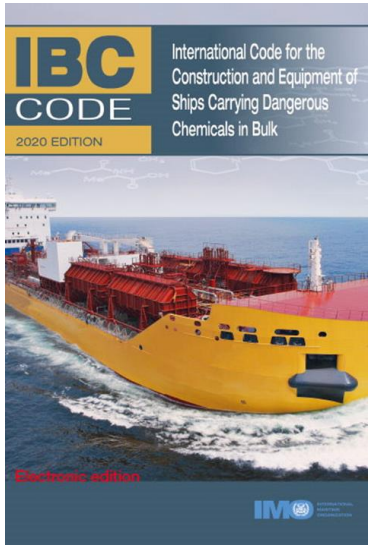
# Amendments to the IBC Code and MARPOL Annex II

ODFJELL

# New Amendments – *Enter into force: January 1, 2021*

**New IBC Code:**

- Reclassification of products
- Revised carriage requirements / New Certificate of Fitness (CoF)




**Amended MARPOL Annex II:**

- Handling of cargo residues and tank washings of persistent floating products
- Revised Procedure & Arrangement (P&A) Manual

# Main Impacts

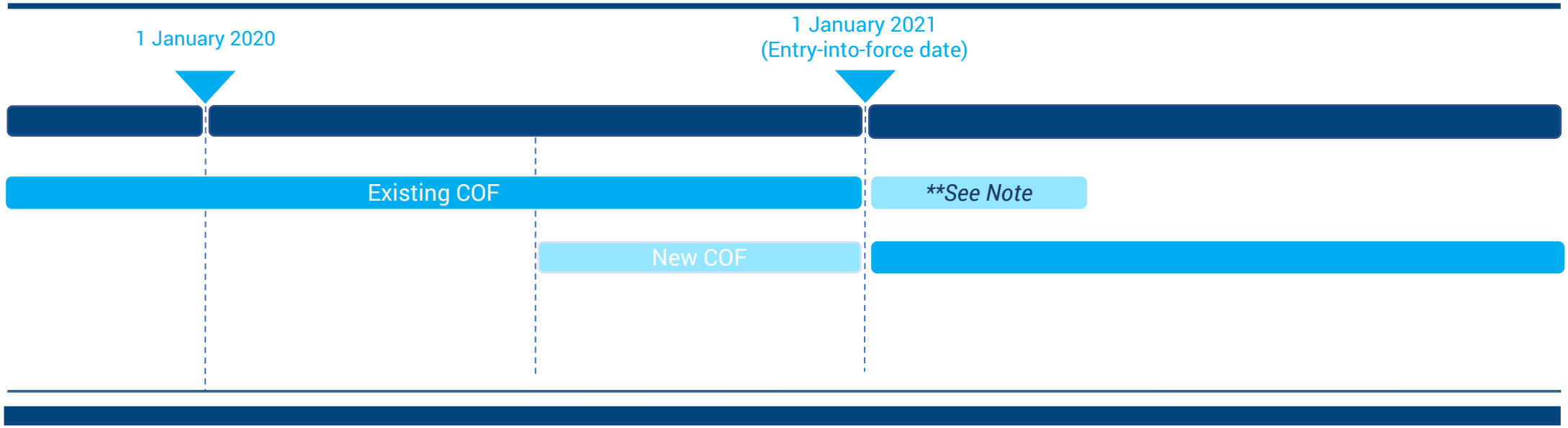
## New IBC Code:

- Certificate of Fitness (CoF) – Most of the changes are insignificant, but there will be products in the previous CoF that will no longer be allowed to carry after January 1, 2021
- Reclassification of products - The handling and safety requirements will change for majority of the Product names
  - New Toxic products
  - New requirements for H2S Detection Equipment for vessels carrying bulk liquids prone to H2S formation
  - Products moved from Chapter 18 to Chapter 17
  - New Ship type requirements for many products
  - New Tank type requirements for some products

## MARPOL Annex II:

- Updated P&A Manual
- Persistent floating products - New prewash requirements in a new special area covering North West Europe
- Waxes - New classification of Waxes
- Energy Rich Fuels – Recategorization from Annex II to Annex I
- MARPOL category – Several products will have a new category (X, Y, Z)

# Timeline




***Note:*** *"When a cargo is loaded prior to the entry-into-force date and unloaded after the entry-into-force date, of the amendments to the IBC Code, the relevant provisions of the IBC Code at the time of loading should be applicable until the cargo has been unloaded."*

----- ***DNV-GL TECHNICAL AND REGULATORY NEWS No. 21/2019 – STATUTORY***

# New Toxic products – Chapter 17 - Column (k)

- In the current IBC Code, there are more than 200 products rated with a “T” or “FT”
- In the new code, additional 200+ will be given a “T” or “FT” rating
- The “T” rating for some of the existing products will be removed
- Effective 1 January 2021, more than 400 products will be rated toxic “T”
- Among these: Methanol, Diethylene Glycol, MIBK, Nonyl alcohol, n-Propyl Alcohol, Octanol

***Note:*** *The changes in Column (k) will not have much impact for Odfjell Tankers as our vessels comply with the design requirements. However, there might be a challenge to obtain equipment for gas detection for some of the products*

# New Requirements For H2S Detection

- A new requirement for gas detection equipment for Hydrogen Sulphide (H2S) for vessels carrying cargoes prone to H2S formation will be included in the IBC Code

***Note:*** *The new requirement will not have much impact, as the equipment used by most owners and managers already comply with the new requirement*

# Cargoes moved from Chapter 18 to Chapter 17

- Calcium nitrate solution (50% or less)
- Diethylene glycol
- Glycerine
- Hexamethylenetetramine solutions
- Hexylene glycol
- Magnesium Hydroxide slurry
- N-Methylglucamine solution (70% or less)
- Methyl propyl ketone
- Polyaluminium chloride solution
- Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)
- Potassium formate solutions
- Propylene carbonate
- Sodium sulphate solutions

# New Ship Type requirements

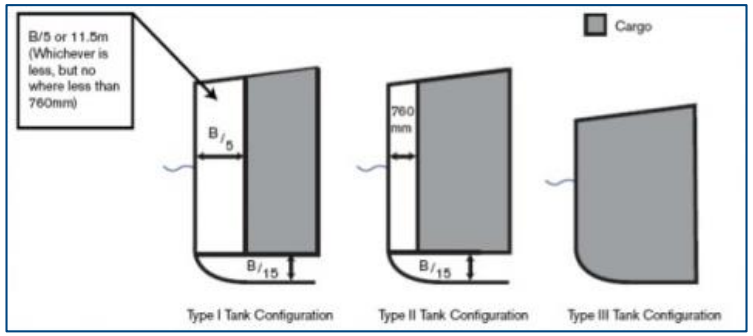
**Following Products will change from ship type 3 to ship type 2:**

- 1,1,1-Trichloroethane
- 1-Phenyl 1 xylyl ethane
- 2,2-Dichloropropionic acid
- 2,6-Diethylaniline
- 2-or 3 Chloropropionic acid
- 2-Methyl 5 ethyl pyridine
- Adiponitrile
- Calcium hydroxide slurry
- Dibutyl hydrogen phosphonate
- Dibutylamine
- Dimethyl succinate
- Dimethylpolysiloxane
- Dipentene
- Dodecylbenzene
- Ethyl amyl ketone
- Ethyl butyrate
- Ethyl tert butyl ether
- Ethyl -3 ethoxypropionate
- Ethylene glycol diacetate
- Ethylene cyanohydrin
- Fluorosilicic acid solution (20 30%)
- Heptene (all isomers)
- Hexanol
- Isoprene
- Latex, ammonia (1% or less) inhibited
- N-Amyl alcohol
- Nitropropane (60%)/Nitroethane (40%) mixture
- Nonanoic acid (all isomers)
- Octanoic acid (all isomers)
- Pentanoic acid
- Pentene (all isomers)
- Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)
- Polyisobutenamine in aliphatic (C10 C14) solvent
- Polysiloxane
- Propionic anhydride
- Sulphuric acid
- Sulphuric acid, spent

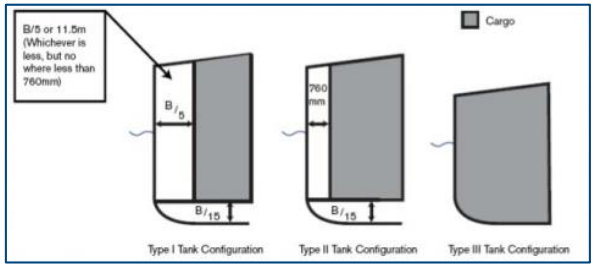
# New Ship Type requirements

**Following Products will change from ship type 2 to ship type 1:**

- Acetone cyanohydrin
- beta Propiolactone
- Carbon disulphide
- **Creosote (coal tar)**
- **Cresols (all isomers)**
- Crotonaldehyde
- Ethylene chlorohydrin
- Lactonitrile solution (80% or less)
- Nitrating acid (mixture of sulphuric and nitric acids)
- Propionitrile
- Sodium dichromate solution (70% or less)
- Trixylyl phosphate



# New Ship Type requirements




**Following Products will change from ship type 1 to ship type 2 or 3:**

- 1,2,3-Trichlorobenzene (molten)
- 1,5,9-Cyclododecatriene
- 2,6-Di tert butylphenol
- Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho isomers)
- Diphenylamine, reaction product with 2,2,4 Trimethylpentene
- Methylcyclopentadienyl manganese tricarbonyl
- N,N-Dimethyldodecylamine
- Tert-Dodecanethiol
- Tricresyl phosphate (containing 1% or more ortho isomer)

# New Tank Type requirements

**Following Products will change Tank type 2G to Tank type 1G:**

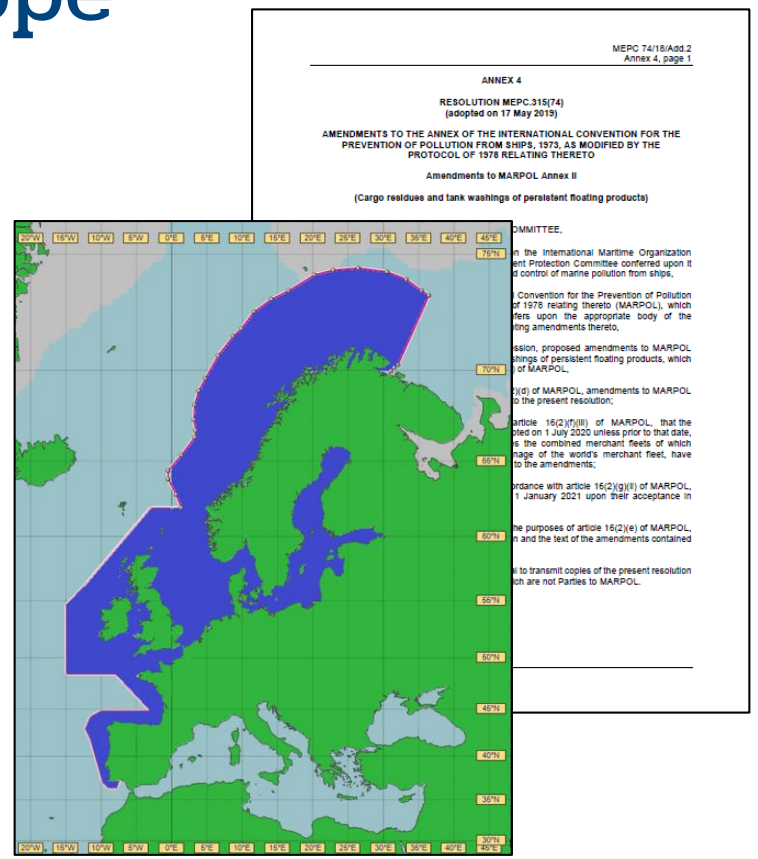
- Acetone cyanohydrin
- Crotonaldehyde
- Nitrating acid (mixture of sulphuric and nitric acids)
- Sodium dichromate solution (70% or less)

**Following Products will change Tank type 1G to Tank type 2G:**

- Hexamethylene diisocyanate
- Methylcyclopentadienyl manganese tricarbonyl
- Vinyl ethyl ether

# New prewash requirements – A new special area covering North West Europe

- Persistent floating products including Paraffin wax, Vegetable- and Animal oils will require prewash after discharge in North West Europe and Baltic Sea
- These products will be identified in Chapter 17 of the IBC Code with a new paragraph 16.2.7 in column “o”.
- Background for the new rule is that cargo residues has been washing up on ashore in Northern Europe and the Baltic
- IMO Reference: MEPC 74/18/Add.2 / Resolution MEPC.315(74)



MEPC 74/18/Add.2
Annex 4, page 1

ANNEX 4

RESOLUTION MEPC.315(74)
(adopted on 17 May 2019)

AMENDMENTS TO THE ANNEX OF THE INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973, AS MODIFIED BY THE PROTOCOL OF 1978 RELATING THERETO

Amendments to MARPOL Annex II

(Cargo residues and tank washings of persistent floating products)

OMMITTEE,

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Convention for the Prevention of Pollution
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1 January 2021 upon their acceptance in

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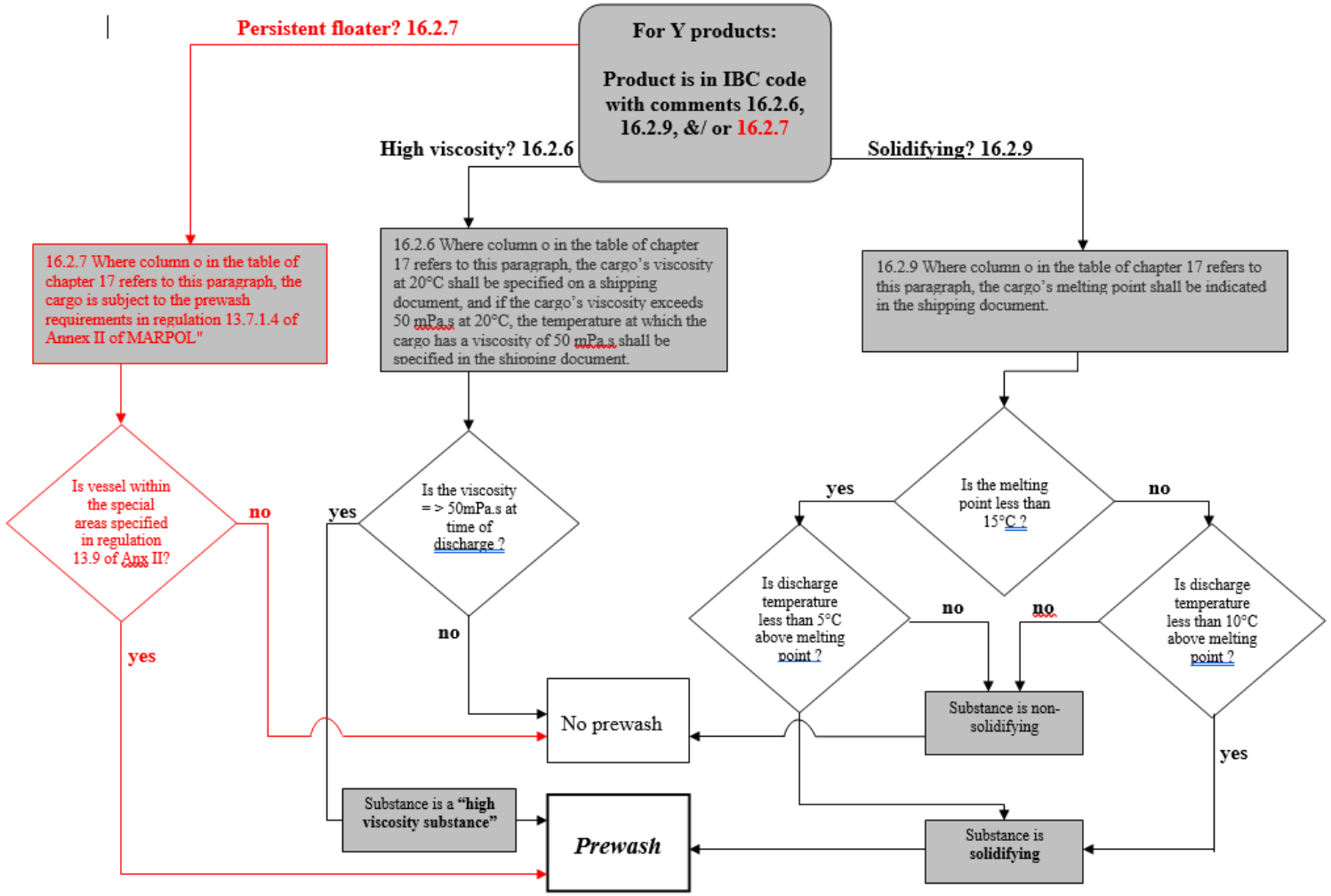
ch are not Parties to MARPOL.

# New prewash requirements - A new special area covering North West Europe



# New Classification of Waxes

**Paraffin wax** Pollution Category Y, Ship Type 2

Will be replaced by: **Paraffin wax, highly-refined** Pollution Category Y, Ship Type 2

**Petrolatum** Pollution Category Y, Ship Type 2

Will be replaced by: **Paraffin wax, semi-refined** Pollution Category X, Ship Type 2

**Waxes** Pollution Category Y, Ship Type 2

Will be replaced by: **Hydrocarbon wax** Pollution Category X, Ship Type 2

# Energy Rich Fuels moved from Annex II to Annex I of MARPOL.

**Following Product Names of "Energy rich Fuels" will be considered as Annex I cargoes starting 1 January 2021:**

- Alkanes (C4-C12) linear, branched and cyclic (containing benzene up to 1%)
- Alkanes (C5-C7), linear and branched
- Alkanes (C9-C24) linear, branched and cyclic with a flashpoint ≤60 60°C
- Alkanes (C9-C24) linear, branched and cyclic with a flashpoint >60 60°C
- Alkanes (C10-C17), linear and branched
- Alkanes (C10-C26), linear and branched with a flashpoint ≤60°C
- Alkanes (C10-C26), linear and branched with a flashpoint >60°C

***Note:*** *Alkanes which are Tripartited and listed in list 2 and 3 of the MEPC list, will remain Annex II. In example Nexbase*

**Some common trade names for these products are:**

- Renewable Naphtha
- Renewable Jet Fuel
- Renewable Diesel
- Green Diesel

# Cargoes with new MAPOL Category

**Following products changing MARPOL cat. Z to Y:**

- Benzene sulphonyl chloride
- Calcium hydroxide slurry
- Dodecylbenzene
- Dodecyl methacrylate
- 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate

**Following product changing MARPOL cat. X to Y:**

- N,N-Dimethyldodecylamine
- Dioctyl phthalate
- Isophorone diisocyanate

**Following products changing MARPOL cat. Y to Z:**

- Ethylene glycol
- Ethylene glycol (>85%)/sodium alkyl carboxylates mixture

**Following product changing MARPOL cat. Y to X:**

- Crotonaldehyde

# Thank you

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