



Technical Information

Code: **TI-19-11**

Date: **25.12.2019**

Subject: Amendments to IBC/BCH Code and MARPOL Annex II, EIF on 1st January 2021

Amendments to IBC code (by MSC.460(101) & MEPC.318(74)), BCH code (by MSC.463(101) & MEPC.319(74)) and MARPOL Annex II (by MEPC.315(74)) will enter into force on 01.01.2021, and all applicable ships should be complied with revised requirement prior to date of EIF.

Application:

The amendments applied to all ships which the IBC/BCH Code applied. Ships regardless of size, including those of less than 500 gross tonnage, engaged in the carriage of bulk cargoes of dangerous chemicals or noxious liquid substances (NLS), other than petroleum or similar flammable products as follows:

1. Products having significant fire hazards in excess of those of petroleum products and similar flammable products;
2. Products having significant hazards in addition to or other than flammability.

(IBC code Chapter 1, Reg.1.1)

Compliance Dates:

This amendments will be enter into force on or after 1 January 2021.

Descriptions & revised requirements for ships:

❖ IBC/BCH Code

- ✓ **Special requirements (O) Hydrogen sulphide (H₂S) detection equipment for bulk liquids** (chapter 15-15 replace by following :)

Hydrogen sulphide (H₂S) detection equipment shall be provided on board ships carrying bulk liquids prone to H₂S formation. It should be noted that scavengers and biocides, when used, may not be 100% effective in controlling the formation of H₂S. Toxic vapour detection instruments complying with the requirement in 13.2.1 of the Code for testing for H₂S may be used to satisfy this requirement."

As special requirement for carriage of the following products:

- Sodium hydrosulphide / Ammonium sulphide solution
- Sodium hydrosulphide solution (45% or less)

13.2.1 Ships carrying toxic or flammable products or both shall be equipped with at least two instruments designed and calibrated for testing for the specific vapours in question. If such instruments are not capable of testing for both toxic concentrations and flammable concentrations, then two separate sets of instruments shall be provided.

✓ **Operational requirements: (new provision of chapter 16.2.7 has been added)**

Where column o in the table of chapter 17 refers to this paragraph, the cargo is subject to the prewash requirements in regulation 13.7.1.4 of Annex II of MARPOL. (Replaced by Res.MEPC.318(74))

List of persistent floating products as identified by 16.2.7 in column ‘o’ of Chapter 17 of IBC Code as follow:

No.	Product name	No.	Product name
1	Acid oil mixture from soyabean, corn (maize) and sunflower oil refining	24	Palm kernel fatty acid distillate
2	Camelina oil	25	Palm kernel oil
3	Cashew nut shell oil (untreated)	26	Palm kernel olein
4	Castor oil	27	Palm mid-fraction
5	Cocoa butter	28	Palm oil
6	Coconut oil	29	Palm olein
7	Coconut oil fatty acid	30	Palm stearin
8	Corn Oil	31	Paraffin wax, highly-refined
9	Cotton seed oil	32	Rapeseed oil
10	Fatty acids, (C12+)	33	Rapeseed oil (low erucic acid containing less than 4% free fatty acids)
11	Fish oil	34	Rice bran oil
12	Grape Seed Oil	35	Safflower oil
13	Groundnut oil	36	Shea butter
14	Illipe oil	37	Soyabean oil
15	Jatropha oil	38	Sunflower seed oil
16	Lard	39	Tallow
17	Mango kernel oil	40	Tallow fatty acid
18	Non-edible industrial grade palm oil	41	Tung oil
19	Olive oil	42	Used cooking oil (Triglycerides, C16-C18 and C18 unsaturated) (m) (n)
20	Vegetable acid oils (m)	43	Vegetable fatty acid distillates (m)
21	Vegetable oil mixtures, containing less than 15% free fatty acid (m)	44	Palm acid oil
22	Palm fatty acid distillate	45	Palm kernel acid oil
23	Palm kernel stearin		

✓ **Summary of minimum requirements (Chapter 17 of IBC Code)**

Due to the revision of criteria for assigning carriage requirements for products (Chapter 21), the carriage requirements for all products have been reassessed, and most of them have been revised. Summary of the revised carriage requirements is shown in Attachment 1 for your reference.

✓ **Products to which the Code does not apply (Chapter 18)**

The following are products which have been reviewed for their safety and pollution hazards and determined not to present hazards to such an extent as to warrant application of the Code.

No.	Product name	Pollution category	No.	Product name	Pollution category
1	Acetone	Z	12	Non noxious liquid, (12) n.o.s. (trade name, contains) Cat. OS	OS
2	Alcoholic beverages, n.o.s.	Z	13	Orange juice (concentrated)	OS
3	Apple juice	OS	14	Orange juice (not concentrated)	OS
4	n-Butyl alcohol	Z	15	Potassium chloride solution (less than 26%)	OS
5	sec-Butyl alcohol	Z	16	Propylene glycol	Z → OS
6	Isopropyl alcohol	Z	17	Sodium acetate solutions	Z
7	Calcium carbonate slurry	OS	18	Sodium bicarbonate solution (less than 10%)	OS
8	Clay slurry	OS	19	Sorbitol solution	OS
9	Coal slurry	OS	20	Sulphonated polyacrylate solution	Z
10	Ethyl alcohol	Z	21	Tetraethyl silicate monomer/oligomer (20% in ethanol)	Z
11	Noxious liquid, (11) n.o.s. (trade name, contains) Cat. Z	Z	22	Glucose solution	OS
23	Glycerol ethoxylated	OS	28	Triethylene glycol	Z → OS
24	Hydrogenated starch hydrolysate	OS	29	Vegetable protein solution (hydrolysed)	OS
25	Kaolin slurry	OS	30	Water	OS
26	Lecithin	OS	31	Microsilica slurry	OS
27	Maltitol solution	OS	32	Molasses	OS

❖ MARPOL 73/78 Annex II

✓ Prewash procedures

Persistent floaters with a viscosity equal to or greater than 50 mPa·s at 20°C and/or a melting point equal to or greater than 0°C, shall be treated as solidifying or high-viscosity substances for the purposes of the prewash and a prewash procedure shall be applied in certain area (e.g. North West European waters)

“Persistent floater” has been defined in amendment, newly.

Where it is determined that the use of small amounts of cleaning additives would improve and maximize the removal of cargo residues during a prewash, then this should be done in consultation and with prior agreement from the reception facility.

✓ Standard format for the procedures and arrangements manual (P&A manual)

This section should contain instructions on how to deal with tank washings of substances identified by the presence of '16.2.7' in column 'o' of chapter 17 of the IBC Code and the latest version of the MEPC.2/Circular, when operating in the areas specified in regulation 13.9 of Annex II.

The revised standard format shall be approved and provided onboard prior to EIF

❖ IBC Code Certification:

The description of the International Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk will be changed for most of ships (e.g. deletion of some products from certificate or modify equipment of ship) due to, the carriage requirement for most products have been revised as mentioned.

For any questions about this Technical Information, please contact:

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