Subject

Regarding amendments of IBC Code which will enter into force from 1 June 2014

ClassNK

Technical Information

No. TEC-0983
Date 14 March 2014

To whom it may concern

Amendments to the IBC Code (MSC340(91)/MEPC225(64)), which are applicable to chemical tankers, will enter into force from 1 June 2014. In the new amendments, a part of the contents in Chapters 17, 18 and 19 will be revised. A brief overview of each chapter and the main focus of the amendments are summarized below. In addition, a summary table of new cargoes and existing cargoes, the requirements of which have been revised, has been prepared as a reference as shown in attachment 1.

[Overview of Amended Chapters]
Chapter 17: Summary of minimum requirements for products to which the IBC Code applies
Chapter 18: List of products to which the IBC Code does not apply
Chapter 19: Comparison table of Index names and Product names to which the IBC Code applies

[Main focus]
1. New entry of some products which were assessed since the last amendments of 2009 (for Chapters 17, 18, and 19)
2. Revision of minimum requirements for some existing cargoes (for Chapter 17 only)
   - Addition of requirements for electrical equipment which had been blank (for columns i' and i")
     e.g.) Alkanes (C6-C9): Blank→Temperature classes (i') T3, Apparatus group (i") IIA
   - Revision of requirements other than electrical equipment (Ship Type, Special requirements, etc.)

Due to the revision of minimum requirements as mentioned above, any countermeasures such as the omission of target cargoes or changes in tank group on the certificate, or the replacement of instruments may be required for a few ships carrying them by the date of entry into force. In this regard, ClassNK is investigating these items for each ship and will individually contact owners or management companies of ships concerned for which any countermeasures is required.

On the other hand, new certificates (i.e. certificate describing new resolution number) will be issued for ships which are not required to take any countermeasures described above and sent to each owner or management company in order from the ClassNK Head Office by the middle of May in line with the effective guidelines for the issuance of the certificates.

(To be continued)

In addition, since new certificates will become effective from the date of entry into force (1 June 2014), existing certificates will still remain valid and need to be provided onboard ship until then. You are kindly requested to address the exchange of certificates on board carefully. After the date of entry into force, we would appreciate it if you could send the invalid certificate to the following department at Head Office at your convenience or hand it over to the attending surveyor at the next scheduled periodical or occasional survey.

The BCH Code will not be amended at this time. Therefore, ships constructed before 1 July 1986 are not subject to the above changes.

For any questions about the above, please contact:

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Attachment:

1. Summary table of new and existing cargoes, the requirements of which have been revised

Summary of Revised Minimum Requirements in Chapter 17 &18

a	c	d	e	f	g	h	i			j	k	l	n	Special Requirements
							i'	i''	i'''					
(Polyisobutene) amino products in alphatic hydrocarbons	Y	S/P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
1,1-Dichloropropane							T4	IIA						
1,3,5-Trioxane							T2	IIB						
1,3-Cyclopentadiene dimer (molten)							T1	IIB						
1,3-Pentadiene		P→S/P					T1	II A						
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	Y	S/P	2	2G	Cont	Inert	T3	II B	No	C	F-T	A B C	Yes	15.12 15.13 15.17 15.19
1,6-Dichlorohexane									No→ Yes					
2-Butoxyethanol(58%)/Hyperbranched polyesteramide(42%) (mixture)	Y	S/P	2	2G	Cont	No			Yes	C	T	A C	No	15.12.3 15.12.4 15.19
2-Ethoxyethyl acetate							T2	IIA						
2-Ethyl-3-propylacrolein							T3							
2-Ethylhexylamine							T3	IIA						
2-Methyl-2-hydroxy-3-butyne							T3							
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	Z	S	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19
2-Methylpyridine							T1	IIA						
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution	Y	S/P	3	2G	Open	No		NF		O	No	None	No	15.19.6
3,4-Dichloro-1-butene							T1	IIA						
3-Methoxy-1-butanol							T2	IIA						
3-Methylpyridine							T1	IIA						
4-Methylpyridine							T1	IIA						

Acrylic acid / ethenesulfonic acid copolymer with phosphonate groups, sodium salt solution	Z	P	3	2G	Open	No			Yes	O	No	A B C	No	
Alcohols (C12+), primary, linear	Y	S/P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6 16.2.9
Alkanes (C10-C26), linear and branched (flashpoint≦60℃)	Y	S/P	3	2G	Cont	No	T3	II A	No	R	F	A B C	No	15.19.6
Alkanes (C6-C9)							T3	IIA						
Alkanes(C10-C26), linear and branched, (flashpoint >60°C)	Y	S/P	3	2G	Open	No			Yes	O	No	A B C	No	15.19.6
Alkenoic acid, polyhydroxy ester borated	Y	S/P	2	2G	Cont	No			Yes	R	T	A B C	No	15.12.3 15.12.4 15.19.6 16.2.6
Alkyl (C18+) toluenes	Y	S/P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.9
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase	Y	S/P	3	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase	Y	S/P	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6
Alkyl (C3-C4) benzenes							T4	IIA						
Alkyl (C8-C9) phenylamine in aromatic solvents							T4	IIB						
Alkyl acrylate-vinylpyridine copolymer in toluene							T4	IIB						
Alkyl(C12-C16) propoxyamine ethoxylate	X	S/P	2	2G	Cont	No			Yes	C	T	A C	Yes	15.12 15.17 15.19 16.2.6
Alkyl(C18-C28)toluenesulfonic acid	Y	S/P	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.11.2~15.11.4 15.11.6~15.11.8 15.12 15.17 15.19 16.2.6 16.2.9
Alkyl(C18-C28)toluenesulfonic acid, calcium salts, borated	Y	S/P	3	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6
alpha-Methylbenzyl alcohol with acetophenone (15% or less)	Y	S/P	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6 16.2.9
alpha-Olefins (C6-C18) mixtures							T4	IIA						

alpha-Pinene							T3	IIA						
Aluminium chloride/Hydrogen chloride solution	Y	S/P	2	2G	Cont	No		NF		C	T	None	Yes	15.11 15.12 15.17 15.19
Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	Y	S/P	2	2G	Cont	No		NF		C	T	None	Yes	15.12 15.17 15.19
Ammonium chloride solution (less than 25%)	Z	S/P	3	2G	Open	No		NF		O	No	None	No	
Ammonium sulphide solution (45% or less)							T4	IIB						
Amyl acetate (allisomers)							T2	IIA						
Amyl alcohol, primary							T2	IIA						
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 -120℃)							T4	IIA						
beta-Pinene							T4	IIB						
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flashpoint >60°C (>25% but <99% by volume)	X	S/P	2	2G	Cont	No			Yes	C	T	A B C	No	15.12 15.17 15.19.6
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flashpoint ≦60°C (>25% but <99% by volume)	X	S/P	2	2G	Cont	No	T3	II A	No	C	F-T	A B C	No	15.12 15.17 15.19.6
Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)	X	S/P	2	2G	Cont	No			Yes	C	T	A B C	No	15.12 15.17 15.19.6
Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume)	X	S/P	2	2G	Cont	No			Yes	C	T	A B C	No	15.12 15.17 15.19.6
Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume)	X	S/P	2	2G	Cont	No	T3	II A	No	C	F-T	A	No	15.12 15.17 15.19.6
Bis(2-ethylhexyl) terephthalate	Y	S/P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6

Butyl acetate (all isomers)							T2	IIA						
Butyl butyrate (all isomers)							T1	IIA						
Butyl methacrylate							T1							
Butylamine (all isomers)							T2	IIA						
Butylbenzene (all isomers)							T4	IIA						
Calcium alkaryl sulphonate (C11-C50)	Z	S/P	3	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19
Calcium alkyl (C10-C28) salicylate	Y	S/P	2	2G	Cont	No			Yes	R	T	A B C	No	15.12.3 15.12.4 15.19.6 16.2.9
Calcium long-chain alkyl (C18-C28) salicylate	Y	S/P	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6 16.2.9
Calcium long-chain alkyl phenate sulphide (C8-C40)		P→S/P												15.19.6 16.2.6 16.2.9 → 15.19.6 16.2.6
Camelina oil	Y	S/P	2k	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Carbon disulphide						Inert + Pad								
Cashew nut shell oil (untreated)		S→S/P												
Cesium formate solution	Y	S/P	3	2G	Open	No		NF		O	No	None	No	15.19.6
Chlorohydrins (crude)							T3							
Chlorotoluenes (mixed isomers)							T4	IIA						
Cycloheptane							T4	IIA						
Cyclohexane							T3	IIA						
Cyclohexyl acetate							T4	IIA						
Cyclopentane							T2	IIA						

Cyclopentene							T2	IIA						
Decahydronaphthalene							T3	IIA						
Decene							T3	IIA						
Decyl/Dodecyl/Tetradecyl alcohol mixture	Y	S/P	2	2G	Cont	No			Yes	R	T	A B C	No	15.12.3 15.12.4 15.19.6 16.2.9
Diacetone alcohol							T1	IIA						
Dialkyl (C9-C10) phthalates	Y	S/P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Dialkyl thiophosphates sodium salts solution	Y	S/P	2	2G	Cont	No			Yes	R	T	A C	No	15.12.3 15.12.4 15.19.6 16.2.9
Dibutyl terephthalate	Y	P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.9
Dichloropropene/Dichloropropane mixtures							T2	IIA						
Dicyclopentadiene, Resin Grade, 81-89%	Y	S/P	2	2G	Cont	Inert	T2	II B	No	C	F-T	A B C	Yes	15.12 15.13 15.17 15.19
Diethylbenzene							T2	IIA						
Diisobutyl ketone							T2	IIA						
Diisobutylamine							T4	IIB						
Diisobutylene							T2	IIA						
Dimethylamine (greater than 55% but not greater than 65%)							T2	IIB						
Dimethylamine solution (greater than 45% but not greater than 55%)							T2	IIB						
Di-n-propylamine							T3	IIB						
Dipentene							T3	IIA						
Dodecane (all isomers)							T3	IIA						

Dodecyl/Octadecyl methacrylate mixture			3→2											
Epichlorohydrin							T2							
Ethoxylated tallow amine (> 95%)	X	S/P	2	2G	Cont	Inert			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6 16.2.9
Ethyl acetate							T2	IIA						
Ethyl amyl ketone							T2	IIA						
Ethyl butyrate							T4	IIA						
Ethyl propionate							T1	IIA						
Ethyl tert-butyl ether							T2	IIB						
Ethyl toluene							T4	IIA						
Ethyl-3-ethoxypropionate							T2	IIA						
Ethylamine solutions (72% or less)							T2	IIA						
Ethylbenzene							T2	IIA						
Ethylcyclohexane							T4	IIA						
Ethylene glycol monoalkyl ethers							T2	IIB						
Ethylidene norbornene							T3	IIB						
Formic acid (85% or less acid)	Y	S/P	3	2G	Cont	No			Yes	R	T (g)	A	Yes	15.11.2~15.11.4 15.11.6~15.11.8 15.12.3~15.12.4 15.19.6 16.2.9
Formic acid (over 85%)	Y	S/P	3	2G	Cont	No	T1	II A	No	R	F-T (g)	A	Yes	15.11.2~15.11.4 15.11.6~15.11.8 15.12.3~15.12.4 15.19.6 16.2.9

Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	Z	S/P	3	2G	Cont	No			Yes	R	T (g)	A C	No	15.11.2 15.11.3 15.11.4 15.11.6 15.11.7 15.11.8 15.12.3 15.12.4 15.19.6
Grape Seed Oil	Y	S/P	2k	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Heptane (all isomers)							T3	IIA						
Heptanol (all isomers) (d)							T3	IIA						
Heptene (all isomers)							T4	IIA						
Hexamethylenediamine (molten)												C→ AC		15.12 15.17 15.18 15.19.6 16.2.9 →15.12 15.17 15.18 15.19 16.2.9
Hexamethyleneimine							T4	IIB						
Hexane (all isomers)							T3	IIA						
Hexene (all isomers)							T3	IIA						
Hexyl acetate							T2	IIA						
Isoamyl alcohol							T2	IIA						
Iso-and cyclo-alkanes (C10-C11)							T3	IIA						
Iso-and cyclo-alkanes (C12+)							T3	IIA						
Isobutyl alcohol							T2	IIA						
Isobutyl formate							T4	IIA						
Isobutyl methacrylate							T2	IIA						
Isopropyl acetate							T1	IIA						
Isopropyl ether							T2	IIA						

Isopropylamine (70% or less) solution							T2	IIA						
Isopropylcyclohexane							T4	IIA						
Jatropha oil	Y	P	2k	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Ligninsulphonic acid, magnesium salt solution	Z	P	3	2G	Open	No			Yes	O	No	A C	No	
Maleic anhydride-sodium allylsulfonate copolymer solution	Z	P	3	2G	Open	No			Yes	O	No	A B C	No	
m-Chlorotoluene							T4	IIA						
Metam sodium solution			1→2		Open→ Cont					O→C	No→T		No→ Yes	15.19 16.2.9 →15.12 15.17 15.19
Methacrylonitrile							T1	IIA						
Methyl acetate							T1	IIA						
Methyl alcohol							T1	IIA						
Methyl amyl ketone							T2	IIA						
Methyl butyl ketone							T2	IIA						
Methyl butynol							T4	IIB						
Methyl butyrate							T4	IIA						
Methyl ethyl ketone							T1	IIA						
Methyl formate							T1	IIA						
Methyl isobutyl ketone							T1	IIA						

Methyl tert-butyl ether							T1	IIA						
Methylamine solutions (42% or less)							T2	IIA						
Methylamyl acetate							T2	IIA						
Methylamyl alcohol							T2	IIA						
Methylbutenol							T4	IIA						
Methylcyclohexane							T3	IIA						
Methylcyclopentadiene dimer							T4	IIB						
Myrcene							T3	IIA						
N,N-Dimethylcyclohexylamine							T3	IIB						
n-Alkanes (C10+)							T3	IIA						
n-Alkanes (C9-C11)	Y	S/P	3	2G	Cont	No	T3	II A	No	R	F-T	A B C	No	15.12.3 15.12.4 15.19.6
n-Amyl alcohol							T2	IIA						
n-Butyl propionate							T2	IIA						
N-Ethylcyclohexylamine							T3	IIB						
Nitroethane							T2							
Nitroethane(80%)/Nitropropane(20%)							T2							
Nitroethane, 1-Nitropropane (each 15% or more) mixture							T2	IIB						

Nitropropane (60%)/Nitroethane (40%) mixture							T4	IIB						
N-Methylaniline	Y	S/P	2	2G	Cont	No			Yes	R	T	A B C	No	15.12.3 15.12.4 15.19.6
Nonane (all isomers)							T4	IIA						
Nonene (all isomers)							T3	IIA						
n-Pentyl propionate							T4	IIA						
n-Propyl acetate							T1	IIA						
n-Propyl alcohol							T2	IIA						
o-Chlorotoluene							T1	IIA						
Octamethylcyclotetrasiloxane	Y	P	2	2G	Cont	No	T2	II A	No	R	F	A C	No	15.19.6 16.2.9
Octane (all isomers)							T3	IIA						
Octene (all isomers)							T3	IIA						
Octyl aldehydes			3→2				T4	IIB						
Olefin Mixture (C7-C9) C8 rich, stabilised	X	S/P	2	2G	Cont	No	T3	II B	No	R	F	A B C	No	15.13 15.19.6
Olefin mixtures (C5-C15)							T3	IIA						
Olefin mixtures (C5-C7)							T3	IIA						
Palm kernel fatty acid distillate	Y	S/P	2	2G	Cont	No			Yes	R	T	A B C	No	15.19.6 16.2.6 16.2.9
Paraldehyde-ammonia reaction product							T4	IIB						

p-Chlorotoluene							T1	IIA						
p-Cymene							T2	IIA						
Pentane (all isomers)							T2	IIA						
Pentene (all isomers)							T3	IIA						
Phosphate esters, alkyl (C12-C14) amine							T4	IIB						
Phosphorus, yellow or white						Inert→ Pad +(vent or inert)								
Poly (4+) isobutylene (MW＞224)	X	P	2	2G	Open	No			Yes	O	No	A B	No	15.19.6 16.2.6 16.2.9
Poly(ethylene glycol) methylbutenyl ether (MW＞1000)	Z	P	3	2G	Open	No			Yes	O	No	A C	No	16.2.9
Polyalkyl (C18-C22) acrylate in xylene							T4	IIB						
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	Y	P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Polyisobutylene (MW≦224)	Y	P	2	2G	Open	No			Yes	O	No	A B	No	15.19.6 16.2.9
Polyolefin amide alkeneamine polyol	Y	P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6 16.2.9
Polyolefinamine in alkyl (C2-C4) benzenes							T4	IIB						
Polyolefinamine in aromatic solvent							T4	IIB						

Polysiloxane							T4	IIB						
Propionaldehyde							T4	IIB						
Propylbenzene (all isomers)							T2	IIA						
Propylene glycol methyl ether acetate							T2	IIA						
Propylene glycol monoalkyl ether							T3	IIA						
Propylene tetramer							T3	IIA						
Propylene trimer							T3	IIA						
sec-Amyl alcohol							T2	IIA						
Sodium bromide solution (less than 50%)	Y	S/P	3	2G	Open	No		NF		R	No	None	No	15.19.6
Sodium hydrosulphide / Ammonium sulphide solution							T4	IIB						
Sodium hydrosulphide solution (45% or less)						Pad→ Vent or pad (gas)								
Sodium methylate 21-30% in methanol														15.12 15.17 15.19 16.2.6 (only if ＞28%), 16.2.9
Soybean oil fatty acid methyl ester	Y	P	2	2G	Open	No			Yes	O	No	A B C	No	15.19.6 16.2.6
Sulphur (molten)						Pad→ Vent or pad (gas)								

Tall oil pitch					Cont→ Open					C→O	T→No		Yes→ No	15.12 15.17 15.19 16.2.6 16.2.9 →15.19.6 16.2.6
Tall oil soap, crude	Y	S/P	2	2G	Cont	No			Yes	C	T	A B C	Yes	15.12 15.17 15.19 16.2.6
Tall oil, crude					Cont→ Open					C→O	T→No		Yes→ No	15.12 15.17 15.19 16.2.6 →15.19.6 16.2.6
tert-Amyl alcohol							T2	IIA						
tert-Amyl ethyl ether	Z	P	3	2G	Cont	No	T3	II A	No	R	F	A B C	No	15.19.6
tert-Amyl methyl ether							T3→ T2	IIB						
tert-Butyl alcohol							T1	IIA						
Toluene							T1	IIA						
Triethylphosphite							T3	IIA						
Trimethyl benzene (all isomers)							T1	IIA						
Trimethylamine solution (30% or less)							T3	IIB						
Turpentine							T1	IIA						
Vinyltoluene							T1							
White spirit, low (15-20%) aromatic							T3	IIA						
Wood lignin with sodium acetate/oxalate	Z	S/P	3	2G	Open	No		NF		O	No	None	No	
Xylenes							T1	IIA						

Calcium carbonate slurry	OS													
Glycerol ethoxylated	OS													
Microsilica slurry	OS													
Orange juice (concentrated)	OS													
Orange juice (not concentrated)	OS													
Potassium chloride solution (less than 26%)	OS													
Sodium bicarbonate solution (less than 10%)	OS													