

**DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD**

U.S. COAST GUARD (G-MTH-3)
WASHINGTON, D.C. 20593
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NVIC 3-85
19 MAR 1985

NAVIGATION AND VESSEL INSPECTION CIRCULAR NO. 3-85

Subj: Bulk Liquid Cargo Finding Aid

1. **PURPOSE.** This Circular provides a reference source for identifying which regulations apply to the marine transportation of bulk liquid cargoes evaluated to date. Other pertinent information about the cargoes is also included.
2. **DIRECTIVES AFFECTED.** Navigation and Vessel Inspection Circular (NVIC) 4-81, and CH-1 to NVIC 4-81 are canceled.
3. **SCOPE.** This Circular is to be used strictly as a finding aid, and should not be used in any way as regulatory authority.
4. **DISCUSSION.**
 - a. Since the publication of CH-1 to NVIC 4-81, well over 100 new products have been evaluated and classified by the U.S. Coast Guard. These classifications involved cargoes transported by tankbarge, tankship, or both. Many commodities have been assigned an International Maritime Organization (IMO) reference cargo when carried by foreign flag vessels in U.S. waters. In addition, the Tenth Set of Amendments to the IMO Chemical Code (which incorporates many new products) and the International Bulk Chemical Code have been published.
 - b. The Finding Aid lists in tabular form commodity names and the applicable parts of the Code of Federal Regulations governing their movement in bulk. These chemical names are to be used on all documents identifying the shipping name of the cargo. Trade names are not to be used as the sole identifying names on these documents. If cargoes are being shipped or considered for bulk shipment but are not listed in this Circular, contact COMMANDANT (G-MTH-3). Also included as separate entries for each commodity are applicable international Codes, other U.S. regulations, and useful, but not regulatory, information. Past users of the Finding Aid will find this edition to have a revised column format. The index should be carefully checked while becoming familiar with this new format.
5. **SOURCES.** The sources of the regulations and information are:
 - a. U.S. Coast Guard:
 - (1) 33 CFR Part 126, Handling of Explosives or Other Dangerous Cargoes Within or Contiguous to Waterfront Facilities (Cargoes Of Particular Hazard (COPH)).

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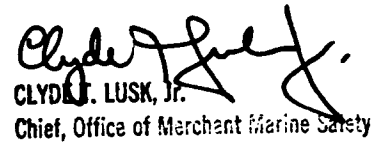
- (2) 33 CFR Part 161, Vessel Traffic Management (Certain Dangerous Cargoes (CDC)).
 - (3) 46 CFR Parts 30-40, Subchapter D - Tank Vessels (flammable and combustible cargoes).
 - (4) 46 CFR Part 150, Subchapter 0 - Compatibility of Cargoes and Operational Requirements for Bulk Liquid Hazardous Waste Cargoes (cargo compatibility groups).
 - (5) 46 CFR Part 151, Subchapter 0 - Unmanned Barges Carrying Certain Bulk Dangerous Cargoes.
 - (6) 46 CFR Part 153, Subchapter 0 - Safety Rules for Self-propelled Vessels Carrying Hazardous Liquids and, Appendix I - List of Cargoes Not Regulated Under Part 151, Part 153 or Subchapter D.
 - (7) 46 CFR Part 154, Subchapter 0 - Safety Standards for Self-propelled Vessels Carrying Bulk Liquefied Gases.
 - (8) 46 CFR Part 154a, Subchapter 0 - Special Interim Regulations for Issuance of Letters of Compliance to Barges and Existing Liquefied Gas Vessels (Annex cargoes).
 - (9) The Chemical Hazards Response Information System (CHRIS).
- b. U.S. Environmental Protection Agency: 40 CFR Part 302, Designation, Reportable Quantities, and Notification (EPA's pollution category).
- c. International Maritime Organization (IMO):
- (1) Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO Chemical Code), Resolution A. 212 (VII) including the 10th Set of Amendments.
 - (2) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Chemical Code), Resolution MSC. 4(48), 1983 Amendments to the International Convention for the Safety of Life at Sea, 1974 (SOLAS), Volume II.
 - (3) Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IMO Gas Code for new ships), Resolution A. 328 (Ix) including 4 sets of amendments.
 - (4) Code for Existing Ships Carrying Liquefied Gases in Bulk (IMO Gas Code for existing ships), including 4 sets of amendments.
 - (5) International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (International Gas Carrier Code), 1983 Amendments to

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the International Convention for the Safety of Life at Sea, 1974 (SOLAS),
Volume III.

- (6) International Convention for the Prevention of Pollution from Ships, 1973
(MARPOL) - Annex II, Noxious Liquid Substances (IMO's pollution category),
and the Proposed Amendment to Annex II.

6. Comments Desired. Comments, additional information, corrections or suggestions for improving
this Finding Aid should be sent to COMMANDANT (G-MTH-3), U.S. Coast Guard, Washington,
D.C. 20593.


CLYDE J. LUSK, JR.
Chief, Office of Merchant Marine Safety

End: (1) Bulk Liquid Cargo Finding Aid

Non-Standard Distribution:

- C:e Baltimore (45); Alameda (40); Port Arthur, Honolulu, Puget Sound (35); Miami, Mobile, Long
Beach (25); Norfolk, Jacksonville, Portland OR (20); Boston, Portland ME, Charleston,
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ZTC-68

BULK LIQUID CARGO FINDING AID

MARINE TECHNICAL and HAZARDOUS MATERIALS DIVISION

U.S. COAST GUARD

U.S. DEPARTMENT OF TRANSPORTATION

INDEX to the BULK LIQUID CARGO FINDING AID

<u>Column</u>	<u>Comment</u>
(COPH) Cargo Of Particular Hazard, 33 CFR 126.	
A.	46 CFR 150, Cargo Compatibility. (1) Unassigned in the Compatibility Guide. For assistance call G-MTH-3, 202/426-1577. (2) Additional stowage criteria apply, see Appendix I - Exceptions to the Chart, 46 CFR 150.
B.	46 CFR 30-40, Subchapter D (Table 30.25-1).
C.	Flammability/Combustibility Grade, 46 CFR 30.10-15, and 46 CFR 30.10-22. A, B, & C Flammable liquid. D, & E Combustible liquid. LFG Liquefied Flammable Gas. LCG Liquefied Compressed Gas.
D.	46 CFR 151, Subchapter O, Table 151.05 (tankbarges).
E.	46 CFR 153, Subchapter O. I Table I (tankships). U "Unregulated", Appendix I. # Certain Dangerous Cargoes (CDC), 33 CFR 161. Note: CDC also includes all commodities (cargoes) listed in Table I.
F.	46 CFR 154, Subchapter O, Table 4 (gas ships).
G.	46 CFR 154a, Subchapter O (Annex cargoes). A Annex A, Letter Of Compliance (LOC) required. B Annex B, Letter Of Compliance (LOC) not required. X Not presently authorized for carriage in U.S. Waters in bulk.
H.	IMO Chemical Code, and International Bulk Chemical Code Y Commodities (cargoes) to which the Codes apply, Chapter VI/17 (as appropriate). N Commodities (cargoes) to which the Codes do not apply, Chapter VII/18 (as appropriate).

<u>Column</u>	<u>Comment</u>
I.	IMO Gas Code. NS New Ship code. B Both new ship and existing ship codes.
J.	IMO Pollution Category, Annex II, MARPOL 73/78. A, B, C, & D Pollution categories. @ Indicates either; a. Pollution category rating is highest rating of several isomers not listed separately in this NVIC, or b. Pollution category rating is for a substance similar to a commodity listed in this NVIC.
K.	IMO Pollution Category, Annex II, MARPOL 73/78, proposed revision. A, B, C, & D Pollution categories. 3 Appendix III substances. @ See same in Column J above.
L.	EPA Pollution Category, 40 CFR 302. X, A, B, C, & D Pollution categories. @ See same in Column J above.
M.	CHRIS Code (principle Code). See also Remarks column for related CHRIS Codes.
Remarks.	Related, and isomeric CHRIS Codes. Isomer Codes are listed generally in the order: iso-, n-, sec-, tert-; meta-, ortho-, para-. Other pertinent information.
Notes:	Y Yes, included/regulated by. N No, not included/regulated by. P Proposed for inclusion.

BULK LIQUID CARGO FINDING AID

Commodity		A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
ACETALDEHYDE	(COPH)	19		A	Y	#	Y	A		B	C		C	AAD	
ACETIC ACID		4		D	Y	I		A	Y		C	C	D	AAC	
ACETIC ANHYDRIDE		11		D	Y	I		A	Y		C	C	D	ACA	
ACETONE		18	Y	C				B	N		D	3	D	ACT	
ACETONE CYANOHYDRIN (stabilized)	(COPH)	0 (2)		E	Y	I		A	Y		A	A	A	ACY	
ACETONITRILE		37		C	Y	I		A	Y			3	D	ATN	
ACETOPHENONE		18	Y	E				PB				D	D	ACP	
ACETYL TRIBUTYL CITRATE		34	Y	E				PB							
ACROLEIN (inhibited)		19		C				X			A	A	X	ARL	
ACRYLAMIDE Solution (50% or less)		10				PI		PA	Y		@D	@D		AAM	
ACRYLIC ACID (inhibited)		4		D	P	I		A	Y		C	D	D	ACR	
ACRYLONITRILE (inhibited)		15 (2)		C	Y	I		A	Y		B	B	B	ACN	
ADIPONITRILE		37		E	Y	I		A	Y		D	D		ADN	
ALCOHOLS (mixed)		20	Y	D				PB							
ALKENYLSUCCINIC ACID			Y	E				PB							
ALKENYLSUCCINIC ANHYDRIDE			Y	E				PB							
ALKYL(C9-C15) BENZENES								PB	PN			D			
ALKYL BENZENE SULFONIC ACID		(2)				I		PA	Y			C		ABS	
ALKYL BENZENE SULFONIC ACID (4% or less)			Y					PB			@C			ABS	
ALKYLENEAMINE															
IMO Ref: Polyethylene polyamines														AAE	
ALKYL PHOSPHORUS ACID ESTER			P	E											
n-ALKYL PHTHALATES		34	Y					PB							
ALKYL SUCCINATE FORMALDEHYDE HYDROXY AMINO CONDENSATE (If it does not exceed 3.2% of total volume)			Y					PB							
ALLYL ALCOHOL		15		C	Y	I		A	Y		B	B	B	ALA	
ALLYL CHLORIDE	(COPH)	15		B	Y	I		A	Y		C	B	C	ALC	
2-(2-AMINOETHOXY)ETHANOL		8				PI		PA	Y					AEX	
AMINOETHYLETHANOLAMINE		8		E	Y	I		A	Y		D	D		AEE	
N-AMINOETHYLPIPERAZINE		7				PI		PA	Y					AEP	
2-AMINO-2-METHYL-1-PROPANOL (90% or less)															
IMO Ref: Aminoethylethanolamine		8		E		PI		PA						APR	
AMMONIA, anhydrous	(COPH)	6		LCG	Y	#	Y	A		B		C	B	AMA	46 CFR 98
AMMONIUM BISULFITE Solution (50% or less)		43 (2)			P									ASU	
AMMONIUM HYDROXIDE (28% or less Ammonia)		6			Y	I		A	Y		B	C	@C	AMH	
AMMONIUM NITRATE Solution (34% or less)						U		PB			@D			AMN	
AMMONIUM NITRATE Solution (45% or less)						PU		PB			@D			AMN	
AMMONIUM NITRATE Solution (93% or less)						PI		PA	Y		@D		ANR	AMN	

A. Compatibility D. Tank barge F. Gas ship I. IMO Gas Code L. EPA Pollution
 B. Subchapter D E. I=Tankship G. Annex's J. IMO Pollution M. CHRIS Code
 C. Flam./Combust. U="Unreg." H. IMO Chem. Code K. IMO Pollution

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
AMMONIUM NITRATE, UREA Solution (more than 2% Ammonia)	6			P	I	PA					D	UAS		
AMMONIUM NITRATE, UREA Solution (2% or less Ammonia)	43			U	U	PB	N				D	ANU		
AMMONIUM PHOSPHATE Solution				U	U	PB								APP
AMMONIUM PHOSPHATE, UREA Solutions				U	U	PB	N				D			
AMMONIUM POLYPHOSPHATE Solution	43			U										
AMMONIUM SULFATE Solution (20% or less)	43				U	PB					@D			AMS
AMMONIUM SULFIDE Solution (45% or less)														
IMO Ref: (mono) Ethylamine Solution (72% or less), w/ modifications.	5		A		PI	PA	PY						ASS	
AMMONIUM THIOSULFATE Solution (60% or less)						PB								
(iso-, n-) AMYL ACETATE	34	Y	D				B	N		C	C	D		IAT/AML/AAS/AYA
AMYL ACETATE, Commercial								N				@D	AEC	
sec-AMYL ACETATE								N				D	AAS	
iso-AMYL ALCOHOL	20							N			D		IAA	
n-AMYL ALCOHOL	20	Y	D				B	N		D	D		AAN	
(sec-, tert-, & primary) AMYL ALCOHOL								N			@D			
AMYLENE	30	Y	A				PB	N			@C			AMZ
tert-AMYLENE								N			C			AMK
AMYL METHYL KETONE	18	Y					PB							
AMYL TALLATE	34	Y					PB							
ANILINE	9		E	Y	I	A	Y			C	C	D	ANL	
APPLE JUICE					U	PB								
Arachis oil														
ARGON, liquid			LCG	P										
AROMATIC sec-AMINE (in oil)		P	E											
ASPHALT	33	Y					B						ASP	
ASPHALT BLENDING STOCKS, ROOFERS FLUX	33	Y					PB						ARF	
ASPHALT BLENDING STOCKS, STRAIGHT RUN RESIDUE	33	Y					PB						ASR	
BARIUM CARBOXYLATE (in oil)		P	E											
BARIUM SULFONATE (in oil)		P	E											
BEHENYL ALCOHOL	20	Y	E				PB							
BENZENE	32		C	Y	I	A				C	C	C	BNZ	
BENZENE, HYDROCARBON Mixtures (10% Benzene or more)	32			Y		PA	Y				@C	BHB		
BENZENE, HYDROCARBON Mixtures (containing Acetylenes) (having 10% Benzene or more)				Y		PA					@C	BHA		
BENZENESULFONYL CHLORIDE	0 (2)			PI		PA	Y				B	BSC		
BENZENE, TOLUENE, XYLENE (having 10% Benzene or more)														
IMO Ref: Benzene, Hydrocarbon mix., cont. Benzene	32		B/C	Y		A							BTX	

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge				I. IMO Gas Code				L. EPA Pollution		
B. Subchapter D				E. I=Tankship				J. IMO Pollution				M. CHRIS Code		
C. Flam./Combust.				U="Unreg."				K. IMO Pollution						

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
BENZYL ALCOHOL	21	Y	E				PB	N		D	C		BAL	
BENZYL CHLORIDE (stabilized)	36		E	P	I		PA	Y		B	B	B	BCL	
BICYCLIC TERPENEL POLYAMINE AMIDE SALT		Y	E				PB							
BUTADIENE (inhibited)	(COPH) 30		LFG	Y	#	Y	A		B				BDI	
BUTADIENE, BUTENE Mixtures (cont. Acetylenes)	30		Y	Y									BBM	
BUTANES	(COPH) 31	Y	LFG		#	Y	A		B				BMX	IBT/BUT
BUTANE, PROPANE Mixtures									B					
BUTENE	(COPH) 30	Y	LFG		#	Y	A		B				BTN	IBL
BUTYL ACETATE	34	Y	D				B	N		D	@C	D	IBA/BCN/BTA/BYA	
(iso-, n-) BUTYL ACRYLATE (inhibited)	14		D	Y	I		A	Y		D	D		BAR	BAI/BTC
BUTYL ALCOHOL (all isomers)	20	Y	D/E				B	N		@D	3	@D	IAL/BAN/BAS/BAT	
BUTYLAMINE (all isomers)	7		C/D	Y	I		A	Y			C	C	BTY	IAM/BAM/BTL/BUA
BUTYL BENZYL PHTHALATE	34	Y	E				B	N			B	B	BPH	
BUTYLENE	See BUTENE 30													
1,3-BUTYLENE GLYCOL	20 (2)	Y	E				B	N		D	D			
BUTYLENE OXIDE	(COPH) 16		C		#		A						BTO	
IMO Ref: Propylene oxide, w/ modifications.		Y					PB							
BUTYLENE POLYGLYCOL	41		D		I		A	Y		@C			BTE	
n-BUTYL ETHER														
BUTYL FORMATE	34			P						@D			BFN	BFI
iso-BUTYL FORMATE	34	P					PB	N		D			BFI	
BUTYL HEPTYL KETONE	18	Y	E				PB							
BUTYL METHACRYLATE (inhibited)	14		D	Y	I		PA	Y		D	D		BMH	BMI/BMN
BUTYL METHACRYLATE, DECYL METHACRYLATE, CETYL EICOSYL														
METHACRYLATE Mixture (inhibited)	14				I		PA	Y					DER	
BUTYL METHYL KETONE		Y					B							
BUTYL STEARATE		Y	E				PB							
BUTYL TOLUENE		Y					PB							
(iso-, n-, & crude) BUTYRALDEHYDE	19		C	Y	I		A	Y		@B	@B		BAE	BAD/BTR/BFA="crude"
BUTYRIC ACID														
IMO Ref: Propionic acid, w/ modifications.	4				PI		PA	PY		@B	D		BRA	
gamma-BUTYROLACTONE	0 (2)	Y	E				PB	N			D		BLA	
C-5 Mixture (15% or more Isoprene) (inhibited)					P	PI								
IMO Ref: Isoprene		Y					PA						CFV	
CALCIUM ALKYLPHENATE		Y	E				PB	N			D		CAK	
CALCIUM ALKYL SALICYLATE		Y					PB							
CALCIUM AMINO NONYL PHENOLATE							PB	PN						
CALCIUM BROMIDE Solutions	43	Y			U		PB							
CALCIUM CARBOXYLATE							PB							
CALCIUM CHLORIDE Solutions	43				U		PB	PN			D		CLC	
CALCIUM NAPHTHENATE, MINERAL OIL Mixture							PB	PN						

Commodity

A

B

C

D

E

F

G

H

I

J

K

L

M

Remarks

A. Compatibility
B. Subchapter D
C. Flam./Combust.

D. Tank barge
E. I=Tankship
U="Unreg."

F. Gas ship
G. Annex's
H. IMO Chem. Code

I. IMO Gas Code
J. IMO Pollution
K. IMO Pollution

L. EPA Pollution
M. CHRIS Code

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
CALCIUM SULFONATE (in oil)		P	E											
CALCIUM SULFONATE, CALCIUM CARBONATE, Hydrocarbon Solvents Mixtures	33		D				PB							
CAMPBOR OIL	18		D	Y	I		A	Y		B	B		CPO	
CAPROLACTAM Solutions	22	Y	E				PB	PN		@D			CLS	
CARBOLIC OIL	21		E	Y	I		A	Y		A			CBO	
Carbon bisulfide See CARBON DISULFIDE	33	Y					PB							
CARBON BLACK BASE				Y			PA						CDO	
CARBON DIOXIDE, liquid				Y	I		A	Y		A	A	PB	CBB	
CARBON DISULFIDE (COPH)	38		B				A	Y						
CARBON TETRACHLORIDE	36			Y	I		A	Y		B	@B	D	CBT	
CASHEW NUT SHELL OIL (untreated)	4				I		PA	Y			D		OCN	
CAUSTIC POTASH Solution	5 (2)			Y	I		A	Y		C	@C	@C	CPS	
CAUSTIC SODA Solution See SODIUM HYDROXIDE Sol.	5 (2)			Y	I		A			@C	@C	@C	CSS	
Cerechlor S52 See CHLORINATED PARAFFIN C10-C30														
CETYL ALCOHOL (Hexadecanol)		Y					PB							
CETYL EICOSYL METHACRYLATE (inhibited)	14				PI		PA	Y					CEM	
CETYL STEARYL ALCOHOL		Y					PB							
CHEMICAL WASTES (mixture of chlorinated hydrocarbons and caustic materials)				Y									CWC	
CHLORINATED PARAFFIN, C-10 to C-30							PA						CLH	
IMO Ref: Methylene chloride														
CHLORINE (COPH)														
Bulk carriage permitted on unmanned barges only.	0 (1)			Y	#		X	NS				A	CLX	
CHLOROACETIC ACID (80% or less)														
IMO Ref: Oleum, w/ modifications.	4				PI		PA	PY		@C	@C		CHM	CHL/MCA
CHLOROBENZENE (mono-)	36		D	Y	I		A	Y		B	B	B	CRB	
CHLORODIFLUOROMETHANE (mono-) See REFRIGERANT GASES	36	LCG	Y				A						MCF	
2-CHLORO-4-ETHYLAMINO-6-ISOPROPYLAMINO-5-TRIAZINE Sol.					U		PB							
CHLOROFORM	36		E	Y	I		A	Y		B	@B	D	CRF	
CHLOROHYDRINS (crude)			D	Y	I		A	Y		D	D		CHD	
2-CHLORONITROBENZENE See o-NITROCHLOROBENZENE	42									@B			CNO/CNP	
CHLOROPRENE (inhibited)					I		PA			C			CRP	
2- or 3-CHLOROPROPIONIC ACID					I		PA	Y		@C			CPM	CLA/CLP
CHLOROSULFONIC ACID (COPH)	0 (1)			Y	I		A	Y		C	C	C	GSA	
(m-, o-, p-) CHLOROTOLUENE	36			PI			PA	Y		@B	@A		CHI	CTM/CTO/CRN
CHOLINE CHLORIDE Solutions	20				U		PB							
CLEANING SPIRIT (unleaded)		Y					PB							
CORN SYRUP	43												CSY	
CREOSOTE	21		E	Y	I		PA	Y		A	@A	X	CCW	CCT/CWP

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code		L. EPA Pollution		
B. Subchapter D				E. I=Tankship						J. IMO Pollution		M. CHRIS Code		
C. Flam./Combust.				U="Unreg."						K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
CRESOLS	21		E	Y	I		A	Y		A	A	C	CRS	CRL/CSL/CSO
CRESYLATE SPENT CAUSTIC														
IMO Ref: Sodium hydroxide (Caustic soda) solution	5				Y	PI	PA						CSC	
CRESYLIC ACID	21		E				PA			A	@A	C	CRY	
CRESYLIC ACID TAR	21			P									CRX	
CROTONALDEHYDE	19		C	Y	I		A	Y		B	B	B	CTA	
CRUDE HYDROCARBON FEEDSTOCKS (cont. Ethyl ether (less than 10%), Butyraldehydes, and Ethylpropyl acrolein)					P	PI							CHE	CHF
CRUDE HYDROCARBON FEEDSTOCKS (cont. Ethyl ether (10-20%) Butyraldehydes, and Ethylpropyl acrolein)					P	PI							CHF	CHE
CUMENE	32	Y	D				B	N		C	B	D	CUM	
CYCLOALIPHATIC RESINS	31	Y					PB							
CYCLOHEXANE	31	Y	C				B	N		C	C	C	CHX	
CYCLOHEXANE OXIDATION PRODUCT ACID WATER, 50% solution	4						PB							
CYCLOHEXANOL	20	Y	E				PB	N		D	C		CHN	
CYCLOHEXANONE	18		D	P	I		A	Y		D	D	D	CCH	
CYCLOHEXANONE, CYCLOHEXANOL Mixture														
IMO Ref: Cyclohexanone	18 (2)												CYX	
CYCLOHEXYLAMINE	7			P	I		PA	Y		D	C		CHA	
CYCLOPENTADIENE POLYMERS	30	Y	E				PB							
CYCLOPENTADIENE, STYRENE, BENZENE Mixture	30		D	P									CSB	
para-CYMENE	32	Y	D				B	N		D	C		CMP	
(iso-, n-) DECALDEHYDE	19	Y	E				B			@B			IDA/DAL	
DECANE	31	Y					PB			D	D		DCC	
DECENE	30	Y					PB				C		DCE	
(iso-, n-) DECYL ACRYLATE (inhibited)	14				I		PA			@A			DAT	IAI/DAR
iso-DECYL ACRYLATE (inhibited)	14		E	Y	I		A			A			IAI	DAR/DAT
n-DECYL ACRYLATE (inhibited)	14				I		PA	Y		A			DAR	IAI/DAT
(iso-, n-) DECYL ALCOHOL	20	Y	E				B	N		B			ISA/DAN	
n-DECYL BENZENE	32	Y					PB						DBZ	
DECYL OCTYL ALCOHOL							PB							
DE Monomer Mix. See BUTYL-, DECYL-, CETYL EICOSYL METH.														
DETERGENT ALKYLATE		Y	E				PB							
See also DODECYLBENZENE														
DEXTROSE SOLUTION	43												DTS	
DIACETONE ALCOHOL	20	Y	E				B	N		D	D		DAA	
DIAMMONIUM SALT of ZINC EDTA Solution	43				PI		PA						DSZ	
DIBASIC ESTERS Mixtures	34	Y	E				PB							
DIBUTYLAMINE	7		D		I		A	Y			C		DBA	
DIBUTYL CARBINOL		Y					PB							
DIBUTYL ETHER								N			C			
See n-BUTYL ETHER														

A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution	

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
ortho-DIBUTYL PHTHALATE	34	Y					PB	N		@B	@A	DPA		
DICHLOROBENZENE	36		E	P	I		A	Y		A	@A	B		DBM/DBO/DBP
DICHLORODIFLUOROMETHANE	36			Y		Y	A					D		DCF
1,1-DICHLOROETHANE	36			P	I		PA	Y			B	C		DCH
1,2-DICHLOROETHANE								Y			B			
2,2'-DICHLOROETHYL ETHER	41		D	Y	I		A	Y		B	@B	@X		DEE
2,2'-DICHLOROISOPROPYL ETHER	36				PI		PA	Y			B			DCI
DICHLOROMETHANE	36			Y	I		PA	Y		B	D	@C		DCM
2,4-DICHLOROPHENOL	21				PI		PA	Y			A	B		DCP
1,1-, 1,2-, or 1,3-DICHLOROPROPANE	36			Y	I		PA			@B	C	DPX		DPB/DPP/DPC/DPL
1,2-DICHLOROPROPANE	36						PA	Y				C		DPP
1,3-DICHLOROPROPANE	36						PA	Y			B			DPC
DICHLOROPROPANE, DICHLOROPROPENE Mixtures	15				PI		PA	Y		B	B	PB		DMX
1,3-DICHLOROPROPENE	15		D	Y	I		A	Y			B	PB		DPS
2,2-DICHLOROPROPIONIC ACID	4				PI		PA	Y			D	D		DCN
DICYCLOPENTADIENE	30	Y	D				B	N			3			DPT
DIETHANOLAMINE	8		E	Y	I		A	Y			3			DEA
DIETHANOLAMINE SALT of 2,4-DICHLOROPHENOXYACETIC ACID Solution														
IMO Ref: Diethanolamine, w/ modifications.	43			P	PI		PA	PY						DZZ
DIETHYLAMINE	7		C	Y	I		A	Y		C	C	PB		DEN
DIETHYLBENZENE	32	Y	D				B	N		@C	@C			DEB
DIETHYLENE GLYCOL	40	Y	E				B	N			3			DEG
DIETHYLENE GLYCOL DIETHYL ETHER		Y					PB	N			3			
DIETHYLENE GLYCOL MONOBUTYL ETHER	40	Y	E				B	N			3			DME
DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	34	Y					PB	N			D			DEM
DIETHYLENE GLYCOL MONOETHYL ETHER	40	Y	E				B	N		C	3			DGE
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE		Y					PB	N			D			
DIETHYLENE GLYCOL MONOMETHYL ETHER	40	Y	E				PB	N			C			DGM
DIETHYLENE GLYCOL MONOMETHYL ETHER ACETATE		Y					PB	N			D			
DIETHYLENE GLYCOL MONOPHENYL ETHER	40	Y					PB							
DIETHYLENETRIAMINE	7		E	Y	I		A	Y		C	D			DET
DIETHYLETHANOLAMINE	8				I		PA	Y						DAE
DIETHYL ETHER	41						Y	B	D	3				EET
DI-2-ETHYLHEXYL ADIPATE							PB	PN			D			
DI-(2-ETHYLHEXYL)PHOSPHORIC ACID					PI		PA	Y						DEP
DI-(ETHYLHEXYL)PHTHALATE	34	Y					PB				3			
DIETHYL PHTHALATE		Y					PB					C		DPH
DIETHYL SULFATE	34				PI		PA	Y			B			DSU
DIGLYCIDYL ETHER of BISPHENOL A	41	Y					PB	PN						BDE BPA

Commodity

A. Compatibility D. Tank barge
 B. Subchapter D E. I-Tankship
 C. Flam./Combust. U-"Unreg."

F. Gas ship I. IMO Gas Code
 G. Annex's J. IMO Pollution
 H. IMO Chem. Code K. IMO Pollution

L. EPA Pollution
 M. CHRIS Code

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
DIHEPTYL PHTHALATE	34	Y					PB	PN			C		DHP	
DI-n-HEXYL ADIPATE	34	P	E				PB							
DIHEXYL PHTHALATE		Y	E				PB							
DIISOBUTYLAMINE	7			Y	I		PA	Y			C		DBU	
DIISOBUTYL CARBINOL	20	Y	E				B						DBC	
DIISOBUTYLENE	30	Y	C				PB	N		D	C		DBL	
DIISOBUTYL KETONE	18	Y	D				B	N		D	D		DIK	
DIISOBUTYL PHTHALATE		Y					PB	N			B		DIT	
DIISODECYL PHTHALATE	34	Y	E				PB	PN			D		DID	
DIISONONYL ADIPATE	34	P	E				PB							
DIISONONYL PHTHALATE	34	Y	E				PB				D		DIN	
DIISOCTYL PHTHALATE	34	Y	E				PB	N			D		DIO	
DIISOPROPANOLAMINE	8		E	Y	I		A	Y		C	C		DIP	
DIISOPROPYLAMINE	7		C	Y	I		A	Y		C	C		DIA	
DIISOPROPYL BENZENE	32	Y					PB	PN						
DIISOPROPYL NAPHTHALENE	32	P	E				PB	PN			@B		DII	
DIMETHYL ACETAMIDE														
IMO Ref: Benzene, w/ modifications.	10		E	P			PA				B		DAC	
DIMETHYL ADIPATE	34	P					PB							
DIMETHYLAMINE (COPH)	7		LFG	Y		Y			B			C	DMA	DMC/DMG/DMY
DIMETHYLAMINE (40% or less)				P	I		PA		@C		C		DMG	
DIMETHYLAMINE Solution, 45% or less	7				PI		PA	Y		@C			DMG	
DIMETHYLAMINE Solution, greater than 45%, less than 55%	7				PI		PA	Y					DMY	
DIMETHYLAMINE Solution, greater than 55%, less than 65%	7				PI		PA	Y					DMC	
DIMETHYLAMINE SALT of 2,4-DICHLOROPHENOXYACETIC ACID Solution (cont. 1% or less Dimethylamine)														
IMO Ref: 1,1,2-Trichloroethane, w/ modifications.	0 (2)						PA						DSX	
2-((2-(DIMETHYLAMINO)ETHYL)-METHYLAMINO)ETHANOLAMINE														
IMO Ref: Di-n-propylamine, w/ modifications.	8 (2)		E											
DIMETHYL AMMONIUM-2,4-DICHLOROPHENOXYACETATE Solution (70% or less)														
IMO Ref: Methylene chloride	0			P	PI		PA						DDA	
DIMETHYL BENZENE See also XYLENE		Y					PB				@C			
DIMETHYLCYCLOSILOXANE HYDROLYZATE (70% or less)	34	P												
N,N-DIMETHYLCYCLOHEXYLAMINE	7				PI		PA	Y					DXN	
DIMETHYLETHANOLAMINE	8		D	P	I		PA	Y		C	D		DMB	
Dimethyl formal See METHYL FORMAL														
DIMETHYLFORMAMIDE	10		D	Y	I		A	Y		D	D		DMF	
DIMETHYL FURAN	41													

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code		L. EPA Pollution		
B. Subchapter D				E. I=Tankship						J. IMO Pollution		M. CHRIS Code		
C. Flam./Combust.				U="Unreg."						K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
DIMETHYL GLUTARATE	34	P					PB							
DIMETHYL HYDROGEN PHOSPHITE	34 (2)				PI		PA PY						DPI	
2,2-DIMETHYLOCTANOIC ACID	4	P	E				PB N						DMO	
DIMETHYL PHTHALATE	34	Y	E				PB					D	DTL	
DIMETHYL POLYSILOXANE	34	P	E				PB						DMP	
2,2-DIMETHYLPROPANE-1,3-DIOL	20	Y					PB							
DIMETHYL SUCCINATE	34	P					PB							
DINITRILES (crude)				P										
DINONYL PHTHALATE	34	Y					PB PN					D		
DI-(OCTYLPHENYL)AMINE		Y	E				PB							
DIOCTYL PHTHALATE See also DI (2-ETHYLHEXYL)PHTHALATE	34	Y	E				B N				3	D	DOP	
DIOLEFIN STREAM (containing 20% Benzene) (inhb.)				P										
1,4-DIOXANE	41		C	Y	I		A Y			C	D	X	DOX	
DIPENTENE	30	Y					PB N				C		DPN	
DIPHENYL		Y					B						DIL	
DIPHENYL, DIPHENYL OXIDE Mixtures	33	Y	E							D	A		DDO DTH	
DIPHENYL ETHER		Y	E				PB N				B		DPE	
DIPHENYLMETHANE DIISOCYANATE	12		E	P	I		A Y				B		DPM	
DIPHENYL OXIDE, DIPHENYL PHENYL ETHER Mixture	41	P	E				PB							
DI-n-PROPYLAMINE	7		C	Y	PI		PA Y				C	D	DNA	
DIPROPYLENE GLYCOL	40	Y	E				B N				3		DPG	
DIPROPYLENE GLYCOL DIBENZOATE	34	P	E				PB							
DIPROPYLENE GLYCOL MONOMETHYL ETHER		Y					PB N				D			
DISTILLATES, FLASHED FEED STOCKS	33	Y					PB						DFF	
DISTILLATES, STRAIGHT RUN	33	Y					PB						DSR	
DIUNDECYL PHTHALATE	34	Y					PB				D		DUP	
DODECANE	31	Y					PB				D			
DODECANOL	20	Y					PB N				B		DDN LAL	
DODECENE See also PROPYLENE TETRAMER	30	Y	D				PB PN				C		DOD DDC for 1-	
DODECYLAMINE, TETRADECYLAMINE Mixture														
IMO Ref: Dimethylethanolamine	7 (2)						PA						DTA	
DODECYLBENZENE See also DETERGENT ALKYLATE	32	Y	E				B N			C	C		DDB	
DODECYL DIPHENYL OXIDE DISULFONATE Solution	43				I		PA Y						DOS	
DODECYL METHACRYLATE (inhibited)	14				PI		PA Y						DDM	
DODECYL, PENTADECYL METHACRYLATE Mixture (inhibited)	14		E		PI		PA Y						DDP	
DODECYL PHENOL	21	Y					PB N				A		DOL	
EPICHLOROHYDRIN (COPH)	17		D	Y	I		A Y			B	C	C	EPC	
EPOXYLATED LINEAR ALCOHOLS, C11-C15		Y					PB							
EPOXY RESIN	18						PB							
ETHANE (COPH)	31	Y	LFG	#	Y	A	A	B					ETH	
ETHANOLAMINE (mono-)	8		E	Y	I		A	Y		D	D		MEA	
Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks

A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution	

BULK LIQUID C. FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
ETHOXYETHANOL		Y					PB	N						
ETHOXYETHYL ACETATE		Y					PB	N		D			EEA	
ETHOXYLATED ALCOHOLS, C11-C15	20	Y					PB							EOD/ENP/EOP/EOT/ETD
ETHOXY TRIGLYCOL (crude)	40	Y	E				B							ETG
ETHYL ACETATE	34	Y	C				B	N		D	D	D	ETA	
ETHYL ACETOACETATE	34	P	E				PB	N					EAA	
ETHYL ACRYLATE (inhibited)	14		C	Y	I		A	Y		D	B	C	EAC	
ETHYL ALCOHOL	20	Y	C				B	N			3		EAL	
ETHYLAMINE (mono-)	7		A			Y	A	Y	B		C	PB	EAM	
ETHYLAMINE Solution (70% or less)	7				PI		PA						EAN	
ETHYLAMINE Solution (72% or less) (mono-)	7		A	Y			PA	Y					EAN	
ETHYL AMYL KETONE		Y					PB			C	C			
ETHYL BENZENE	32	Y	C				B	N		C	C	C	ETB	
ETHYL BUTANOL	20	Y	D				B				D		EBT	
N-ETHYL-n-BUTYLAMINE	7			Y			PA			@C			EBA	
N-ETHYLBUTYLAMINE	7				PI		PA	Y		@C			EBA	
ETHYL BUTYRATE	34	P											EBR	
ETHYL CHLORIDE	36		A	Y		Y	A		B				ECL	
ETHYL CYCLOHEXANE		Y					PB	N		D	D		ECY	
N-ETHYL CYCLOHEXYLAMINE	7			Y	PI		PA	Y			D		ECC	
ETHYLENE (COPH)	30	Y	LFG		#	Y	A		B				ETL	
Ethylene amine E-100														See POLYETHYLENE POLYAMINES
ETHYLENE CARBONATE		Y					PB	N			3			
ETHYLENE CHLOROHYDRIN	20		D	P	I		PA	Y		D	C		ECH	
ETHYLENE CYANOHYDRIN	20		E	Y	I		A	Y		D	D		ETC	
ETHYLENEDIAMINE	7 (2)		D	Y	I		A	Y		C	C	D	EDA	EMX
ETHYLENE DIBROMIDE	36		E	Y	I		A	Y		B	B	C	EDB	
ETHYLENE DICHLORIDE	36		C	Y	I		A	Y		B	@B	D	EDC	
ETHYLENE GLYCOL	20	Y	E				B	N			3		EGL	
ETHYLENE GLYCOL DIACETATE		Y					PB						EGY	
ETHYLENE GLYCOL METHYL BUTYL ETHER		Y					PB	N						
ETHYLENE GLYCOL MONOBUTYL ETHER	40	Y	E				B	N			D		EGM	
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	34	Y					PB	N			D		EMA	
ETHYLENE GLYCOL MONOETHYL ETHER	40	Y	D				B			D	D		EGE	
ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	34	Y	D				PB				C		EGA	
ETHYLENE GLYCOL MONOISOPROPYL ETHER	40	Y	D				PB							
ETHYLENE GLYCOL MONOMETHYL ETHER	40	Y	D				B	N			D		EME	
ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE		Y					PB	N			D			
ETHYLENE GLYCOL PHENYL ETHER	40	Y	E				PB	N			D			

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility														L. EPA Pollution
B. Subchapter D														M. CHRIS Code
C. Flam./Combust.														
D. Tank barge														
E. I=Tankship														
F. Annex's														
G. IMO Chem. Code														
H. IMO Chem. Code														
I. IMO Gas Code														
J. IMO Pollution														
K. IMO Pollution														

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
ETHYLENE OXIDE (COPH)	0 (1)		A	Y	#	Y	A		NS			X	EOX	
ETHYLENE OXIDE (30% or less), PROPYLENE OXIDE Mixture														
IMO Ref: Propylene oxide, w/ modifications (Gas Code)	16					PI	P PA	PY	B				EPM	
ETHYLENE, PROPYLENE COPOLYMER (in liquid mixtures)		Y	E				PB							
ETHYLENE, VINYL ACETATE COPOLYMER EMULSION (in water)	43					PU						3		
ETHYLENE, VINYL ACETATE POLYMER (in aromatic naphtha)		P	D				PB							
ETHYLENIMINE			B				X						X	ETI
ETHYL ETHER See DIETHYL ETHER (COPH)	41		A	Y	I		A			D @3		B	EET	
ETHYLHEXALDEHYDE See also OCTYL ALDEHYDE	19	Y					PB						EHA	
ETHYLHEXANOIC ACID See also 2-ETHYLHEXANOIC ACID		Y					PB	N				D		
2-ETHYLHEXANOL See also OCTYL ALCOHOL	20	Y	E				B			C @C			EHX	
2-ETHYLHEXANOIC ACID See also ETHYLHEXANOIC ACID	4	Y					PB							
2-ETHYLHEXYL ACRYLATE (inhibited)	14		E	Y	I		A	Y		D	D		EAI	
2-ETHYL HEXYLAMINE	7				I		PA	Y			B		EHM	
ETHYL HEXYL PHTHALATE		Y					PB							
ETHYL HEXYL TALLATE	34	Y	E				B						EHT	
ETHYLIDENE NORBORNENE (inhibited)	30 (2)		D	Y	PI		PA	Y			B		ENB	
ETHYL METHACRYLATE (inhibited)	14			P	I		PA	Y			D	C	ETM	
2-ETHYL-6-METHYL-N-(1'-METHYL-2-METHOXYETHYL)ANILINE														
IMO Ref: Adiponitrile	9						PA						EEM	
ETHYL PROPIONATE	34	P											EPR	
2-ETHYL-3-PROPYLACROLEIN	19		E	Y	I		A	Y		B	B		EPA	
ETHYL TOLUENE	32	Y					PB	PN			B		ETE	
FATTY ACID AMIDES	33	Y	D				PB							
FERRIC CHLORIDE Solutions				Y						@C @C	FCS	FCL		
FORMALDEHYDE, METHANOL Mixtures														
(Formaldehyde greater than 50%, in Methanol)														
IMO Ref: Formaldehyde Sol. 45%, w/ modifications.	19 (2)					PI	PA						MTM	
FORMALDEHYDE Solutions (37-50%)														
IMO Ref: Formaldehyde Sol. 45%	19		D/E	Y	I		A			C @C @C	FMS		FMS	
FORMALDEHYDE Solutions, 45% or less								Y	@C	C				
FORMAMIDE	10	Y					PB	N			3		FAM	
FORMIC ACID	4		E	Y	I		A	Y		D	D	D	FMA	
Fuming sulfuric acid See OLEUM														
FURFURAL	19		E	Y	I		A	Y			C	D	FFA	
FURFURYL ALCOHOL	20	Y	E				B	N		C	C		FAL	
GAS OIL, cracked	33	Y					PB						GOC	
GASOLINE BLENDING STOCK, ALKYLATES	33	Y					PB						GAK	
GASOLINE BLENDING STOCK, REFORMATES	33	Y					PB						GRF	

Commodity

A

B

C

D

E

F

G

H

I

J

K

L

M

Remarks

A. Compatibility

D. Tank barge

F. Gas ship

I. IMO Gas Code

L. EPA Pollution

B. Subchapter D

E. I=Tankship

G. Annex's

J. IMO Pollution

M. CHRIS Code

C. Flam./Combust.

U="Unreg."

H. IMO Chem. Code

K. IMO Pollution

BULK LIQUID C

Commodity	A
GASOLINES:	
AROMATIC (Use Benzene carriage req.)	
AUTOMOTIVE (cont. not over 4.23 grams lead per gal.)	33
AVIATION (cont. not over 4.86 grams lead per gal.)	33
CASINGHEAD (natural)	33
POLYMER	33
STRAIGHT RUN	33
GLUCOSE Solution	
GLUTARALDEHYDE Solution (50% or less)	19
GLYCERINE See also GLYCEROL	20
GLYCEROL See also GLYCERINE	
GLYCERYL TRIACETATE	34
GLYCIDYL ESTER of TERTIARY CARBOXYLIC ACID	
GLYCIDYL ESTER of VERSATIC ACID	34
GLYCOL DIACETATE See also ETHYLENE GLYCOL DIACETATE	34
GLYCOLS, RESINS, and SOLVENTS Mixture	33
GLYCOL TRIACETATE	
GLYOXAL Solutions (40% or less)	19
GREASE	
HEAVY AROMATICS	
HEPTADECANE	
HEPTANE	31
n-HEPTANOIC ACID	4
HEPTANOL	20
1-HEPTENE	30
HERBICIDE (C15-H22-NO2-C1)	33
Hexadecanol See CETYL ALCOHOL	
HEXAETHYLENE GLYCOL	
HEXAMETHYLENEDIAMINE ADIPATE	
HEXAMETHYLENEDIAMINE Solution	7
HEXAMETHYLENE GLYCOL	
HEXAMETHYLENETETRAMINE	7
HEXAMETHYLENIMINE	7
HEXANE	31
HEXANOL	20
HEXENE	30
HEXYL ACETATE See also METHYL AMYL ACETATE	
HEXYLENE GLYCOL	20
HOG GREASE	
HYDROCHLORIC ACID	1
HYDROCHLORIC ACID, Spent (15% or less)	1
Commodity	A

A. Compatibility D. Tank barge
 B. Subchapter D E. I="Tankship"
 C. Flam./Combust. U="Unreg."

ARGO FINDING AID

B	C	D	E	F	G	H	I	J	K	L	M	Remarks
Y	C	P			B						GAR	
Y					PB						GAT	
Y					B						GAV	
Y					PB						GCS	
Y					PB						GPL	
Y					PB						GSR	
		U			PB							
		P PI			PA	Y		D			GTA	
Y	E				B	N		3			GCR	
Y					B			@3				GCR
Y					B							
Y					PB							
Y					PB							
Y	E				B							
Y					PB							
Y					PB							
Y					PB						GOS	
Y					PB							
Y	D				PB							
Y					B	N		3			HPT	
Y	C				PB			D	D		HEP	
Y					PB	N		C			HTN	
Y					PB	N		C			HTE	
Y					PB							
Y					PB							
		U			PA	Y		@C	@C		HMC HMD	
Y		Y PI			B						HMT	
Y	E											
	C	P	I		PA	Y		@C			HMI	
Y	B/C				B	N		3			HXA	IHA/HXA
Y	D				PB	N		D			HXN	
Y					PB	N		C			HXE	
Y					PB			B				
Y	E				B	N		3			HXG	
Y					PB							
		Y	I		A	Y		D	D	D	HCL	
		Y									HCS	
B	C	D	E	F	G	H	I	J	K	L	M	Remarks
F.	Gas ship				I.	IMO Gas Code				L.	EPA Pollution	
G.	Annex's				J.	IMO Pollution				M.	CHRIS Code	
H.	IMO Chem. Code				K.	IMO Pollution						

Enclosure (1) to NVIC 3-85

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
HYDROFLUORIC ACID	1						X			@B	C	B	HFA	
HYDROFLUOROSILICIC ACID (25% or less)	1			Y			PA						HFS	
HYDROGEN		LFG					X						HXX	
HYDROGEN CHLORIDE							X						HDC	
HYDROGEN FLUORIDE							X						HFX	
HYDROGEN PEROXIDE Solutions (over 8%, but not over 60%)	0 (1)				PI		PA	PY						
HYDROGEN PEROXIDE Solutions (over 60%, but not over 70%)	(1)				PI		PA	Y	@C	@C				HPN/HPS/HPO
2-HYDROXYETHYL ACRYLATE (inhibited)	0 (2)		E	Y	I		A	Y			B		HAI	
INDUSTRIAL WASTE (containing Dimethyldisulfide, Methyl mercaptan, and Methomyl)	32		C	Y									INW	
ISOPHORONE	18	Y	E				B	N		D	D	D	IPH	
ISOPHORONE DIAMINE			E		I		PA	Y			D		IPI	
ISOPHORONE DIISOCYANATE					I		PA	Y					IPD	
ISOPRENE (inhibited)	30		A	Y	I		A	Y	B	D	C	PB	IPR	
iso- LOOK UNDER PARENT COMPOUND														
JET FUELS:														
JP-1 (Kerosene)	33	Y					B						JPO	
JP-3	33	Y					B						JPT	
JP-4	33	Y					B						JPF	
JP-5 (Kerosene, heavy)	33	Y					B						JPV	
KAOLIN CLAY SLURRY	43				U		PB							
KEROSENE See also JET FUEL, JP-1 or OIL, FUEL NO. 1	33	Y	D				B						KRS	
KETONE RESIDUE (mixed ketones)	18	P	E				PB							
KRAFT BLACK LIQUOR (Caustic soda, 1% or less)	5				PU									
LACTIC ACID		Y					PB	N		D	D		LTA	
LARD		Y					PB				3			
LATEX, LIQUID SYNTHETIC	43	Y					PB			@D			LLS	
LIGNIN LIQUOR (Calcium lignosulfonate solution)	43				U		PB							
LIQUEFIED NATURAL GAS See METHANE	31		LFG										LNG	
LIQUEFIED PETROLEUM GAS	31		LFG										LPG	
MAGNESIUM ALKYL SALICYLATE (in oil)		P	E											
MAGNESIUM CHLORIDE Solution	0 (2)				U		PB							
MAGNESIUM HYDROXIDE, WATER SUSPENSIONS					U		PB							
MAGNESIUM NONYL PHENOL SULFIDE	33	Y	E				PB							
MAGNESIUM SULFONATE		Y					PB							
MALEIC ANHYDRIDE	11				PI		PA	Y			D	D	MLA	
MALEIC ANHYDRIDE COPOLYMER	33	Y	E				PB							
MAPP Gas See METHYL ACETYLENE, PROPADIENE MIX.														
2-MERCAPTOBENZOTHAZOLE (in liquid mixtures)		Y	E				PB						MBT	

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge		F. Gas ship		I. IMO Gas Code				L. EPA Pollution		
B. Subchapter D				E. I=Tankship		G. Annex's		J. IMO Pollution				M. CHRIS Code		
C. Flam./Combust.				U="Unreg."		H. IMO Chem. Code		K. IMO Pollution						

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
MESITYL OXIDE	18		D		I	PA	Y			C	D		MSO	
METHACRYLIC ACID (inhibited)	4		E		I	PA	Y				D		MAD	
METHACRYLONITRILE	15				PI	PA	PY				B		MET	
Methaform See FORMALDEHYDE in METHANOL Solutions														
METHANE See LNG (COPH)	31	Y	LFG		#	Y	A		B				MTH	
METHOXY TRIGLYCOL	40	Y	E				PB				D		MTG	
METHYL ACETATE	34	Y	D				B	N		D	3		MTT	
METHYL ACETOACETATE	34	Y					PB							
METHYL ACETYLENE, PROPADIENE Mixture (COPH)	30		LFG	Y	#	Y	PA		B				MAP	
METHYL ACRYLATE (inhibited)	14		C	Y	I		A	Y		C	C		MAM	
METHYL ALCOHOL	20	Y	C				B	N			3	D	MAL	
METHYLAMINE (anhydrous)	7			P								B	MTA	
METHYLAMINE Solutions (42% or less)	7			P	PI		PA	Y			C		MSZ	
METHYL AMYL ACETATE See also sec-HEXYL ACETATE	34	Y	D				B	N			C		MAC	
METHYL AMYL ALCOHOL See also METHYLISOBUTYL CARBINOL	20	Y					PB	N		D	C		MAA	
METHYL AMYL KETONE See also AMYL METHYL KETONE (COPH)	18	Y					B	N			C		MAK	
METHYL BROMIDE	36			Y	#	Y	A		NS			C	MTB	
METHYL BUTANOL See also AMYL ALCOHOL		Y					PB							
METHYL tert-BUTYL ETHER	41 (2)	Y	C				PB	N			D		MBE	
3-METHYL BUTYRALDEHYDE	19													
METHYL BUTYRATE	34	P											MBU	
METHYL CHLORIDE (COPH)	36		LFG	Y	#	Y	A		B			X	MTC	
Methyl chloroform See 1,1,1-TRICHLOROETHANE														
METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL			E				X						MCT	
METHYLENE CHLORIDE See DICHLOROMETHANE								Y		B	@D	C		
4,4'-METHYLENEDIANILINE (43% or less), POLYMETHYLENE														
POLYPHENYLAMINE, o-DICHLOROBENZENE Mixture														
IMO Ref: Chlorohydrins, crude w/ modifications.	9		E			PA							MDB	
2-METHYL-6-ETHYL ANILINE	9			PI		PA	Y						MEN	
METHYL ETHYL KETONE	18	Y	C			B	N					D	MEK	
2-METHYL-5-ETHYL PYRIDINE	9		E	Y	I	A	Y		B	B			MEP	
METHYL FORMAL (Dimethyl formal)	41	Y				B							MTF	
METHYL FORMATE	34		A		I	PA	Y				D		MEF	
METHYL HEPTYL KETONE	18	Y				PB							MHK	
2-METHYL-2-HYDROXY-3-BUTYNE	20			PI		PA	Y						MHB	
METHYL ISOBUTYL CARBINOL See also METHYLAMYL ALCOHOL	20	Y	D			PB					D		MIC	
METHYL ISOBUTYL KETONE	18	Y	C			B	N				D	D	MIK	
METHYL METHACRYLATE (inhibited)	14		C	Y	I	PA	Y			D	D	C	MMM	
3-METHYL-3-METHOXY BUTANOL						PB	PN							
3-METHYL-3-METHOXY BUTYL ACETATE						PB	PN							
METHYL NAPHTHALENE	32	Y				PB					A		MNA	

A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution	

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
METHYLOLUREAS (20% free Formaldehyde)														
IMO Ref: Formaldehyde Sol. 45%	19				PI		PA						MUS	
METHYL PENTENE		Y					PB	N		D	C		MPN	
2-METHYLPYRIDINE	9		D	Y	PI		PA	Y			B	D	MPR	MPE/MPF
3-METHYLPYRIDINE														
IMO Ref: 2-Methylpyridine	9				PI		PA	PY					MPE	MPR/MPF
4-METHYLPYRIDINE	9				PI		PA	PY			B		MPF	MPE/MPR
N-METHYL PYRROLIDONE	9	Y					PB	N			B		MPY	
alpha-METHYL STYRENE (inhibited)	30		D	Y	I		PA	Y		D	A		MSR	
MINERAL SPIRITS	33	Y	D				B						MNS	
MOLASSES	20				U		B	N			3			
mono- LOOK UNDER PARENT COMPOUND														
MONOCHLORODIFLUOROMETHANE	36		LCG	Y			A						MCF	
MORPHOLINE	7		D	Y	I		A	Y		C	D		MPL	
MOTOR FUEL ANTIKNOCK COMPOUNDS CONTAINING LEAD ALKYLs	(COPH) 0 (1)		D/E	Y	I		A	Y		@A	@A	PA	MFA	
NAPHTHA:														
AROMATIC (10% or less Benzene)		Y					B							
COAL TAR	33		D		I		PA	Y					NCT	
CRACKING FRACTION	33 (2)	Y	B				PB							
HEAVY		Y					PB							
PARAFFINIC		Y					PB							
PETROLEUM	33	Y					B	N					PTN	
SOLVENT	33	Y					B	N					NSV	
STODDARD SOLVENT	33	Y	D				B						NSS	
VARNISH MAKERS' and PAINTERS' (75%)	33	Y	C				B						NVM	
NAPHTHALENE (molten)	32				I		A	Y		A	A	B	NTM	
NAPHTHENIC ACID	4	Y					PB			A	A	B	NTI	
NITRIC ACID (70% or less)	3			Y	I		A	Y		@C	@C	@C	NCD	
NITRIC ACID (greater than 70%)	0 (1)						X	Y		@C	@C	@C	NAC	
NITROBENZENE (mono-)	42		E	Y	I		A	Y		C	B	C	NTB	
ortho-NITROCHLOROBENZENE	42				PI		A	Y		@B			CNO	CNP
NITROGEN (liquid)		P				Y	A		B				NXX	
Nitrogen dioxide														
NITROGEN TETROXIDE							X			@A			NOX	
ortho-NITROPHENOL (molten)	0 (2)				I		A	Y		B	B	NTP	NIP/NPH	

Commodity

A

B

C

D

E

F

G

H

I

J

K

L

M

Remarks

A. Compatibility

D. Tank barge

F. Gas ship

I. IMO Gas Code

L. EPA Pollution

B. Subchapter D

E. I-Tankship

G. Annex's

J. IMO Pollution

M. CHRIS Code

C. Flam./Combust.

U="Unreg."

H. IMO Chem. Code

K. IMO Pollution

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
1- or 2-NITROPROPANE	42		D	Y	I		A	Y		@D	D	@X	NPM	NPN/NPP
NITROPROPANE (60%), NITROETHANE (40%) Mixture	42				PI		PA	PY			D		NNM	
ortho-, para-NITROTOLUENE	42				I		PA	Y		@C	@C	C	NIT	NIE/NTT/NTR = meta-
NITROUS OXIDE			LCG										NTO	
NONANE	31	Y	D				B	N			D		NAN	
NONANOIC ACID	4	Y					PB				D			
NONANOIC, TRIDECANOIC ACID Mixture		Y	E				PB							
NONENE	30	Y	D				B				B		NON	NNE for 1-
NONYL ALCOHOL	20	Y					PB	N		C	C		NNN	
NONYL PHENOL	21	Y	E				B	N		C	A		NNP	
NONYL PHENOL (ethoxylated)	40	Y					PB							
NONYL PHENOL SULFIDE	33						PA							NPS
NONYL PHENOL SULFIDE (30% or less)		Y	E				PB							NPS
NONYL PHENOL SULFIDE (90% or less)	33	P	E				PB							NPS
Octadecanol				See STEARYL ALCOHOL										
1-OCTADECENE	30	Y	E				PB					3		
OCTADECENOAMIDE (Oleamide)	10	Y	E				PB							
Octadecanol				See OLEYL ALCOHOL								3		
OCTANE	31	Y					PB	N		@D	D		OAN	IOO
OCTENE	30	Y					PB	PN			C		OTE	
OCTYL ACETATE		Y					PB				D			
OCTYL ALCOHOL		Y	E				B	N		@C	@C		OTA	IOA
OCTYL ALDEHYDE	19													
iso-OCTYL ALDEHYDE	19	Y					B						IOC	
OCTYL EPOXYTALLATE	34	Y					PB						OET	
OCTYL NITRATES, all isomers														
IMO Ref: 1,3-Pentadiene, w/ modifications.	34 (2)		E		PI		PA						ONE	
OCTYL PHENOL	21		E											
OCTYL PHTHALATE		Y					PB							
OILS:														
ANIMAL		Y					PB							
AVIATION F2300		Y					PB							
CLARIFIED	33	Y					PB						OCF	
COAL	33	Y					PB							
CROTON		Y					PB						OCR	CRO
CRUDE	33	Y	C/D				B						OIL	
DIESEL	33	Y	D/E				B						ODS	
RESIDUAL	33	Y	D/E				B							
ROAD	33	Y					PB						ORD	
TRANSFORMER	33	Y					PB						OTF	
Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code			L. EPA Pollution	
B. Subchapter D				E. I=Tankship						J. IMO Pollution			M. CHRIS Code	
C. Flam./Combust.				U="Unreg."						K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
EDIBLE OILS, including:														
BABASSU	34	Y					PB							
BEECHNUT		Y					PB							
CASTOR	34	Y	E				B				D		OCA	
COCOA BUTTER		Y					PB							
COCONUT	34	Y					PB				D		OCC	
COCONUT, METHYL ESTER	34	Y					PB							
COCONUT OIL, esterified		Y					PB							
COCONUT OIL FATTY ACID		Y					PB							
COD LIVER		Y					PB				D			
CORN	34	Y		See also MAIZE OIL			PB				D			
COTTON SEED	34	Y	E				B				D		OCS	
COTTON SEED FATTY ACID	34	Y					PB							
FISH	34	Y					PB						OFS	
GRAPESEED		Y		See also RAISIN SEED OIL			PB							
GROUNDNUT		Y		See also PEANUT OIL			PB							
HAZELNUT		Y					PB							
LARD	34	Y					PB						OLD	
MAIZE		Y		See also CORN OIL			PB							
MUSTARD SEED		Y					PB							
NUTMEG BUTTER		Y					PB							
OLIVE	34	Y	E				B				D		OOL	
PALM	34	Y					PB				D		OPM	
PEANUT	34	Y	E				B						OPN	
POPPY		Y					PB							
RAISIN SEED		Y		See also GRAPESEED OIL			PB							
RAPESEED	34	Y					PB				D			
RICE BRAN	34	Y					PB				D			
SAFFLOWER	34	Y					PB				D		OSF	
SALAD		Y					PB							
SESAME		Y					PB				D			
SOYA BEAN	34	Y	E				B				D		OSB	
SOYBEAN (epoxidized)	40	Y					PB						EVO	
SUNFLOWER SEED	34	Y					PB							
TUCUM	34	Y					PB						OTC	
VEGETABLE	34	Y					B						OVG	
WALNUT		Y					PB							

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code			L. EPA Pollution	
B. Subchapter D				E. I=Tankship						J. IMO Pollution			M. CHRIS Code	
C. Flam./Combust.				U="Unreg."				H. IMO Chem. Code		K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
FUEL OILS:														
No. 1 (Kerosene)	33	Y					B						ONN	
No. 1-D	33	Y					B						OOD	
No. 2	33	Y					B						OTW	
See also DIESEL OIL														
No. 2-D	33	Y					B						OTD	
No. 4	33	Y					B						OFR	
No. 5	33	Y					B						OFV	
No. 6	33	Y	E				B						OSX	
MISCELLANEOUS OILS, including:														
ABSORPTION	33	Y					B						OAS	
ALIPHATIC	33	Y	E				PB							
AROMATIC (5% or less Benzene)	33	Y	E				PB							
COAL TAR	33	Y					B						OCT	
GAS, low pour		Y					PB							
GAS, low sulphur		Y					PB							
HEARTCUT DISTILLATE	33	Y	D				PB							
LANOLIN		Y					PB							
LINSEED	33	Y					PB				D		OLS	
LUBRICATING	33	Y					B						OLB	
MINERAL	33	Y					B						OMN	
MINERAL SEAL	33	Y					B						OMS	
MOTOR	33	Y					B						OMT	
NEATSFOOT	33	Y	E				B						ONF	
OITICICA	34	Y					PB							
PENETRATING	33	Y					B						OPT	
PERILLA		Y					PB							
PILCHARD		Y					PB							
PINE		Y					PB							
RANGE	33	Y					PB						ORG	
RESIN	33	Y					B						ORS	
RESINOUS PETROLEUM	33	Y					PB							
ROSIN	33	Y	E				B						ORN	
SEAL	34	Y					PB							
SOAPSTOCK	34	Y					PB							
SPERM	33	Y	E				B						OSP	
SPINDLE	33	Y					B						OSD	
SPRAY	33	Y					B						OSY	
TALL	34	Y	E				B	N					OTL	
TALL, FATTY ACID	34	Y					PB							
Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge		F. Gas ship		I. IMO Gas Code		L. EPA Pollution				
B. Subchapter D				E. I=Tankship		G. Annex's		J. IMO Pollution		M. CHRIS Code				
C. Flam./Combust.				U="Unreg."		H. IMO Chem. Code		K. IMO Pollution						

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
MISCELLANEOUS OILS, including (cont):														
TANNER'S	33	Y					B						OTN	
TUNG	34	Y					PB				D			
TURBINE	33	Y					B						OTB	
WHALE		Y					PB							
WHITE (mineral)	33	Y					PB							
WOOD		Y					PB							
Oleamide	See OCTADECENOAMIDE	30												
alpha-OLEFINS (C6-C18)							PB PN			@C				
OLEIC ACID	4	Y	E				PB PN			D			OLA	
OLEUM (COPH)	0 (1,2)			Y	I		A Y			C	C		OLM	
OLEYL ALCOHOL (Octadecenol)		Y					PB				3			
ORGANIC AMINE 70 (mixture of high molecular weight alcohol amines)		Y					PB							
OXYALKYLATED ALKYL PHENOL FORMALDEHYDE	33	P	D											
OXYGEN							X						OXY	
n-PARAFFINS (C-10 to C-20)							PB PN				D			
PARALDEHYDE					I		PA Y			C	C		PDH	
PENTACHLOROETHANE	36			P	I		PA Y			B	B	X	PCE	
PENTADECANOL	20	Y					PB						PDC	
1,3-PENTADIENE (inhibited)	30			Y	I		PA Y				C	B	PDI	PDN
1,4-PENTADIENE														
IMO Ref: Isoprene													PDN	
PENTAETHYLENE GLYCOL		Y					PB							
PENTAETHYLENE HEXAMINE														
IMO Ref: Triethylenetetramine													PEH	
PENTAETHYLENEHEXAMINE, TETRAETHYLENEPENTAMINE Mixture	7						PA						PEP	
(iso-, n-) PENTANE	31	Y	A				PB	N		@C	@C			IPT/PTA
PENTASODIUM SALT of DIETHYLENETRIAMINE PENTAACETIC ACID Solution	43					U	PB PN				D			
1-PENTENE	30	Y					PB	N			C		PTE	
PENTENE, MISCELLANEOUS HYDROCARBON Mixture	30 (2)	P												
3-PENTENENITRILE	37		C		P								PNT	
PENTYL ALDEHYDE	19													
PERCHLOROETHYLENE	36			Y	I		PA			B	@B	@X	PER	
PETROLATUM	33	Y	D				B	N					PTL	
PHENOL	21		E	Y	I		A	Y		B	B	C	PHN	
PHENOLATED OILS														
IMO Ref: Coal tar naphtha													PHO	

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code			L. EPA Pollution	
B. Subchapter D				E. I-Tankship						J. IMO Pollution			M. CHRIS Code	
C. Flam./Combust.				U="Unreg."						K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
1-PHENYL-1-XYLYL ETHANE	32	P	E				PB	PN						
PHOSPHORIC ACID	1			Y	I		A	Y		D	D	D	PAC	
PHOSPHORUS (elemental)	(COPH) 0 (1)			Y	#		A			A	@A	X		PPW/PPR/PPB
PHOSPHORUS TRICHLORIDE							X				D	C	PPT	
PHOSPHORUS (yellow, or white)								Y		@A	A	X	PPW	PPR/PPB
PHOSPHOSULFURIZED BICYCLIC TERPENE		Y					B							
PHTHALATE PLASTICIZERS		Y												
PHTHALIC ANHYDRIDE (molten)	11		E	Y	I		A	Y		C	C	D	PAN	
Picoline	See METHYLPYRIDINE													
PINENE	30	Y					PB	N			A		PIN	
POLYALKENYL SUCCINIC ANHYDRIDE AMINE	33	Y					PB							
POLYAMINE, AMIDE Mixture		Y					B							
POLYBUTADIENE, HYDROXYL TERMINATED	20	P	E				PB							
POLYBUTENE	30	Y	E				B	PN			3		PLB	
POLYDIMETHYLSILOXANE	34													
POLYETHYLENE GLYCOLS	40	Y					PB							
POLYETHYLENE GLYCOL MONOALKYL ETHER							PN							
POLYETHYLENE POLYAMINES	7			Y	I		PA	Y		@C			PEB	
POLYISOBUTYLENE	See also POLYBUTENE	Y					PB							
POLYMERIZED ESTERS		Y					PB							
POLYMETHYLENE POLYPHENYL ISOCYANATE	12		E	Y	I		A	Y			D		PPI	
POLYMETHYLSILOXANE	34													
POLYPROPYLENE	30	Y					PB						PLP	
POLYPROPYLENE GLYCOLS	40	Y					PB	N			D		PGC	
POLYPROPYLENE GLYCOL METHYL ETHER	40	Y	E				B						PGM	
POLYSTYRENE DIALKYL MALEATE		Y	E				B							
PROPANE	(COPH) 31	Y	LFG		#	Y	A		B				PRP	
iso-PROPANOLAMINE (mono-)	8		E	Y	I		A	Y		C	C		MPA	PLA/PRM
n-PROPANOLAMINE			E		I		PA	Y			C		PLA	PRM
beta-PROPIOLACTONE							X	Y		B	D		PLT	
PROPIONALDEHYDE	19		C		I		A	Y		D	D		PAD	
PROPIONIC ACID	4		D	Y	I		A	Y		D	D	D	PNA	
PROPIONIC ANHYDRIDE	11		E		I		A	Y		D	C	D	PAH	
PROPIONITRILE	37				PI		PA	Y					PCN	
(iso-, n-) PROPYL ACETATE	34	Y	C				B	N		@C	@D		IAC/PAT	
(iso-, n-) PROPYL ALCOHOL	20	Y	C				B	N		@D	@D		IPA/PAL	
iso-PROPYLAMINE	7		A	Y	I		A	Y	B		C		IPP	IPO/PRA
n-PROPYLAMINE	7		B		I		A	Y		C	C	D	PRA	IPO/IPP
PROPYL BENZENE		Y					PB				C			
iso-Propyl benzene	See CUMENE													

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution										
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code										
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution											

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
PROPYLENE (COPH)	30	Y	LFG,		#	Y	A		B				PPL	
PROPYLENE BUTYLENE POLYMER	30	Y					PB						PBP	
PROPYLENE GLYCOL	20	Y	E				B	N			3		PPG	
PROPYLENE GLYCOL MONOETHYL ETHER		Y					B	N				D		
PROPYLENE GLYCOL MONOMETHYL ETHER		Y					B	N				D	PME	
PROPYLENE OXIDE (COPH)	16		A	Y	I		A	Y	B			D	B	POX
PROPYLENE POLYMER (in liquid mixtures)		Y					PB							
PROPYLENE TETRAMER See also DODECENE	30	Y					B	N			3		PTT	
PROPYLENE TRIMER See also TRIPROPYLENE		Y					B	N			3			
iso-PROPYL ETHER (inhibited)	41		A		I		PA	Y					IPE	
iso-Propyl toluene See para-CYMENE														
PSEUDOCUMENE See also 1,2,4-TRIMETHYLBENZENE	32	Y	D				B							TME
PYRIDINE	9		C	Y	I		A	Y		B	B	X	PRD	
PYRIDINE BASES														
IMO Ref: 4-Methylpyridine, w/ modification	9												PRB	
PYROLYSIS GASOLINE (containing more than 5% Benzene)						P	PI						GPY	
IMO Ref: Benzene, Hydrocarbon mix., cont. Benzene	33					P							PRF	
PYROLYSIS RESIDUAL FUELS	33						PA							
REFRIGERANT GASES:						Y			B				RFG	
DICHLORODIFLUOROMETHANE (See also)		Y										D	DCF	
DICHLOROMONOFUOROMETHANE													DFM	
DICHLOROTETRAFLUOROMETHANE													DTE	
(mono)CHLORODIFLUOROMETHANE (See also)		Y											MCF	
(mono)CHLOROTETRAFLUOROETHANE													MTE	
(mono)CHLOROTRIFLUOROMETHANE													MCM	
RUM	20	Y					B							
SALICYLALDEHYDE	19				P	PI	PA						SAL	
SEWAGE SLUDGE	43					U								
SILICON TETRACHLORIDE														
IMO Ref: Chlorosulfonic acid, w/ modifications.						PI	PA			D	D		STC	
SLUDGE														
(Stable, non-corrosive, non-toxic, and non-flammable.)						U								
SODIUM ACETATE, GLYCOL Solutions		Y	E											
SODIUM BOROHYDRIDE (15% or less), SODIUM														
HYDROXIDE Solution	5					PI	PA	Y			C		SBX SBH/SBI	
SODIUM BROMATE Solution						PU	B							
SODIUM CARBONATE Solutions	5					U	PB							
SODIUM CHLORATE Solution (50% or less)	0 (2)				Y	PI	PA	Y			3		SDD SDC	
SODIUM CYANIDE Solution (30% or less)	5						PA				@A @A		SCS SCN	

A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution	

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
SODIUM DICHROMATE Solution (70% or less)	0 (2)			P	PI		PA	Y	@C	B		SDL	SCR	
SODIUM DIMETHYL NAPHTHALENE SULFONATE Solution	34 (2)						PB							
SODIUM HYDROSULFIDE, AMMONIUM SULFIDE Solution IMO Ref: (mono) Ethylamine solution (72% or less) w/ modifications.		A		PI		PA	PY						SSA	
SODIUM HYDROSULFIDE Solution (45% or less)	5	C		I		PA	Y			B @D	SHR			
SODIUM HYDROXIDE Solution See CAUSTIC SODA Solution							Y	@C		C @C			SHD	
SODIUM HYPOCHLORITE Solution (15% or less)	5			I		PA	Y			C @B	SHP	SHC		
SODIUM LIGNO SULFONATES, SODIUM HYDROXIDE (not exceeding 1% by weight) Solution				U		PB								
SODIUM 2-MERCAPTOBENZOTHAZOL Solution	5			PI		PA	Y						SMB	
SODIUM N-METHYLDITHIOCARBAMATE Solution (33% or less) IMO Ref: Morpholine, w/ modifications.	7					PA							SMD	
SODIUM NAPHTHENATE Solutions (free alkali, 3% or less)				U										
SODIUM POLYACRYLATE Solution	43 (2)			U										
SODIUM SALT of FERRIC HYDROXYETHYLETHYLENEDIAMINE														
TRIACETIC ACID Solution	43			P	PI								STA	
SODIUM SILICATE Solution	43 (2)				U					D			SSC	
SODIUM SULFIDE Solutions				P					@B				SDS	
SODIUM SULFIDE, HYDROSULFIDE Solution (H2S greater than 200 ppm)	0 (1)			Y									SSJ	SSH/SSI/SSJ
SODIUM SULFIDE, HYDROSULFIDE Solution (H2S greater than 15 ppm, less than 200 ppm)				Y									SSI	
SODIUM SULFIDE, HYDROSULFIDE Solution (H2S, 15 ppm or less)				Y									SSH	
SODIUM SULFONATE		Y					PB							
SODIUM THIOCYANATE Solution IMO Ref: Cresols, w/ modifications.	0			P	PI		PA						STS	SCY
SORBITOL Solutions	20		E		U		B		@3				SBT	
STEARIC ACID	4	Y					PB						SRA	
STEARYL ALCOHOL See also DECYL OCTYL ALCOHOL		Y					PB		@3					
STODDARD SOLVENT	33	Y	D				PB						NSS	
STYRENE (monomer) (inhibited)	30		D	Y	I		A	Y	C	B	C	STY		
SUBSTITUTED PHENOL (in oil)		P	E											
SULFOLANE	39	Y					PB	N			3	SFL		
SULFUR (molten)	0 (1)		E	Y	I		A	Y			3	SXX		
SULFUR DIOXIDE (COPH)				Y	#	Y	PA	NS				SFD		
SULFURIC ACID	2 (2)			Y	I		A	Y	C	C	C	SFA		
SULFURIC ACID, Spent	2			Y				Y	C			SAC		

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge		F. Gas ship		I. IMO Gas Code		L. EPA Pollution				
B. Subchapter D				E. I=Tankship		G. Annex's		J. IMO Pollution		M. CHRIS Code				
C. Flam./Combust.				U="Unreg."		H. IMO Chem. Code		K. IMO Pollution						

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
SULFURIZED ALIPHATIC ALCOHOL		P	E											
SULFURIZED ALKYL PHENOL (in oil)		P	E											
SULFURIZED C4-C8 OLEFIN (in oil) (30% or less)		P	E											
SULFURIZED C4-C8 OLEFIN (in oil) (31% or more)		P	D											
SULFURIZED C6-C10 OLEFIN (in oil)		P	E											
TALLOW	34	Y	D				B			D	D		TLO	
TALLOW FATTY ACID	34 (1)	P	E				PB							
TALLOW FATTY ALCOHOL	20	Y					PB						TFA	
TALLOW NITRILE	37	Y	E				PB							
Telone	See 1,3-DICHLOROPROPENE													
1,1,2,2-TETRACHLOROETHANE	36			P	I		PA	Y			B	X	TEC	
1,1,2,2-TETRACHLOROETHYLENE	See PERCHLOROETHYLENE													
TETRADECANOL	20	Y					PB	PY		@B	B	X	TTN	
TETRADECENE	30	Y					PB				3		TTD	
TETRADECYLBENZENE	32	Y					PB						TDB	
TETRAETHYLENE GLYCOL	40	Y	E				B						TTG	
TETRAETHYLENEPENTAMINE	7		E	Y	I		A	Y			D		TTP	
Tetraethyl lead	See MOTOR FUEL ANTIKNOCK COMPOUNDS													
TETRAHYDROFURAN (stabilized)	41		C	P	I		PA	Y		A	A	PA	TEL	
TETRAHYDRONAPHTHALENE	32	Y	E				B	N		D	D	C	THF	
										C	C		THN	
Tetramethyl lead	See MOTOR FUEL ANTIKNOCK COMPOUNDS													
TETRAPROPYL BENZENE		Y					PB			A	A		TML	
TETRASODIUM SALT of EDTA Solution	43					U	PB	PN						
TITANIUM TETRACHLORIDE														
IMO Ref: Unassigned. Min. carriage req. proposed.	2						PA			D	D		TTT	
TOLUENE	32	Y	C				B	N		C	C	C	TOL	
TOLUENEDIAMINE	9				PI		PA	Y			C	X	TDA	
TOLUENE DIISOCYANATE	(COPH) 12		E	Y	I		A	Y		B	C	B	TDI	
TOLUENE DIISOCYANATE, DIPHENYLMETHANE														
DIISOCYANATE Mixtures														
IMO Ref: Toluene diisocyanate													TDD	
o-TOLUIDINE	9		E		PI		PA	Y			C		TLI	
TRIARYLPHOSPHATE	34	Y	E				PB							
TRIBUTYL PHOSPHATE	34	P	E				PB	N					TBP	
1,2,4-TRICHLOROETHYLENE	36		E		PI		PA	Y			B	B	TCB	
1,1,1-TRICHLOROETHANE	36				U		PB	N		@C	B	C	TCE	
1,1,2-TRICHLOROETHANE	36				I		PA	Y		@C	B	X	TCM	
TRICHLOROETHYLENE	36			Y	I		PA	Y			B	C	TCL	
1,2,3-TRICHLOROPROPANE	36			Y	PI		PA	Y			B		TCN	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	36				U		PB							
Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge				F. Gas ship		I. IMO Gas Code		L. EPA Pollution		
B. Subchapter D				E. I=Tankship				G. Annex's		J. IMO Pollution		M. CHRIS Code		
C. Flam./Combust.				U="Unreg."				H. IMO Chem. Code		K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
TRICRESYL (TRITOLYL) PHOSPHATE (containing less than 1% of the ortho isomer)		Y					PB	N		@B	A		TCP	
TRICRESYL (TRITOLYL) PHOSPHATE (containing 1% or more of the ortho isomer)					I		PA	Y		@B	A		TCO	
TRIDECANE	34	Y					PB							
TRIDECANOIC ACID		Y					PB							
TRIDECANOL	20	Y	E				B	N				3	TDN	
TRIDECENE	30	Y	E				PB					3	TDC	
TRIDECYLBENZENE	32	Y					PB							
TRIETHANOLAMINE	8		E	Y	I		A	Y		D	D		TEA	
TRIETHYLAMINE	7		C	Y	I		A	Y		C	C	D	TEN	
TRIETHYL BENZENE	32	Y	E				B	N			A		TEB	
TRIETHYLENE GLYCOL	40	Y	E				B	N				3	TEG	
TRIETHYLENE GLYCOL BUTYL ETHER Mixture	40	P	E				PB	PN				3		
TRIETHYLENE GLYCOL DIETHYL BUTYRATE		Y					PB							
TRIETHYLENE GLYCOL ETHER Mixture	40	P	E				PB							
TRIETHYLENE GLYCOL MONOMETHYL ETHER		Y					PB							
TRIETHYLENETETRAMINE	7		E	Y	I		A	Y			C		TET	
TRIETHYL PHOSPHATE	34	Y	E				PB				D			
TRIETHYL PHOSPHITE	34 (2)				PI		PA	PY					TPI	
TRIISOCTYL TRIMELLITATE	34 (2)	Y					PB							
TRIISOPROPANOLAMINE	8			Y			PB	N			D		TIP	
TRIISOPROPANOLAMINE SALT of 2,4-DICHLORO-PHENOXYACETIC ACID Solution														
IMO Ref: Aminoethylethanolamine, w/ modifications.	43			P	PI		PA	PY					TSA	
TRIMETHYLACETIC ACID			E		PI		PA	Y			D		TAA	
TRIMETHYL BENZENE	32	Y					PB			C	B		TMD/TME/TMB	
1,2,4-TRIMETHYL BENZENE								N			B		TME	
TRIMETHYL BENZENE, XYLENE, para-ETHYL TOLUENE Mixture		P	D											
2,2,4- and 2,4,4-TRIMETHYLHEXAMETHYLENE DIAMINE					PI		PA	Y			D		THA	
2,2,4- and 2,4,4-TRIMETHYLHEXAMETHYLENE DIISOCYANATE							PA	Y			B		THI	
2,2,4-TRIMETHYL PENTANEDIOL-1,3-DIISOBUTYRATE	34	Y	E				PB							
2,2,4-TRIMETHYL-1,3-PENTANEDIOL-1-ISOBUTYLATE							PB	PN		@C			TMP	
2,2,4-TRIMETHYL-3-PENTANOL-1-ISOBUTYRATE	34	Y	E				PB							
TRIMETHYL PHOSPHITE					PI		PA	Y					TPP	
TRIPROPYLENE	30	Y					PB							
TRIPROPYLENE GLYCOL	40	Y	E				PB	N			3		TGC	
TRIPROPYLENE GLYCOL MONOMETHYL ETHER	40	Y					PB	N			D			
TRISODIUM NITRILOTRIACETATE Solution	34			P	PI									

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
A. Compatibility				D. Tank barge						I. IMO Gas Code			L. EPA Pollution	
B. Subchapter D				E. I=Tankship						J. IMO Pollution			M. CHRIS Code	
C. Flam./Combust.				U="Unreg."						K. IMO Pollution				

BULK LIQUID CARGO FINDING AID

Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks
TRISODIUM SALT of N-HYDROXYETHYLETHYLENEDIAMINE	43				U		PB	PN						
TRIACETIC ACID Solution														
Tritolyl phosphate		Y					PB	N			A		TRP	
TRIXYLONYLPHOSPHATE	30	Y	D				B	N		B	B		TPT	
TURPENTINE														
TURPENTINE SUBSTITUTE (White spirit)		Y					PB							
UNDECANOL	20	Y					PB	PN			B		UND	
UNDECENE	30	Y					PB				B		UDC	
UNDECYL ALCOHOL								PN						
UNDECYLBENZENE	32	Y					PB						UDB	
UREA Solutions					U		PB							URE
UREA, AMMONIUM NITRATE Solution (more than 2% Ammonia)	6			P	I		PA						UAS	
UREA, AMMONIUM NITRATE Solution (2% or less Ammonia)	43				U		PB	N			D		ANU	
UREA, AMMONIUM PHOSPHATE Solutions					U			N			D			
UREA, AMMONIUM Solution, containing aqua Ammonia								Y			C		UAS	
(iso-, n-) VALERALDEHYDE	19		C	P	I		PA	Y		@C			VAK	IVA/VAL
VANILLIN BLACK LIQUOR	5			PY									VBL	
VINYL ACETATE (inhibited)	13		C	Y	I		A	Y		C	C	D	VAM	
VINYL ACETATE, FUMARATE COPOLYMER	34	Y	D/E				PB							
VINYL CHLORIDE (inhibited)	(COPH) 35		LFG	Y	#	Y	A		B			X	VCM	46 CFR 40
VINYL ETHYL ETHER (inhibited)	(COPH) 13				I		PA	Y	B		C		VEE	
VINYLDIENE CHLORIDE (inhibited)	35		A	Y	I		A	Y	B	B	B	D	VCI	
VINYL NEODECANATE (inhibited)	13		E		I		PA	Y					VND	
VINYL TOLUENE (inhibited)	13		D	P	I		A	Y					VNT	
WATER					U									
WAXES:														
CANDELILLA		Y					PB							
CARNAUBA	34	Y	E				B						WCA	
PARAFFIN	31	Y	E				B	N			3		WPF	
PETROLEUM		Y					PB							
WHITE SPIRIT		Y					PB	N		@B			WSP	
WHITE SPIRIT, low aromatic		Y					PB				B			
WINE		Y					PB	N			3			
WOOL GREASE		Y					PB							
(m-, o-, p-) XYLENE	32	Y	D				B	N		@C	C	C	XLX	XLX/XLO/XLP
XYLENE, ETHYL BENZENE Mixtures		P												
XYLENOLS					I		PA	Y			B	C	XYL	
ZINC BROMIDE, CALCIUM BROMIDE Solution	43				U									
ZINC DIALKYLDITHIOPHOSPHATE		Y	D/E				B						ZDP	
Commodity	A	B	C	D	E	F	G	H	I	J	K	L	M	Remarks

A. Compatibility	D. Tank barge	F. Gas ship	I. IMO Gas Code	L. EPA Pollution
B. Subchapter D	E. I=Tankship	G. Annex's	J. IMO Pollution	M. CHRIS Code
C. Flam./Combust.	U="Unreg."	H. IMO Chem. Code	K. IMO Pollution	