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INTERNATIONAL CONFERENCE ON MARINE POLLUTION, 1973 Committee III Agenda 1tem 3

CONSIDERATION OF THE DRAFT TEXT OF ANNEX II OF THE INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973

Report of the Working Group

The Working Group consisting of delegations of Canada, the Arab Republic of Egypt, Federal Republic of Germany, Norway, the United Kingdom, the United States and the Union of Soviet Socialist Republics, under the Chairmanship of Dr. M. Waldichuk (Canada), reviewed Appendix III of Annex II in the light of the discussion of the Committee to establish a Category D for Appendix II.

The Group agreed on the following text for a paragraph (1)(d) of Regulation 3 of Annex II:

"(d) Category D - Noxious liquid substances which if released into the sea from tank cleaning and deballasting operations would present a recognizable hazard to either marine resources or human health or cause minimal harm to amenities or other legitimate uses of the sea and therefore require some attention in operational conditions."

The Group further agreed on the Category D substances and revised a list of substances for Appendix III as attached.

The Group further agreed on the following text for Regulation 5(4):

(4) The discharge into the sea of substances in Category D, as defined in Regulation 3(1)(d) of this Annex, or those provisionally assessed as such, or ballast water, tank washings, or other residues or

mixtures containing such substances shall be prohibited. However, such mixtures may be discharged into the sea when all the following conditions are satisfied:

- (a) the ship is proceeding en route at a speed of at least 7 knots, 4 knots for ships which are not selfpropelled;
- (b) such mixtures have been diluted by one part of the substance to at least ten parts washwater;
- (c) the maximum quantity of cargo discharged into the sea from each tank and its associated piping system does not exceed 3 cubic metres or 1/1,000 of the tank capacity in cubic metres, whichever is the greater:*
- (d) the discharge is made as far as practicable from land, but not less than 2 nautical miles.

The Group agreed on a revised new paragraph (1) of Regulation 2 as follows:
"2(1) Regulations 10 and 11 shall not apply for the carriage of
Category D substances of Appendix II."

The Group agreed on the following guidelines for categorization of Category D substances for Appendix I:

"Category D

Substances - Practically non-toxic to aquatic life, (as expressed by a hazard rating 1, i.e. a TLm greater than 100 but not greater than 1000 ppm); causing deposits blanketing the seafloor with a high biochemical oxygen demand (BOD); highly hazardous to human health, with an LD₅₀ of less than 5 mg/kg; produce moderate reduction of amenities because of persistency, smell or poisonous or irritant characteristics, possibly interfering with use of beaches; moderately hazardous to human health, with an LD₅₀ of 5 mg/kg or more but not greater than 50 mg/kg and produce slight reduction of amenities;"

^{*} The Working Group did not consider this Regulation really necessary but there was an opinion that this should be included for the sake of consistency.

APPENDIX II

LIST OF NOXIOUS LIQUID SUBSTANCES

CARRIED IN BULK

Substanco	UN Number	Pollution Category for operational discharge (see Reg. 3 of Annex II)	Residual concentra- tion (percent by weight, see Regs. 5(1) and 5A(3))	
	I	II	III Outside special areas	IIIa Within special areas
Acetaldehyde	1089	C .		
Acctic acid	1842	C		<u> </u>
Acotic anhydride	1715	σ.		
Acetone	-	מ		
Acetone cyanohydrin	1541	A	. 0.1	0.01
Acetyl chloride	1717	c ,.	·	
Acrolein	1092	Λ	0.1	0.01
Acrylic acid	-	(c)		
horylonitrile	1093	В		0,1
Adiponitrile		D		
Alkyl benzene sulfonate (straight chain) (branched chain)	j . -	C B		0.1
Allyl alcohol	1098	В		0.1
Allyl chloride	1100	C		
Alum (15% solution)	*. ••	D		
Aminoethylethanolamine (Hydroxyethylethylene- diamine)*	; ••	מ		

Brackets in Column II indicate that the Category shown has been provisionally assigned and that further data is needed in order to complete the evaluation of the hazard of the substance concerned.

^{*} Asterisk indicates that the substance has been provisionally included in this list and that further data are necessary in order to complete the evaluation of its environmental hazards, particularly in relation to living resources.

Substance	I	Charles Co.	III	IIIA
Amonia (28% aqueous)	1005	Company of the Compan	- The control of the second se	okow godowała dopowa pokrej O.1
fso-Amyl acetate	1104	C		
n-Amyl acetate	1104	C		ege jate tis.
n-Amyl alor ol	Burgon Sang	D		
Anilino	1547	C		
Benzene	1114	C		
Beneyl alcohol	†	D		
Benzyl chloride	1758	The state of the s	operatory as are set of 1.44	
n-Butyl acetate	•	מ		**************************************
sec-Butyl acctate	; .	מ		
iso-Butyl acrylate) 	מ י		
n-Butyl acrylate	! •••	מ		7
iso-Butyl alcohol	<u> </u>	α		1
Butyl butyrato	•	(B)		(0,1)
Butylone glycol(s)		ָ ע		
Butyl mothacrylate	· •	מ		
iso-Butyl methacrylate	• •	Œ		a talah t
iso-Butyraldohyde	2045	C		
n-Butyraldehyde	1129	. B		0,1
Butyric acid	•	В		0.1
Calcium hydroxide (solution)		, D		,
Camphor oil	1130	. В	Jen	0.1
Carbon disalphido	1131	Δ	0.01	0.005
Carbon tetrachloride	1846	* B	*	0,1
Caustic potash ((Potassium hydroxids)	1814 . 7.4	in the property of the second		AA — varianteele () () () () () () () () () (
Chloracetic acid	1750	C C		

Substance	Í.	ıI.	III	IIIa
Chlaroform	1888	В		0.1
Chlorohydrins (crude)*	-	D C		
Chloroprepe	1991	(c)		•
Chlaresulphonic acid	1754	C		
p-Chlorotoluene	***	В		0.1
Citric acid (10%-25%)	-	D		
• •				
Creosote	1534	A	0.1	0.01
Çreso ls	2076	Λ	0.1	0.01
Cresylic acid	2022	À	0.1	0.01
Crotonal Labyde	1143	В		0.1
Cumone	1918	C		
Cyclo-hexane	1145	С		
Gyclohexanol	-	מ		
Cyplohexanone	-	. D		
Cyclohexylamine*	-	D		
p-Cymene (iso-Propyltoluene)*	-	a		
Decahydronaphthalene (Decalin)*	•••	D D		
Decane*	-	D		
Diacetone alcohol*	-	D		
Dibenzyl (thom	-	(c)		_
Dichlorobenzenes	1591	À	0.1	0,01
Dichloroethyl other	1916	3		0.1

^{*} Asterisk indicates that the substance has been provisionally included in this list and that further data are necessary in order to complete the evaluation of its environmental hazards, particularly in relation to living resources.

Substance	I	II	III	IIIa
Dichloropropene - Dichloropropane mixture (D.D. Soil fumigant)	2047	3		c.1
Diethyl ether		מ	W = W = W	
Diethylamine	1154	age (1465) S	, x. /	:
Diethylbenzene (mixed isomors)	2049	С		
Diethylene triamine	2079	(c)		
Diethylene glycol monoethyl ether	-	С		
Diethylketone (3-Pentanone)	_	D		
Di-iso-butylene*	-	D		
Di-iso-butyl ketone	_	D		
Di-iso-propanolamine	_	C		,
Di-is -propylamine	1158	C		
Di-iso-propyl other*	-	ָ מ	•	i
Dimethylamine (40% aqueous)	1160	c		
Dimethyl formamide (Form-dimethylamide)	-	ן ש		
Dimethyl ethanolamine (2-Dimethylaminocthano	2051 51)	(c)		`
l, 4-Dioxane	1165	(c)	,	
Diphenyl/Diphenyloxide mixtures*	•	D		
Dodecylbonsone		C		
D pichlorohydrin	2023	3		0.1
2-Ethoxyethyl acetate*		j j		÷
Ethyl acetato	-	D		

Substance	I	II	III	IIIa
Ethyl acrylate	-	D		
Ethyl anyl ketone	_	(c)		
Ethylbenzene	1175	С		
Ethyl cyclohexane	_	D		
Ethylene chlorohydrin (2-Chloro-ethanol)*	_	מ		
Ethyleno cyanohydrin*	_	D		
Ethylene diamine	1604	C		
Ethylene dibromide	1605	В		0.1
Ethylene dichloride	1184	В		0.1
Ethylene Clycol monethy	1			
(Methyl cellosolve)	-	D		
?-Ethylhexyl acrylate*	-	D		
2-Ethylhexyl alcohol	-	С		
Ethyl lactato*	-	D		
2-Ethyl 3-propyl- acrolein	-	(B)		(0.1)
	-	D		
Formaldehyde (37-50% solution)	1198	С		
Formic acid	-	D		
Furfuryl alcohol	-	С		
Heptanoic acid*	_	ת		
Hexamethylene diamine	1783	(c)		
Hydrochloric acid	_	D .		
Hydrofluoric acid (40% aqueous)	1790	18		0.1
Hydrogen peroxide (greater than 60%)	2015	c		

Substance	I	· · · · · · · · · · · II	III	IIIa
Isopreno		D		
Lactic acid	- *	D a		
Mesityl oxide	1229	(c)		
Methyl acetate	***	Φ		
Methyl acrylate	1919	C	.,	r
Methylamyl alcohol	ada	D		
Methylene chloride	1593	В		0.1
2-Methyl-5-Ethyl- pyridine	-	(B)		(0,1)
Mothyl methacrylate	•	<u>,</u> D		
2-Mothylpentone*	•••	D		
alpha-Methylstyrene*	-	מ		
Monochlorobenzene	1134	В		0.1
Monoethanolamine	-	D		• •
Monoisopropanolamine	-	C		
Monemothyl ethanolami	ne -	C		5
Mononitrobenzone	-	C		
Mono-iso-proprylamine	***	C		
Morpholine*	•••	C	w.	
Naphthalene (molten)	1334	A	0.1	0.01
Naphthenic acids	••	(A)	(0.1)	(0.005)
Nitrio acid (90%)	2031/2032	C		
2-Nitropropano	•••	D		
o-Nitrotoluene	1664	C		

Substance	I	II	III	JIIa
Nonyl alcohol	-	(c)		
Nonyl phenol	_	C		
iso-Octano*	-	מ		
n-Octanol		C		
Oleum	1831	С		
Oxalic acid (10-25%)	-	מ		
Pentachloroethane	1669	В		0.1
iso-Pontane	-	. D		*
n-Pentane	1265	C		
Perchlorcethylene (Tetrachloroethylene)	1897	3		0.1
Phenol	1671	B	<i>:</i>	
iso-Phorone	_	D		
Phosphoric acid	-	D		
Phosphomus (elemental)	1338	λ	0.01	0,005
Phthalic Anhydride (molton)	-	C		
beta-Propiola@tene	-	(B)		(0.1)
PropionalAchyde	-	D		
Propionic acid	-	ũ		
Propionic anhydride	-	D		
n-Propyl acetate	1276	(c)		,
n-Propyl alcohol		a		
iso-Propylamine	1221	, c	1	
n-Propylanine	1.277	C		
iso-Propyl cyclohexane		D		

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Substance	· I	II	III	IIIa
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	· •			
	į			
Pyridine	1282	В		0.1
Silicon tetrachloride	. 🕶	D	.	
Sodium bichromate (solution)] -	С	6	
Sodium hydroxide	1824	C		
Sodium pentachloro- phenate (solution)	•	Λ	0.1	0.01
Styrene monomer	2055	C		
Sulphuric said	1830/1831/ 1832	C		
Tallow	-	D		
Tetro othyl lead	1649	A	0,1	0.01
Tetrahydrofuran		D		
Tetrahydro naphthalon	1540	C		
Tetramethylbenzene	↓ ■	D		
Tetramethyl lead	1649	Λ	0,1	0.01
Titanium tetraehlorid	-	D	1	
Toluene	1294	C		
Toluene diimoeyanate	2078	(B)	4	(0.1)
Trichloroethane	-	C		
Trichloroethylene	1710	В В		0,1
Triethanolamine	-			
Triothylamine	1296	C		
Trinothylbenzene	-	(c)		
	•			
			1	

Substance	<u>I</u>	II	III	IIIa
Tritolyl phosphate (Tricresyl phosphate)	1	(B)		(0,1)
Turpentine (wood)	1299	В		0.1
Vinyl acetate	1301	c		
Vinylidene chloride	1303	(B)		(0.1)
Water				
	a de deserve			
Xylones (mixed isomers)	1307	c	i	

APPENDIX III

LIST OF OTHER LIQUID SUBSTANCES CARRIED IN BULK

Acetonitrile (Methyl cyanide)

tert-Amyl alcohol

n-Butyl alcohol

Buty: lactone

Calcium chloride (solution)

Castor oil

Citric juices

Coconut oil

Cod liver oil

iso-Decyl alcohol

n-Decyl alcohol

Decyl octyl alcohol

Dibutyl ether

Diethanolamine

Diethylene glycol

Dipentene

Dipropylene glycol

Ethyl alcohol

Ethylene glycol

Fatty alcohols (C12-C20)

Glycerine

n-Heptane

Heptene (mixed isomers)

n-Hexane

Ligroin

Methyl alcohol

Methylamyl acetate

Methyl ethyl ketone (2-butanone)

Milk

Molasses

Olive Oil

Polypropylene glycol

iso-Propyl acetate

iso-Propyl alcohol

Propylene glycol

Propylene oxide

Propylene tetramer

Propylene trimer

Sorbitol

Sulphur (liquid)

Tridecanol

Triethylene glycol

Triethylenetetramine

Tripropylene glycol

Water

Wine