKE (b)	4.2	1386	B	A ⁵	Y	Nm, Sp				IIAT3 5				X	X	X ⁵	X ⁵	X ⁵	X	X	X	Yes
SEED CAKE	4.2	2217	B	Α		Nm, Sp				IIAT3				X	X	X	X	X	X	X	X	Yes
SEED CAKES AND OTHER RESIDUES OF PROCESSED OILY		2217			-																	
VEGETABLES	MHB		В			Nm, Sp	Y			IIAT3												Yes
SEED CAKES AND OTHER RESIDUES OF PROCESSED OILY VEGETABLES			С																			
SILICOMANGANESE (carbo-thermic)			С																			
SILICOMANGANESE (low carbon)	MHB		В		Y	M, Sa	Y			IICT1												
SILICON SLAG			C																			
SODA ASH			C																			
SODIUM NITRATE	5.1	1498	В				Y	Y			Y	Y		Х	Х				Х	Х		(Yes)
SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE	5.1	1499	В				Y	Y			Y	Y		Х	Х				Х	Х		(Yes)
SOLIDIFIED FUELS RECYCLED FROM PAPER AND PLASTICS	MHB		В					Y														Yes
SPODUMENE (UPGRADED)			А																			
STAINLESS STEEL GRINDING DUST			С																			
STONE CHIPPINGS			C																			
SUGAR			С																			
SUGARCANE BIOMASS PELLETS	MHB		В				Y															Yes
SULPHATE OF POTASH AND MAGNESIUM			С																			I
SULPHUR (formed, solid)			С			Nm																
SULPHUR (crushed lump and coarse grained) ⁶	4.1	1350	В	Α	Y	Nm, Sp	Y			IIAT4				Х	Х	Х		X ⁸	Х	Х	Х	I
SUPERPHOSPHATE			С			L										L		ļ				I
SUPERPHOSPHATE (triple, granular)			C			L										L		ļ				I
SUPERPHOSPHATE (triple, granular)	MHB		В		<u> </u>	ļ	Y	Y	1							<u> </u>	<u> </u>	<u> </u>				
SYNTHETIC CALCIUM FLUORIDE			Α		<u> </u>	ļ			1							<u> </u>	<u> </u>	<u> </u>				I
SYNTHETIC SILICON DIOXIDE			А														<u> </u>	<u> </u>				I
TACONITE PELLETS			С															ļ]
TALC			С			L										L		ļ				
TANKAGE	MHB		В				Y											ļ				Yes
TAPIOCA			С																			

a	b	с	d	е	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	w
															S	OLAS	Reg.II	[-2/54.2	2 or 19	.3		
CARGOES	IMO class	UN No.	Group	Stowage	NO SMOKING sign	Ventilation	SCBA	Protective clothing	Bilae line	Explosion protected electrical equipment	Dual purpose nozzles	4 jets of water	Heating arrangement	Remote control of fire pump	4 jets of water	Explosion-protected electrical equipment	Mechanical ventilation	Safe type fan	Natural ventilation	Personnel protection	A-60 insulation	FFEA (SOLAS Reg.II-2/10.7.1.3)
TITANOMAGNETITE SAND			A				•••								7							
UREA			С																			
VANADIUM ORE	MHB		В				Y															
VERMICULITE			С																			
WHITE QUARTZ			С																			
WOODCHIPS	MHB		В				Y															Yes ⁷
WOOD PELLETS CONTAINING ADDITIVES AND/OR BINDERS	MHB		В				Y															Yes
WOOD PELLETS NOT CONTAINING ANY ADDITIVES AND/OR BINDERS	MHB		В				Y															
WOOD PRODUCTS - GENERAL	MHB		В			Nm	Y															
WOOD TORREFIED	MHB		B				Ŷ															Yes
ZINC ASHES	4.3	1435	В	Α	Y	ML, Sa	Y	Y		IICT2						Х	Х	Х	Х	Х	Х	
ZINC OXIDE ENRICHED FLUE DUST	MHB		A and B			,	Y	Y														
ZINC SLAG			A																			
ZIRCON KYANITE CONCENTRATE			Α																			
ZIRCON SAND			С						/													

The contents of each column in Table 2.1 are as follows.

1. CARGOES (column "a")

Bulk Cargo Shipping Name is expressed in capital letters and identifies bulk cargo during transport by sea.

2. IMO class (column "b")

Group B cargoes are categorized into the following classes.

- Class 4.1 : Flammable solids
- Class 4.2 : Substances liable to spontaneous combustion
- Class 4.3 : Substances which, in contact with water, emit flammable gases
- Class 5.1 : Oxidizing substances (agents)
- Class 7 : Radioactive materials
- Class 8 : Corrosive solid substances
- Class 9 : Miscellaneous dangerous substances and articles
- MHB : Materials which may possess chemical hazards when transported in bulk other than materials classified as dangerous goods in the IMDG Code.
- 3. UN No. (column "c")

This is a 4-digit number assigned to a particular dangerous substance included in the dangerous substance list (approximately 3,000 items) within the United Nations Recommendations on the Transport of Dangerous Goods issued by the United Nation Committee of Experts on the Transport of Dangerous Goods.

- 4. Group (column "d")
 - A : Group A consists of cargoes which possess a hazard due to moisture that may result in liquefaction or dynamic separation if shipped at a moisture content in excess of their transportable moisture limit.
 - B : Group B consists of cargoes which possess a chemical hazard which could give rise to a dangerous situation on a ship.
 - C : Group C consists of cargoes which are neither classified as Group A nor Group B.
- 5. Stowage (column "e")
 - A : Bulkheads to the engine room are to be insulated to A-60 standard or to be isolated by the spaces (e.g., FOT, DOT, Void Space).
 - F : Boundaries of components are to be resistant to fire and passage of water.
 - G : Bulkheads to the engine room are to be of gastight.
- 6. NO SMOKING sign (column "f")
 - Y : "NO SMOKING" signs are to be posted on decks and in areas adjacent to cargo compartments.
- 7. Ventilation (column "g")
 - N : Natural ventilation system is to be provided for cargo holds.
 - Nm : Natural or mechanical ventilation system is to be provided for cargo holds.
 - $\,M\,$: Mechanical ventilation system is to be provided for cargo holds.
 - ML : At least two mechanical ventilation fans are to be provided for cargo holds. The total ventilation is to be at least six air changes per hour. Ventilation openings are to comply with the requirements of the Load Line Convention as amended for openings not fitted with means of closure. The height of coaming is to be equal to or more than the regulated height (Position 1: 4.5 m, Position 2: 2.3 m).
 - Sa : Ventilation fans are to be safe for use in a flammable atmosphere.
 - Sp : Spark-arresting screens (wire mesh guards with max. 13mm X 13mm) are to be fitted to ventilation openings.
- 8. SCBA (column "h")
 - Y : Two sets of self-contained breathing apparatuses with 200% spare cylinders are to be additionally provided.
- 9. Protective clothing resistant to chemical attack (column "i")
 - Y : Four sets of protective clothing which consist of a pair of gloves, boots, protective clothing and helmet with goggles are to be additionally provided.

- 10. Bilge line (column "j")
 - F : In case bilge lines are led to machinery space, bilge line is to be isolated by fitting a blank flange or a closed lockable valve.
 - N : A notice is to be placed adjacent to the valve warning against opening without the master's permission.
- 11. Electrical equipment (column "k")

Not suitable explosion protected type electrical equipment is to be disconnected (by removal of links in the system, other than fuses) from the power source at a point external to the space.

- IIAT2: Electrical equipment having an explosion protection grade of IIAT2 or upwards is considered suitable explosion-protected type electrical equipment.
- IIAT3: Electrical equipment having an explosion protection grade of IIAT3 or upwards is considered suitable explosion-protected type electrical equipment.
- IIAT4: Electrical equipment having an explosion protection grade of IIAT4 or upwards is considered suitable explosion-protected type electrical equipment.
- IICT1: Electrical equipment having an explosion protection grade of IICT1 or upwards is considered suitable explosion-protected type electrical equipment.
- IICT2: Electrical equipment having an explosion protection grade of IICT2 or upwards is considered suitable explosion-protected type electrical equipment.
- ST: IICT6 or IS

IICT6: Electrical equipment having an explosion protection grade of IICT6 or upwards is considered as suitable explosion protected type electrical equipment.

IS: Intrinsically safe type electrical equipment is considered suitable explosion-protected type electrical equipment.

12. Dual-purpose nozzles (column "l")

Y: Nozzles provided with fire hoses are to be of dual-purpose type (i.e., spray/jet type).

- 13. 4 jets of water (column "m")
 - Y: The quantity of water delivered is to be capable of supplying four nozzles at pressure as specified in SOLAS regulation and being trained on any part of the cargo space when empty.
- 14. Heating Arrangement (column "n")
 - N1: The means to disconnect heating arrangements for the tank(s) are to be provided.
 - N2: The means to monitor and control the temperature of the boundary between the tank(s) and cargo space(s) loading the cargo so that it does not exceed 50°C are to be provided.
- Requirements of SOLAS Reg.II-2/54.2 (Reg.II-2/19.3 on or after 2000 amendments) (column "o" ∼ "v") X : Applicable.
- 16. FFEA (SOLAS Reg.II-2/10.7.1.3) (column "w")

Yes: Fixed CO2 fire extinguishing system for cargo holds is required by SOLAS Reg.II-2/10.7.1.3.

(Yes): Fixed gas fire-extinguishing system is ineffective and for which a fixed fire-extinguishing system giving equivalent protection shall be available. According to the Unified Interpretation of IMO, water supplies defined in SOLAS Reg.II-2/19.3.1.2 are considered as the alternative to a fixed gas fire-extinguishing system in cargo spaces.

General notes:

- For the detailed requirements of the IMSBC Code, the relevant part of the Code should be referred to.
- The application of the requirements of SOLAS Reg.II-2/54.2 or 19.3 is shown just for ready reference.
 For the detailed requirements, the relevant part of the SOLAS should be referred to.
- Blank columns mean "Not applicable".

Notes : 1. CASTOR MEAL, CASTOR POMACE and CASTOR FLAKE shall not be carried in bulk.

- 2. For the planned voyage not exceeding 5 days from the commencement of loading to the completion of discharge, the ship may be exempted from the requirements of FFEA.
- 3. Consideration shall be given to providing the ship with the means to top up the cargo spaces with

additional supplies of inert gas taking into account the duration of the voyage. The ship's fixed CO2 fire extinguishing system shall not be used for this purpose.

- 4. (blank)
- 5. Only applicable to Seedcake containing solvent extractions only.
- 6. Fine grained sulphur (flowers of sulphur) shall not be transported in bulk.
- 7. With a moisture content of 15% or more, the ship may be exempted from the requirements of FFEA.
- 8. Only suitable wire mesh guards are required.
- 9. Except Metal Sulphide Concentrates considered as presenting a low fire risk.



IMSBC Code - Initial Checklist (For cargoes other than COAL and BROWN COAL BRIQUETTES)

Columns	Requirements	Results
	Stowage:	
	□ Bulkheads to the engine room are to be insulated to A-60 standard or to be isolated by the spaces (e.g., FOT,	
e	DOT, Void Space).	
	□ Boundaries of components are to be resistant to fire and passage of water.	
	□ Bulkheads to the engine room are to be of gastight.	
c	NO SMOKING sign:	
f	"NO SMOKING" signs are to be posted on decks and in areas adjacent to cargo compartment.	
	Ventilation:	
	□ Natural ventilation systems are to be provided for cargo holds.	
	□ Natural or mechanical ventilation systems are to be provided for cargo holds.	
	☐ Mechanical ventilation systems are to be provided for cargo holds.	
	At least two mechanical ventilation fans are to be provided for cargo holds. The total ventilation is to be at	_
g	least six air changes per hour. Ventilation openings are to comply with the requirements of the Load Line	
	Convention as amended for openings not fitted with means of closure. The height of coaming is to be equal to	
	or more than regulated height (Position 1: 4.5 m, Position 2: 2.3 m).	
	□ Ventilation fans are to be safe for use in a flammable atmosphere.	
	\Box Spark-arresting screens (wire mesh guards with max. 13mm×13mm) are to be fitted to ventilation openings.	
	SCBA:	
h	☐ Two self-contained breathing apparatuses with 200% spare cylinders are to be additionally provided.	
	Protective clothing resistant to chemical attack:	
i	☐ Four sets of protective clothing which consists of boots, gloves, coverall and headgear are to be additionally	
	provided.	
	Bilge line:	
	☐ In case where bilge lines are led to machinery space, bilge lines are to be isolated either by fitting a blank flange	
j	or by a closed lockable valve.	
	□ A notice is to be placed adjacent to the valve warning against opening without the master's permission.	
	Electrical equipment:	
	Electrical equipment fitted in the cargo holds, including motors of mechanical ventilation systems, are to be of	
	safe type having an explosion protection grade/type stated below or upwards. Not suitable explosion protected	
k	type electrical equipment are to be capable of being positively isolated from outside of the spaces.	
	$(\Box \text{ IIAT2} / \Box \text{ IIAT3} / \Box \text{ IIAT4} / \Box \text{ IICT1} / \Box \text{ IICT2}$	
	\square IICT3 / \square IICT4 / \square IICT6 / \square Intrinsically safe type)	
	Dual purpose nozzles	
1	□ Nozzles provided with fire hoses are to be of dual-purpose type (i.e., spray/jet type).	
	4 jets of water	
m	The quantity of water delivered is to be capable of supplying four nozzles at pressure as specified in SOLAS	
	regulation and being trained on any part of the cargo space when empty.	
	Heating arrangement	
n	☐ The means to disconnect heating arrangement for the tank(s) are to be provided (spectacle flange).	
	☐ The means to unsconnect neutring an angement for the tank(s) are to be provided (spectree hange). ☐ The means to monitor and control the temperature so that it does not exceed 50°Care to be provided.	
	FFEA	
w	☐ Fixed CO2 fire extinguishing system is to be provided for cargo holds.	

2. The results of confirmation survey on board have been shown in the right columns. For the requirements complied with, the columns should be checked. For the requirements not applied, "NA" should be entered in the columns.

IMSBC Code - Initial Checklist (For COAL and BROWN COAL BRIQUETTES)

1	Boundaries of cargo spaces are to be resistant to fire and liquids.	
2	Electrical equipment fitted in the cargo holds are to be of safe type having an explosion protection grade of IIAT4	
	or upwards. Not suitable explosion protected type electrical equipment are to be capable of being positively isolated	
	from outside of the spaces and have the enclosure having a protection degree of IP55 or upwards, and caution plates	
	to ensure isolation of electrical equipment are to be provided.	
3	Suitable means for measuring following gases, etc. in cargo spaces without entry into such spaces are to be	
	provided.	
	Methane	
	Oxygen	
	Carbon monoxide	
	pH value	
	Temperature (0 - 100°C)	
4(*)	Two sets of self-contained breathing apparatus are to be provided. (Note: The apparatus required by SOLAS Reg.II-	
	2/17(00E) or Reg.II-2/10(00N) may be used for this purpose)	
5	"No Smoking" signs are to be posted in conspicuous places.	
6(*)	Natural ventilation system is to be provided for cargo spaces and air holes should be provided at the upper part of	
	web plates of longitudinal and transverse girders fitted to deck plates with appropriate spacing.	
	Note: Air holes should not be located at any part that may be subject to stress concentration.	
7	Natural or mechanical ventilation systems are to be provided for adjacent enclosed working spaces, such as store	
	rooms, carpenter's shops, passageways, tunnels. In the case of mechanical ventilation, only the equipment which	
	is safe type for use in an explosive atmosphere can be used in the cargo area.	
8	Two sampling holes per hold, one on the port side and one on the starboard side of the hatch cover or upper parts	
	of hatch coamings are to be provided with threaded stub and sealing cap.	
Note	1. The items marked with (*) are not applicable to brown coal (lignite) briquettes.	

2. The results of the confirmation survey on board have been shown in the right columns. For the requirements complied with,

the columns should be checked. For the requirements not applied, "NA" should be entered in the columns.

Documents/information to be submitted

(1)	(2)	Required items (1) Column of Table 2.2 (2) Regulation of SOLAS II-2/54 (II-2/19)		Documents/information to be submitted The meanings of "H" and "L" are specified under this table.
e	2.8 (3.8)	"A-60" class insulation of bulkheads between the cargo space and engine room	Н	Drawings of fire protection construction Type and manufacture of the material
f		"NO SMOKING" signs	L	Number and locations of the signs
		Natural ventilation.		
	2.4.3 (3.4.3)	Natural or mechanical ventilation.	Н	Drawings of the system
~		Mechanical ventilation		
g	2.4.1	Mechanical ventilation (total ventilation at least six air	н	Drawings of the system
	(3.4.1)	changes per hour)		Calculations of the air changes
	2.4.2	Non-sparking fans	L	Specifications
	(3.4.2)	Spark-arresting screens (wire mesh guard)	L	Specifications
h	2.6.2 (3.6.2)	Self-contained breathing apparatus	L	Type, manufacturer and specifications
i	2.6.1 (3.6.1)	Protective clothing resistant to chemicals	L	Type, manufacturer and specifications
j		Stop valves and blank flanges on the bilge lines on machinery space side	Н	Drawing of bilge lines
k	2.2 (3.2)	Electrical equipment to be of safe type.	Н	Arrangement and wiring diagram of electrical equipment fitted in the space including grade of each equipment.
1	-	Jet/spray dual purpose type nozzle	Ľ	Type, manufacturer and specifications
m	2.1.2 (3.1.2)	Capacity of fire pumps to supply four nozzles	Н	Fire main piping diagram with arrangement of hydrant and pump capacity.
n	-	Heating arrangement	Н	Drawing of heating arrangement. Drawing of the system for measuring and monitoring temperature.
w	-	Fixed CO ₂ fire extinguishing system for cargo hold (FFEA)	Н	Drawing of the system

H: To be submitted to Material and Equipment department for examination by the Head office.

L: To be submitted to the local office for their checking.

Documents/information to be submitted for COAL/BROWN COAL BRIQUETTES

Requirements on Table 2.3	1	uments/information to be submitted The meaning of "L" is specified under his table
Boundaries of cargo spaces should be resistant to fire and liquids.	-	_
Electrical cables and components situated in cargo spaces and adjacent spaces should be free from defects and safe for use in explosive atmosphere or positively isolated.	L	Arrangement and wiring diagram of electrical equipment fitted in the space including grade of each equipment, such as IIAT4.
Appropriate instruments for measuring followings into cargo spaces without entry into such spaces should be provided. Methane Oxygen Carbon monoxide pH value Temperature (0 - 100°C)	L	Type, manufacturer and specifications
Two sets of self-contained breathing apparatus to be provided.	L	Type, manufacturer and specifications
"No Smoking" sign and "No naked flames" sign should be posted in conspicuous places.	L	Number and locations of the signs
Natural surface ventilation should be provided for cargo spaces.	L	Drawings of the ventilation systems Arrangement of air holes
Natural or mechanical ventilation should be provided for enclosed working spaces, such as store rooms, carpenter's shops, passageways, tunnels. Mechanical ventilation, if used, should be of safe type for use in explosive atmosphere.	L	Drawings of the system
Two sampling holes per hold, one on each side of the hatch cover should be provided with threaded stub and sealing cap.	L	Drawings of the system

L: To be submitted to the local office for their checking.



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> MSC.1/Circ.1395/Rev.5 28 April 2022

F

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/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/Circ.1146. The Maritime Safety Committee, at its ninety-second session (12 to 21 June 2013), approved a revision of MSC.1/Circ.1395(MSC.1/Circ.1395/Rev.1).

5 The Maritime Safety Committee, at its ninety-fifth session (3 to 12 June 2015), considering a proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its first session, approved a revision of tables 1 and 2 of MSC.1/Circ.1395/Rev.1 (MSC.1/Circ.1395/Rev.2).

6 The Maritime Safety Committee, at its ninety-eighth session (7 to 16 June 2017), considering a proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its third session, approved a revision of tables 1 and 2 of MSC.1/Circ.1395/Rev.2 (MSC.1/Circ.1395/Rev.3).

7 The Maritime Safety Committee, at its 101st session (5 to 14 June 2019), considering a proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its third session, approved a revision of tables 1 and 2 of MSC.1/Circ.1395/Rev.3 (MSC.1/Circ.1395/Rev.4).

8 The Maritime Safety Committee, at its 105th session (20 to 29 April 2022), considering the proposal by the Sub-Committee on Carriage of Cargoes and Containers, at its seventh session, approved a revision of tables 1 and 2 of MSC.1/Circ.1395/Rev.4, as set out in the annex.

9 The purpose of this circular is to provide guidance to Administrations. However, Administrations are not prevented from granting exemptions for cargoes not included in table 1 or imposing any conditions when granting such exemptions under the provisions of SOLAS regulation II-2/10.7.1.4.

10 This circular supersedes MSC.1/Circ.1395/Rev.4.



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;
- .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 name) **ALUMINIUM FERROSILICON POWDER UN 1395** ALUMINIUM SILICON POWDER, UNCOATED UN 1398 AMORPHOUS SODIUM SILICATE LUMPS BORIC ACID **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 FLUE DUST, CONTAINING LEAD AND ZINC **FLUORSPAR 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 (calcined or uncalcined)* **PITCH PRILL**

^{*} When loaded and transported under the provisions of the IMSBC Code.

PULP WOOD PYRITES, CALCINED (calcined pyrites) RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non-fissile or fissile-excepted UN 2912 RADIOACTIVE MATERIAL. SURFACE CONTAMINATED OBJECTS (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 (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.

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 are 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 MHB 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

