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Ref. T4/7.01 MSC.1/Circ.1325 10 June 2009

MISSING INFORMATION ON APPARATUS GROUPS IN COLUMN I" OF CHAPTER 17 OF THE IBC CODE

- The Maritime Safety Committee, at its eighty-sixth session (27 May to 5 June 2009), noting that the provisions in paragraphs 1.2.3 and 4.1.4 of the Revised standards for the design, testing and location of devices to prevent the passage of flame into cargo tanks in tankers (MSC/Circ.677), needed clarification to ensure that the maximum experimental safe gap (MESG) value for the medium to be used to test the device is appropriate for the product certified to be carried in the tank fitted with such a device, approved the following amendments to MSC/Circ.677:
 - .1 Paragraph 1.2.3 is replaced with the following:
 - "1.2.3 These Standards are intended for devices protecting cargo tanks containing crude oil, petroleum products and flammable chemicals. In the case of the carriage of chemicals, the test media referred to in section 3 can be used for products having an MESG of 0.9 mm and greater. However, devices for chemical tankers certified for the carriage of products with an MESG* less than 0.9 mm should be tested with the following media based on the apparatus group assigned as per column i" of the IBC Code, chapter 17:
 - .1 Apparatus Group II B ethylene (MESG = 0.65 mm); and
 - .2 Apparatus Group II C hydrogen (MESG = 0.28 mm)."
- Member Governments are invited to apply the above amendments to the Revised standards, as promulgated by MSC/Circ.1324, to ships constructed on or after 1 January 2013 and to ships constructed before 1 January 2013, no later than the first scheduled dry-docking carried out on or after 1 January 2013.
- Attention is drawn to the fact that information on apparatus groups in column i" is missing in relation to a large number of products listed in chapter 17 of the IBC Code, as set out in annex 1. In order to allow sufficient time for the ESPH Working Group to receive and review the aforementioned missing information and to prepare corresponding amendments to the IBC Code, missing data needed to determine the electrical apparatus group should be sent to IMO, in the format specified in annex 2, no later than 31 December 2010.
- 4 Member Governments are invited to bring this circular to the attention of the parties concerned.

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^{*} Reference is made to IEC – Publication 79-1.

ANNEX 1

LIST OF PRODUCTS THAT HAVE A "NO" IN COLUMN i" AND DO NOT HAVE AN ENTRY IN COLUMN i" AND IS INDICATED AS BEING FLAMMABLE VAPOUR IN COLUMN "K" OF CHAPTER 17 OF THE IBC CODE

Alkanes (C6-C9)

Alkyl acrylate-vinylpyridine copolymer in toluene

Alkyl (C3-C4) benzenes

Alkyl(C8-C9) phenylamine in aromatic solvents Ammonium sulphide solution (45% or less)

Amyl acetate (all isomers)

n-Amyl alcohol Amyl alcohol, primary sec-Amyl alcohol tert-Amyl alcohol tert-Amyl methyl ether

Aviation alkylates (C8 paraffins and iso-paraffins

BPT 95-120°)

Butyl acetate (all isomers)

tert-Butyl alcohol

Butylamine (all isomers)
Butylbenzene (all isomers)
Butyl butyrate (all isomers)
n-Butyl propionate

m-Chlorotoluene o-Chlorotoluene p-Chlorotoluene

Chlorotoluenes (mixed isomers)

Cycloheptane Cyclohexane Cyclohexyl acetate

1,3-Cyclopentadiene dimer(molten)

Cyclopentane Cyclopentene p-Cymene

Decahydronaphthalene

Decene

Diacetone alcohol 3,4-Dichloro-1-butene 1,6-Dichlorohexane 1,1-Dichloropropane

Dichloropropene/Dichloropropane mixtures

Diethylbenzene Diisobutylamine Diisobutylene Diisobutyl ketone

Dimethylamine solution(greater than 45% but not greater

than 55%)

Dimethylamine solution(greater than 55% but not greater

than 65%)

N,N-Dimethylcyclohexylamine

Dipentene
Di-n-propylamine
Dodecane (all isomers)
2-Ethoxyethyl acetate

Ethyl acetate

Ethylamine solutions (72% or less)

Ethyl amyl ketone Ethylbenzene Ethyl tert-butyl ether Ethyl butyrate Ethylcyclohexane N-Ethylcyclohexylamine

Ethylene glycol monoalkyl ethers Ethyl-3-ethoxypropionate 2-Ethylhexylamine

Ethylidene norbornene Ethyl propionate Ethyl toluene

Heptane (all isomers)
Heptanol (all isomers) (d)
Heptene (all isomers)
Hexamethyleneimine
Hexane (all isomers)
Hexene (all isomers)
Hexyl acetate
Isoamyl alcohol
Isobutyl alcohol

Isobutyl formate
Isopropyl acetate

Isopropylamine(70% or less) solution

Isopropylcyclohexane
Isopropyl ether
Liquid chemical wastes
Methacrylonitrile
3-Methoxy-1-butanol
Methyl acetate
Methyl alcohol

Methylamine solutions (42% or less)

Methylamyl acetate
Methylamyl alcohol
Methyl amyl ketone
Methylbutenol
Methyl tert-butyl ether
Methyl butyl ketone
Methylbutyn al

Methylbutynol Methyl butyrate Methylcyclohexane

Methylcyclopentadiene dimer

Methyl ethyl ketone Methyl formate Methyl isobutyl ketone 2-Methylpyridine 3-Methylpyridine 4-Methylpyridine Nitropropane(60%)/Nitroethane(40%) mixture

Nonane (all isomers)
Nonene (all isomers)
Octane (all isomers)
Octene (all isomers)
Olefin mixtures(C5-C7)
Olefin mixtures(C5-C15)
alpha-Olefins(C6-C18) mixtures
Paraldehyde-ammonia reaction product

1,3-Pentadiene
Pentane (all isomers)
Pentene (all isomers)
n-Pentyl propionate
alpha-Pinene
beta-Pinene

Polyalkyl (C18-C22)acrylate in Xylene Polyolefinamine in alkyl(C2-C4)benzenes Polyolefinamine in aromatic solvent

Polysiloxane Propionaldehyde n-Propyl acetate n-Propyl alcohol

Propylbenzene (all isomers)

Propylene glycol methyl ether acetate

Propylene glycol monoalkyl ether

Propylene tetramer Propylene trimer

Sodium hydrosulphide/Ammnonium sulphide solution

Toluene

Triethyl phosphite

Trimethylamine solution (30% or less) Trimethylbenzene (all isomers)

1,3,5-Trioxane Turpentine

White spirit, low (15-20%) aromatic

Xylenes

Chapter 18 Products considered as Flammable ,< 60°C

Acetone

Alcoholic beverages, n.o.s.

n-Butyl alcohol sec-Butyl alcohol Ethyl alcohol Isopropyl alcohol Methyl propyl ketone

Tetraethyl silicate monomer/oligomer(20% in ethanol)

ANNEX 2

INFORMATION REQUESTED TO DETERMINE THE ELECTRICAL APPARATUS GROUP

	Units	QUAL	Lower value	Upper value
Flash Point (cc) (°C)				
Boiling Point (°C)				
Melting Point/Pour Point (°C)				
AutoIgnitionTemp (°C)				
Carriage Temperature (°C)				
Unloading Temperature (°C)				
* MESG (mm)				

^{*} Criteria for assigning column 'i' Electrical Equipment – IBC Code, chapter 21.4.9.