

標 題：

「IBC/BCHコード及びMARPOL
73/78 附属書Ⅱ，付録Ⅱ及びⅢの改正に
ついて」

NK テクニカル インフォメーション

No.79

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船主・造船所各位

拝啓 貴社益々御清栄のこととお慶び申し上げます。

さて、本年開催されましたIMO第27回海洋環境保護委員会（MEPC）及び第57回海上安全委員会（MSC）において、IBCコード（決議MSC 4(48)及びMEPC 19(22)），BCHコード（決議MEPC 20(22)）及びMARPOL 73/78 附属書Ⅱ（決議MEPC 16(22)）の改正（案）が採択され、それぞれ決議MSC 14(57)，MEPC 32(27)，MSC 15(57)，MEPC 33(27)及びMEPC 34(27)として回章されました。

今回の改正は、物質の評価に係わる大幅な改正であり、その内容は主として次の通りであります。

- (1) IBC/BCHコードとMARPOL 73/78 附属書Ⅱの整合をはかった事
- (2) 汚染分類と最低要件の見直しにより要件が変更された事
- (3) 新規査定物質が追加された事

本改正は所定の手続きを経たのち、1990年10月13日に発効する予定で、コールタールの船型要件に関する経過措置を除き、新造船又は就航船を問わず一律に即日実施されます。

つきましては、本改正の実施に先立ち、具体的な改正内容を添付の通りお知らせいたしますから、内容御検討の上、改正発効日以降の貨物積載を御計画されるようお願い申し上げます。

尚、上記に関しまして御不明な点がございましたら、弊会船体部タンカー部門までお問い合わせ下さい。

敬 具

添付： 改正内容

（注）本改正内容につきましては、MEPC 27/16 Corr.1 に基づき分類・整理しております。

改正内容

1. IBC Code (17章)

新規追加物質 (86)	新規物質(76)	新たに17章に入った物質(添付「付録1」参照)
	格上げ物質(10)	18章から17章へ格上げされた物質 (添付「付録1 * 印参照)
格下げ及び 名称変更物質 (22)	格下げ物質(2)	17章から18章へ格下げされた物質 (i) Dodecylbenzene, (ii) Fatty alcohols (C12-C20)
	名称変更物質(20)	(添付「付録2」参照)
改正物質 (延べ161)	汚染分類(19)	(添付「付録3」参照)
	船 型(2)	(i) Creosote (coal tar); (旧) 3 → (新) 2 (ii) alpha-Methylstyrene; (旧) 2 → (新) 3
	電気設備(5)	(i) Carbon disulphide; (旧) T5 → (新) T6 (ii) 1,4-Dioxane; (旧) T4 → (新) T2 (iii) Ethyl methacrylate; (旧) 要件なし → (新) T2 (iv) 2-Methyl-2-hydroxy-3-butyne; (旧) 要件なし → (新) II A (v) Sodium hypochlorite solution, 15% or less; (旧) NF → (新) Yes
	消火剤(78)	消火剤の見直しにより, 消火剤A (耐アルコール泡又は多目的泡) が使用可能となった物質 (添付「付録4」参照)
	材 料(2)	(i) Chloroform; (旧) 要件なし → (新) Z (ii) Urea/Ammonium nitrate solution (containing aqua ammonia); (旧) N4, N7 → (新) N7
	特別要件(55)	溢防止装置の備え付け基準の見直しにより, 特別要件15.19.6 が追加された物質 (添付「付録5」参照)

(注) ()内数字は関連する物質数を示す。

2. BCH Code (VI章)

新規追加物質 (86)	新規物質(76)	新たにVI章に入った物質 (添付「付録1」参照)
	格上げ物質(10)	VII章からVI章へ格上げされた物質 (添付「付録1 * 印参照)
格下げ及び 名称変更物質 (22)	格下げ物質(2)	VI章からVII章へ格下げされた物質 (i) Dodecylbenzene, (ii) Fatty alcohols (C12-C20)
	名称変更物質(20)	(添付「付録2」参照)
改正物質 (延べ155)	汚染分類(19)	(添付「付録3」参照)
	船 型(2)	(i) Creosote (coal tar); (旧) 3 → (新) 2 (ii) alpha-Methylstyrene; (旧) 2 → (新) 3
	電気設備(1)	(i) Carbolic oil; (旧) Sp → (新) St
	消火剤(78)	消火剤の見直しにより, 消火剤A (耐アルコール泡又は多目的泡) が使用可能となった物質 (添付「付録4」参照)
	特別要件(55)	溢出自防止装置の備え付け基準の見直しにより, 特別要件4.14.1が追加された物質 (添付「付録5」参照)

(注) ()内数字は関連する物質数を示す。

3. MARPOL ANNEX II (付録II)

新規追加物質(86)	(添付「付録1」における汚染分類を参照)
改正物質(19)	(添付「付録3」参照)

(注) ()内数字は関連する物質数を示す。

付 録 1

IBC Code 17章 (BCH Code VI章) に新たに入った物質
(* : 18章 / VII章 から 17章 / VI章 へ格上げされた物質)

Products	Poll. Cat.	Hazard	Ship Type
Alcohol (C12-C15) poly(1-3) ethoxylates	A	P	2
Alcohol (C12-C15) poly(3-11) ethoxylates	A	P	2
Alcohol (C6-C17)(secondary) poly(3-6) ethoxylates	A	P	2
Alcohol (C6-C17)(secondary) poly(7-12) ethoxylates	B	P	3
Alkyl benzene sulphonic acid, sodium salt solution	C	P	3
Aluminium chloride (30% or less)/Hydrochloric acid (20% or less) solution	D	S	3
2-Amino-2-methyl-1-propanol (90% or less)	D	S	3
Ammonium thiocyanate (25% or less)/Ammonium thiosulphate (20% or less) solution	(C)	P	3
Ammonium thiosulphate solution (60% or less)	(C)	P	3
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120°C)	(C)	P	3
Benzyl acetate	C	P	3
* Butene oligomer	B	P	3
Butylbenzenes (all isomers)	(A)	P	2
n-Butyl butyrate	(C)	P	3
1,2-Butylene oxide	C	S / P	3
* Calcium alkyl salicylate	C	P	3
Chlorinated paraffins (C10-C13)	A	P	1
Coal tar	A	S / P	2**
Coal tar pitch (molten)	D	S	3
Coconut oil fatty acid	C	P	3
Cresylic acid, sodium salt solution	A	S / P	2
Cycloheptane	(C)	P	3
Cyclohexyl acetate	(B)	P	3
* 1,3-Cyclopentadiene dimer (molten)	B	P	2
Cyclopentane	(C)	P	3
Cyclopentene	(B)	P	3
Decanoic acid	C	P	3
Diglycidyl ether of bisphenol F	B	P	3
Di-n-hexyl adipate	B	P	3
N,N-Dimethylacetamide solution (40% or less)	D	S	3
Dimethyl adipate	B	P	3
Dimethyl glutarate	C	P	3
Dimethyl octanoic acid	(C)	P	3
Dimethyl succinate	C	P	3
Diphenyl	A	P	1
Diphenyl/Diphenyl ether mixtures	A	P	1
Diphenylol propane-epichlorohydrin resins	B	P	3
Drilling brines, containing zinc salts	(A)	P	2
Ethyl amyl ketone	C	P	3
Ethyl butyrate	C	P	3
* Ethylcyclohexane	(C)	P	3
* Ethylene glycol butyl ether acetate	(C)	P	3
Ethylene glycol diacetate	C	P	3
o-Ethylphenol	(A)	S / P	3
Ferric chloride solutions	C	S / P	3
Ferric nitrate/Nitric acid solution	C	S / P	2

Products	Poll. Cat.	Hazard	Ship Type
* Heptane (all isomers)	(C)	P	3
* Hexane (all isomers)	(C)	P	3
Isopropylcyclohexane	(C)	P	3
Lactonitrile solution (80% or less)	B	S / P	2
Lauric acid	B	P	3
Metam sodium solution	A	S / P	3
Methyl butyrate	(C)	P	3
Methylcyclohexane	(C)	P	3
Methylcyclopentadiene dimer	(B)	P	3
Methyl heptyl ketone	B	P	3
Naphthenic acids	A	P	2
* Nonane (all isomers)	(C)	P	3
Nonyl phenol poly(4-12) ethoxylates	B	P	3
Noxious liquid, N.F, (1) n.o.s. (trade name..., contains...) S.T.1, Cat.A ***	A	P	1
Noxious liquid, F, (2) n.o.s. (trade name..., contains...) S.T.1, Cat.A ***	A	P	1
Noxious liquid, N.F, (3) n.o.s. (trade name..., contains...) S.T.2, Cat.A ***	A	P	2
Noxious liquid, F, (4) n.o.s. (trade name..., contains...) S.T.2, Cat.A ***	A	P	2
Noxious liquid, N.F, (5) n.o.s. (trade name..., contains...) S.T.2, Cat.B ***	B	P	2
Noxious liquid, N.F, (6) n.o.s. (trade name..., contains...) S.T.2, Cat.B, *** mp 15°C+	B	P	2
Noxious liquid, F, (7) n.o.s. (trade name..., contains...) S.T.2, Cat.B ***	B	P	2
Noxious liquid, F, (8) n.o.s. (trade name..., contains...) S.T.2, Cat.B, *** mp 15°C+	B	P	2
Noxious liquid, N.F, (9) n.o.s. (trade name..., contains...) S.T.3, Cat.A ***	A	P	3
Noxious liquid, F, (10) n.o.s. (trade name..., contains...) S.T.3, Cat.A ***	A	P	3
Noxious liquid, N.F, (11) n.o.s. (trade name..., contains...) S.T.3, Cat.B ***	B	P	3
Noxious liquid, N.F, (12) n.o.s. (trade name..., contains...) S.T.3, Cat.B, *** mp 15°C+	B	P	3
Noxious liquid, F, (13) n.o.s. (trade name..., contains...) S.T.3, Cat.B ***	B	P	3
Noxious liquid, F, (14) n.o.s. (trade name..., contains...) S.T.3, Cat.B, *** mp 15°C+	B	P	3
Noxious liquid, N.F, (15) n.o.s. (trade name..., contains...) S.T.3, Cat.C ***	C	P	3
Noxious liquid, F, (16) n.o.s. (trade name..., contains...) S.T.3, Cat.C ***	C	P	3
* Octane (all isomers)	(C)	P	3
Octyl aldehydes	(B)	P	3
Octyl nitrates (all isomers)	A	S / P	2

Products	Poll. Cat.	Hazard	Ship Type
Palm nut oil fatty acid	(C)	P	3
Polyferric sulphate solution	(C)	S / P	3
n-Propylbenzene	(C)	P	3
* Propylene tetramer	B	P	3
Sodium hydrogen sulphite solution (35% or less)	D	S	3
Sodium nitrite solution	B	S / P	2
Sodium thiocyanate solution (56% or less)	(B)	P	3
1,2,3,5-Tetramethylbenzene	(C)	P	3
Undecanoic acid	(C)	P	3

" For ships constructed before the date of entry into force of the present amendments which are engaged solely on voyages between ports or terminals within the State the flag of which the ship is entitled to fly, the ship-type requirement applies ten years after entry into force of the amendments.

For ships constructed before the date of entry into force of the present amendments, which are engaged on voyages from, to or between port terminals within States other than the State the flag of which the ship is entitled to fly, the ship-type requirement applies five years after the entry into force of the amendments, provided that the ship satisfies all the following conditions:

- 1 the ship has been regularly engaged in the trade of coal tar for at least five years before the date of entry into force of the present amendments;
- 2 the ship is solely engaged on restricted voyages as determined by the Administration;
- 3 the Certificate of Fitness is endorsed to the effect that the ship is solely engaged in such restricted voyages, with the expiry date of the period of grace; and
- 4 the five year period of grace is agreed among the Governments concerned.

" In case of a specific n.o.s. cargo assessed as falling within this n.o.s. group that is carried on a ship, this entry the cargo's trade name and one or two principle components, should be provided in the shipping document. Abbreviations

N.F:	Flashpoint exceeding 60°C (closed cup test)	S.T:	Ship type
F:	Flashpoint not exceeding 60°C (closed cup test)	Cat.:	Pollution category
n.o.s.:	Not otherwise specified	m.p.:	Melting point

付 録 2
名称変更物質

(旧)

(新)

Calcium hypochlorite solution	Calucium hypochlorite solution (15% or less)
	Calucium hypochlorite solution (more than 15%)
Cresols (mixed isomers)	Cresols (all isomers)
o-Dichlorobenzene	Dichlorobenzenes (all isomers)
2,4-Dichlorophenoxyacetic acid, dimethylamine salt, (70% or less) solution	2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)
Diethylethanolamine	Diethylaminoethanol
Diphenyl oxide/Diphenyl phenyl ether mixtures	Diphenyl ether/Diphenyl phenyl ether mixture
Dodecyl diphenyl oxide disulphonate solution	Dodecyl diphenyl ether disulphonate solution
Ethylene oxide/propylene oxide mixtures with an ethylene oxide content of not more than 30% by weight	Ethylene oxide/Propylene oxide mixtures with an ethylene oxide content of not more than 30% in weight
n-Hexane	Hexane (all isomers)
1-Hexene	Hexene (all isomers)
(o- and p-) Nitrotoluenes	o- or p-Nitrotoluenes
Nonane	Nonane (all isomers)
Nonyl alcohol	Nonyl alcohol (all isomers)
Octane	Octane (all isomers)
Olefin, straight chain mixtures	Olefin mixtures (C5-C7)
	Olefin mixtures (C5-C15)
n-Pentane	Pentane (all isomers)
Phthalic anhydride	Phthalic anhydride (molten)
Tall oil, crude and distilled	Tall oil (crude and distilled)
1,2,4-Trimethylbenzene	Trimethyl benzenes (all isomers)
Urea/Ammonium solution (containing aqua ammonia)	Urea/Ammonium nitrate solution (containing aqua ammonia)

付 録 3
汚染分類変更物質

<u>Products</u>	<u>Pollution Category</u>
Acetic acid	"C" to "D"
Acetic anhydride	"C" to "D"
n-Butyl acrylate	"D" to "B"
Butyric acid	"B" to "D"
Calcium hypochlorite solution (15% or less)	"B" to "C"
Carbon disulphide	"A" to "B"
Creosote (coal tar)	"(C)" to "A"
Ethyl acrylate	"B" to "A"
2-Ethylhexyl acrylate	"D" to "B"
Isobutyl acrylate	"D" to "B"
Methyl acrylate	"C" to "B"
Neodecanoic acid	"(B)" to "C"
Pinene	"A" to "B"
Pyridine	"B" to "D"
Rosin	"A" to "B"
Sodium dichromate solution (70% or less)	"B" to "C"
Sodium hypochlorite solution (15% or less)	"B" to "C"
Tall oil (crude and distilled)	"A" to "B"
Vinyl neodecanoate	"C" to "B"

付 録 4

消火剤 A (耐アルコール泡又は多目的泡) が使用可能となった物質

Products

Fire Protection

Alkyl benzene sulphonic acid	"A"
2-(2-Aminoethoxy) Ethanol	"A,D"
N-Aminoethylpiperazine	"A"
Ammonia aqueous (28% or less)	"A,B,C"
Ammonia sulphide solution (45% or less)	"A"
Benzene and mixtures having 10% benzene or more	"A,B"
Benzenesulphonyl chloride	"A,D"
Benzyl chloride	"A,B"
Butyl/decyl/cetyl/eicosyl methacrylate mixture	"A,D"
n-Butyl ether	"A"
Camphor oil	"A,B"
Cashew nut shell oil (untreated)	"A,B"
Cetyl/eicosyl methacrylate mixture	"A,D"
Chlorobenzene	"A,B"
o-Chloronitrobenzene	"A,B,D"
m-Chlorotoluene	"A,B"
o-Chlorotoluene	"A,B"
p-Chlorotoluene	"A,B"
Chlorotoluenes (mixed isomers)	"A,B"
Creosote (coal tar)	"A,D"
Creosote (wood)	"A,D"
Cresols (mixed isomers)	"A,B"
Cyclohexylamine	"A,C"
Dibutylamine	"A,C,D"
Dichlorobenzenes (all isomers)	"A,B,D"
1,1-Dichloroethane	"A"
2,2-Dichloroisopropyl ether	"A,C,D"
2,4-Dichlorophenol	"A"
1,2-Dichloropropane	"A,B"
1,3-Dichloropropane	"A,B"
1,3-Dichloropropene	"A,B"
Dichloropropene/dichloropropane mixtures	"A,B,D"
Diethylaminoethanol	"A,C"
Di-(2-ethylhexyl) phosphoric acid	"A,D"
Diethyl sulphate	"A"
Diisobutylamine	"A,C,D"
Dimethylamine solution (45% or less)	"A,C,D"
Diphenylmethane diisocyanate	"A,B,C(c),D"
Dodecyl methacrylate	"A"
Dodecyl/pentadecyl/methacrylate mixture	"A,D"
N-Ethylcyclohexylamine	"A"
Ethylene chlorohydrin	"A,D"
Ethylene dichloride	"A,B"
Ethylidene norbornene	"A,D"
Ethyl methacrylate	"A,D"
Isophorone diisocyanate	"A,B,D"
Methyl acrylate	"A"
2-Methyl-6-ethyl aniline	"A,D"
2-Methyl-5-ethyl pyridine	"A,D"
2-Methyl-2-hydroxy-3-butyne	"A,B,D"
Methyl methacrylate	"A"
2-Methyl pyridine	"A"
4-Methyl pyridine	"A"

Products

Motor fuel anti-knock compounds
Nitrobenzene
o-Nitrophenol, molten
Nitropropane (60%)/nitroethane (40%) mixture
(o- or p-) Nitrotoluene
1,3-Pentadiene
1-Phenyl-1-xylyl ethane
Phthalic anhydride (molten)
Polymethylene polyphenyl isocyanate
n-Propylamine
Sodium hydrosulphide/Ammonium sulphide solution
Styrene monomer
Tetrahydrofuran
Toluenediamine
Toluene diisocyanate
o-Toluidine
1,2,4-Trichlorobenzene
1,2,3-Trichloropropane
Tricresyl phosphate (containing 1% or more ortho-isomer)
Triethylamine
Triethyl phosphite
Trimethylacetic acid
Vinyl neodecanoate
Vinyltoluene
Xylenol

Fire Protection

"A,C"
"A,D"
"A,D"
"A(u)"
"A,B"
"A,B"
"A,B"
"A,D"
"A"
"A,D"
"A"
"A,B"
"A"
"A,D"
"A,C(c),D"
"A"
"A,B"
"A,B,D"
"A,B"
"A,C"
"A,B"
"A"
"A,B"
"A,B"
"A,B"

VOID

Products

n-Butyl acrylate
n-Butyraldehyde
Calcium naphthenate in mineral oil
Chloroform
m-Chlorotoluene
o-Chlorotoluene
Coal tar naphtha solvent
Creosote (coal tar)
Crotonaldehyde
Decyl alcohol (all isomers)
1,1-Dichloroethane
Dichloroethyl ether
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution
1,2-Dichloropropane
1,3-Dichloropropane
Diglycidyl ether of bisphenol A
Diisobutyl phthalate
Diphenyl ether
Diphenyl ether/Diphenyl phenyl ether mixture
Dodecene (all isomers)
Dodecyl alcohol
Dodecyl diphenyl ether disulphonate solution
Ethyl acrylate
2-Ethylhexyl acrylate
2-Ethylhexylamine
2-Ethyl-3-propylacrolein
Fumaric adduct of rosin, water dispersion
Glycidyl ester of C10 trialkylacetic acid
Heptyl acetate
Isobutyl acrylate
Mercaptobenzothiazol, sodium salt solution
Methyl acrylate
2-Methyl-5-ethyl pyridine
N-Methyl-2-pyrrolidone
Methyl salicylate
Perchloroethylene
Pyridine
Rosin
Rosin soap (disproportionated) solution
Sodium hydrosulphide solution (45% or less)
Styrene monomer
Tall oil (crude and distilled)
Tall oil soap (disproportionated) solution
Tetrachloroethane
Tributyl phosphate
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
1-Undecene
Undecyl alcohol*
Vinylidene chloride
Vinyl neodecanoate
Xylenol