

FIGURE 1 TO PART 150—COMPATIBILITY CHART

Figure 1 - Compatibility chart

CARGO GROUPS	REACTIVE GROUPS																						
	1. NON-OXIDIZING MINERAL ACIDS	2. SULFURIC ACID	3. NITRIC ACID	4. ORGANIC ACIDS	5. CAUSTICS	6. AMMONIA	7. ALIPHATIC AMINES	8. ALKANOLAMINES	9. AROMATIC AMINES	10. AMIDES	11. ORGANIC ANHYDRIDES	12. ISOCYANATES	13. VINYL ACETATE	14. ACRYLATES	15. SUBSTITUTED ALLYLS	16. ALKYLENE OXIDES	17. EPICHLOROHYDRIN	18. KETONES	19. ALDEHYDES	20. ALCOHOLS, GLYCOLS	21. PHENOLS, CRESOLS	22. CAPROLACTAM SOLUTION	
1. NON-OXIDIZING MINERAL ACIDS	X	X																					1
2. SULFURIC ACID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
3. NITRIC ACID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3
4. ORGANIC ACIDS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
5. CAUSTICS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5
6. AMMONIA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	6
7. ALIPHATIC AMINES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	7
8. ALKANOLAMINES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8
9. AROMATIC AMINES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	9
10. AMIDES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10
11. ORGANIC ANHYDRIDES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	11
12. ISOCYANATES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	12
13. VINYL ACETATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13
14. ACRYLATES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
15. SUBSTITUTED ALLYLS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15
16. ALKYLENE OXIDES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	16
17. EPICHLOROHYDRIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17
18. KETONES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	18
19. ALDEHYDES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	19
20. ALCOHOLS, GLYCOLS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	20
21. PHENOLS, CRESOLS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
22. CAPROLACTAM SOLUTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	22
30. OLEFINS	X	X																					30
31. PARAFFINS	X	X																					31
32. AROMATIC HYDROCARBONS	X	X																					32
33. MISCELLANEOUS HYDROCARBON MIXTURES	X	X																					33
34. ESTERS	X	X																					34
35. VINYL HALIDES	X	X																					35
36. HALOGENATED HYDROCARBONS	X	X																					36
37. NITRILES	X	X																					37
38. CARBON DISULFIDE	X	X																					38
39. SULFOLANE	X	X																					39
40. GLYCOL ETHERS	X	X																					40
41. ETHERS	X	X																					41
42. NITROCOMPOUNDS	X	X																					42
43. MISCELLANEOUS WATER SOLUTIONS	X	X																					43

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Acetaldehyde	19	.....	AAD	
Acetic acid	4	2	AAC	
Acetic anhydride	11	.....	ACA	
Acetochlor	10	.....	ACG	
Acetone	18	2	ACT	
Acetone cyanohydrin	0	1, 2	ACY	
Acetonitrile	37	.....	ATN	
Acetophenone	18	.....	ACP	
Acrolein	19	2	ARL	
Acrylamide solution	10	.....	AAM	
Acrylic acid	4	2	ACR	
Acrylonitrile	15	2	ACN	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol	20	.....	ALE	
Adiponitrile	37	.....	ADN	
Alachlor	33	.....	ALH	
Alcohols (C13+)	20	.....	ALY	
Including:				
Oleyl alcohol (octadecanol)				
Pentadecanol				
Tallow alcohol				
Tetradecanol				
Tridecanol				
Alcoholic beverages	20		
Alcohol polyethoxylates	20		APU/APV/APW/AET

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Alcohol polyethoxylates, secondary	20			AEA/AEB
Alkanes (C6-C9)	31	1	ALK	
Including:				
<i>Heptanes</i>				
<i>Hexanes</i>				
<i>Nonanes</i>				
<i>Octanes</i>				
n-Alkanes (C10+)	31	1	ALJ	
Including:				
<i>Decanes</i>				
<i>Dodecanes</i>				
<i>Heptadecanes</i>				
<i>Tridecanes</i>				
<i>Undecanes</i>				
iso- & cyclo-Alkanes (C10-C11)	31	1	AKI	
iso- & cyclo-Alkanes (C12+)	31	1	AKJ	
Alkane (C14-C17) sulfonic acid, sodium salt solution	34		AKA	
Alkaryl polyether (C9-C20)	41		AKP	
Alkenyl(C11+)amide	11		AKM	
Alkenyl(C16-C20)succinic anhydride	11		AAH	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	32		AAP	
Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture	34		AAA	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomer).	34		APD	
Alkyl(C3-C4)benzenes	32		AKC	
Including:				
<i>Butylbenzenes</i>				
<i>Cumene</i>				
<i>Propylbenzenes</i>				
Alkyl(C5-C6)benzenes	32		AKD	
Including:				
<i>Amylbenzenes</i>				
<i>Heptylbenzenes</i>				
<i>Hexylbenzenes</i>				
<i>Octylbenzenes</i>				
Alkyl(C9+)benzenes	32		AKB	
Including:				
<i>Decylbenzenes</i>				
<i>Dodecylbenzenes</i>				
<i>Nonylbenzenes</i>				
<i>Tetradecylbenzenes</i>				
<i>Tetrapropylbenzenes</i>				
<i>Tridecylbenzenes</i>				
<i>Undecylbenzenes</i>				
Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17)	32		AIH	
Alkylbenzenesulfonic acid	0	1, 2		ABS/ABN
Alkylbenzenesulfonic acid, sodium salt solutions	33		ABT	
Alkyl dithiothiadiazole (C6-C24)	33		ADT	
Alkyl ester copolymer (C4-C20)	34		AES	
Alkyl(C7-C9) nitrates	34	2	AKN	ONE
Alkyl(C7-C11) phenol poly(4-12)ethoxylate	40		APN	
Alkyl(C8-C40) phenol sulfide	34		AKS	
Alkyl(C8-C9) phenylamine in aromatic solvents	9		ALP	
Alkyl(C9-C15) phenyl propoxylate	40			
Alkyl phthalates	34			
Alkyl(C10-C20, saturated and unsaturated) phosphite	34		AKL	
Alkyl polyglucoside solutions	43			AGL/AGN/AGO/AGP/ AGM
Alkyl sulfonic acid ester of phenol	34			
Allyl alcohol	15	2	ALA	
Allyl chloride	15	1	ALC	
Aluminium chloride, Hydrochloric acid solution	0	1	AHS	
Aluminum sulfate solution	43	2	ASX	ALM
2-(2-Aminoethoxy)ethanol	8		AEX	
Aminoethyldiethanolamine, Aminoethylethanolamine solution	8			
Aminoethylethanolamine	8		AEE	
N-Aminoethylpiperazine	7		AEP	
2-Amino-2-hydroxymethyl-1,3-propanediol solution	43		AHL	
2-Amino-2-methyl-1-propanol	8		APQ	APR
Ammonia, anhydrous	6		AMA	
Ammonia, aqueous (28% or less Ammonia) (<i>IMO cargo name</i>), see Ammonium hydroxide.	6			AMH
Ammonium bisulfite solution	43	2	ABX	ASU

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Ammonium hydrogen phosphate solution	0	1	AMI	
Ammonium hydroxide (28% or less Ammonia)	6		AMH	
Ammonium lignosulfonate solution, <i>see also</i> Lignin liquor	43			
Ammonium nitrate solution	0	1	ANR	AND/AMN
Ammonium nitrate, Urea solution (containing Ammonia)	6		UAS	
Ammonium nitrate, Urea solution (not containing Ammonia)	43		ANU	UAT
Ammonium polyphosphate solution	43		AMO	APP
Ammonium sulfate solution	43		AME	AMS
Ammonium sulfide solution	5		ASS	ASF
Ammonium thiocyanate, Ammonium thiosulfate solution	0	1	ACS	
Ammonium thiosulfate solution	43		ATV	ATF
Amyl acetate	34		AEC	IAT/AML/AAS/AYA
Amyl alcohol	20		AAI	IAA/AAN/ASE/APM
<i>Amylene, see</i> Pentene			AMZ	PTX
tert-Amyl methyl ether (<i>see also</i> , Methyl tert-pentyl ether)	41		AYE	
<i>Amyl methyl ketone, see</i> Methyl amyl ketone			AMK	MAK
Aniline	9		ANL	
Animal and Fish oils, n.o.s.	34		AFN	
<i>Including:</i>				
<i>Cod liver oil</i>				
<i>Lanolin</i>				
<i>Neatsfoot oil</i>				
<i>Pilchard oil</i>				
<i>Sperm oil</i>				
Animal and Fish acid oils and distillates, n.o.s.	34		AFA	
<i>Including:</i>				
<i>Animal acid oil</i>				
<i>Fish acid oil</i>				
<i>Lard acid oil</i>				
<i>Mixed acid oil</i>				
<i>Mixed general acid oil</i>				
<i>Mixed hard acid oil</i>				
<i>Mixed soft acid oil</i>				
Anthracene oil (Coal tar fraction), <i>see</i> Coal tar	33		AHO	COR
Apple juice	43			
Aryl polyolefin (C11-C50)	30		AYF	
Asphalt	33		ASP	ACU
Asphalt blending stocks, roofers flux	33		ARF	
Asphalt blending stocks, straight run residue	33		ASR	
Asphalt emulsion (<i>ORIMULSION</i>)	33		ASQ	
Aviation alkylates	33		AVA	GAV
Barium long chain alkaryl(C11-C50) sulfonate	34		BCA	
Barium long chain alkyl(C8-C14)phenate sulfide	34		BCH	
Behenyl alcohol	20			
Benzene	32		BNZ	
Benzene hydrocarbon mixtures (having 10% Benzene or more)	32		BHB	BHA
Benzenesulfonyl chloride	0	1, 2	BSC	
Benzene, Toluene, Xylene mixtures	32	2	BTX	
Benzene tricarboxylic acid, trioctyl ester	34			
Benzylacetate	34		BZE	
Benzyl alcohol	21		BAL	
Benzyl chloride	36		BCL	
Brake fluid base mixtures	20		BFX	
Bromochloromethane	36		BCM	
Butadiene	30		BDI	
Butadiene, Butylene mixtures (cont. Acetylenes)	30		BBM	
Butane	31	1	BMX	IBT/BUT
<i>1,4-Butanediol, see</i> Butylene glycol			BDO	BUG
<i>2-Butanone, see</i> Methyl ethyl ketone				
<i>Butene, see</i> Butylene				IBL/BTN
Butene oligomer	30		BOL	
Butyl acetate	34		BAX	IBA/BCN/BTA/BYA
Butyl acrylate	14	1	BAR	BAI/BTC
Butyl alcohol	20	2	BAY	IAL/BAN/BAS/BAT
Butylamine	7		BTY	IAM/BAM/BTL/BUA
Butylbenzene, <i>see</i> Alky(C3-C4)benzenes	32		BBE	AKC
Butyl benzyl phthalate	34		BPH	
Butyl butyrate	34		BBA	BUB/BIB
Butylene	30		BTN	IBL
Butylene glycol	20	2	BGN	BDO
<i>1,3-Butylene glycol, see</i> Butylene glycol				BUG
Butylene oxide	16	1	BTO	
Butyl ether	41		BTE	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Butyl formate	34		BFI/BFN
Butyl heptyl ketone	18	.....	BHK	
Butyl methacrylate	14	1	BMH	BMI/BMN
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture.	14	1	DER	
<i>Butyl methyl ketone, see Methyl butyl ketone</i> .....	.....	.....		MBK
Butyl phenol, Formaldehyde resin in Xylene	32	.....	
n-Butyl propionate	34	.....	BPN	
Butyl stearate	34	.....	
Butyl toluene	32	.....	BUE	
Butyraldehyde	19	.....	BAE	BAD/BTR
Butyric acid	4	.....	BRA	IBR
gamma-Butyrolactone	0	1, 2	BLA	
C9 Resinfeed (DSM)	32	2	CNR	
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture	34	.....	CPX	
<i>Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+)</i> .....	.....	.....		CAK
<i>Calcium bromide solution, see Drilling brines</i> .....	.....	.....		DRB
<i>Calcium bromide, Zinc bromide solution, see Drilling brine (containing Zinc salts).</i>	.....	.....		DZB
Calcium carbonate slurry	34	.....	
Calcium chloride solution	43	.....	CCS	CLC
Calcium hydroxide slurry	5	.....	COH	
Calcium hypochlorite solutions	5	.....		CHZ/CHU/CHY
Calcium lignosulfonate solution, <i>see also</i> Lignin liquor	43	.....	
Calcium long chain alkaryl sulfonate (C11-C50)	34	.....	CAY	
Calcium long chain alkyl phenates	34	.....		CAN/CAW
Calcium long chain alkyl phenate sulfide (C8-C40)	34	.....	CPI	
Calcium long chain alkyl salicylate (C13+)	34	.....	CAK	
Calcium long chain alkyl phenolic amine (C8-C40)	9	.....	CPQ	
Calcium nitrate solution	34	.....	CNU	
Calcium nitrate, Magnesium nitrate, Potassium chloride solution	34	.....	
Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture	33	.....	
Camphor oil	18	.....	CPO	
<i>Canola oil, see rapeseed oil under "oils, edible."</i> .....	.....	.....
Caprolactam solution	22	.....	CLS	
Caramel solutions	43	.....	
Carbolic oil	21	.....	CBO	
Carbon disulfide	38	.....	CBB	
Carbon tetrachloride	36	2	CBT	
Cashew nut shell oil (untreated)	4	.....	OCN	
Catoxid feedstock	36	2	CXF	
Caustic potash solution	5	2	CPS	
Caustic soda solution	5	2	CSS	
<i>Cetyl alcohol (hexadecanol), see Alcohols (C13+)</i> .....	.....	.....		ALY
Cetyl-Eicosyl methacrylate mixture	14	1	CEM	
<i>Cetyl-Stearyl alcohol, see Alcohols (C13+)</i> .....	.....	.....		ALY
Chlorinated paraffins (C10-C13)	36	.....	CLH	
Chlorinated paraffins (C14-C17) (with 52% Chlorine)	36	.....	CLJ	
Chlorine	0	1	CLX	
Chloroacetic acid solution	4	.....	CHM	CHL/MCA
Chlorobenzene	36	.....	CRB	
Chlorodifluoromethane (<i>monochlorodifluoromethane</i>)	36	.....	MCF	
Chloroform	36	.....	CRF	
Chlorohydrins	17	1	CHD	
4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution	9	.....	CDM	
Chloronitrobenzene	42	.....	CNO	
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one	18	2	CDP	
Chloropropionic acid	4	.....	CPM	CLA/CLP
Chlorosulfonic acid	0	1	CSA	
Chlorotoluene	36	.....	CHI	CTM/CTO/CRN
Choline chloride solutions	20	.....	CCO	
Citric acid	4	.....	CIS	CIT
Clay slurry, <i>see also</i> Kaolin clay slurry	43	.....	
Coal tar	33	.....	COR	OCT
Coal tar distillate	33	.....	CDL	
Coal tar, high temperature	33	.....	CHH	
Coal tar pitch	33	.....	CTP	
Cobalt naphthenate in solvent naphtha	34	.....	CNS	
Coconut oil, fatty acid	34	.....	CFA	
Copper salt of long chain (C17+) alkanolic acid	34	.....	CUS	CFT
Corn syrup	43	CSY	
Cottonseed oil, fatty acid	34	CFY	
Creosote	21	2	CCT	CCW/CWD

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Cresols	21		CRS	CRL/CSL/CSO
Cresylate spent caustic	5		CSC	
Cresylic acid	21		CRY	
Cresylic acid, dephenolized	21		CAD	
Cresylic acid, sodium salt solution (<i>IMO cargo name</i>), <i>see</i> Cresylate spent caustic.	5			CSC
Cresylic acid tar	21		CRX	
Crotonaldehyde	19	2	CTA	
<i>Cumene (isopropyl benzene)</i> , <i>see</i> Propylbenzene			CUM	PBY
1,5,9-Cyclododecatriene	30		CYT	
Cycloheptane	31	1	CYE	
Cyclohexane	31	1	CHX	
Cyclohexanol	20		CHN	
Cyclohexanone	18		CCH	
Cyclohexanone, Cyclohexanol mixtures	18	2	CYX	
Cyclohexyl acetate	34		CYC	
Cyclohexylamine	7		CHA	
1,3-Cyclopentadiene dimer	30		CPD	DPT
Cyclopentadiene, Styrene, Benzene mixture	30		CSB	
Cyclopentane	31	1	CYP	
Cyclopentene	30		CPE	
Cymene	32		CMP	
Decahydronaphthalene	33		DHN	
Decaldehyde	19			IDA/DAL
<i>Decane</i> , <i>see</i> n-Alkanes (C10+)			DCC	ALJ
Decanoic acid	4		DCO	
Decene	30		DCE	
Decyl acetate	34		DYA	
Decyl acrylate	14	1	DAT	IAI/DAR
Decyl alcohol	20	2	DAX	ISA/DAN
Decylbenzene, <i>see</i> Alkyl(C9+) benzenes	32		DBZ	AKB
Decyloxytetrahydro-thiophene dioxide	0	1, 2	DHT	
Degummed C9 (DOW)	33		DGC	
Dextrose solution, <i>see</i> Glucose solution	43		DTS	GLU
Diacetone alcohol	20	2	DAI	
Dialkyl(C10-C14) benzenes, <i>see</i> Alkyl(C9+) benzenes	32		DAB	AKB
Dialkyl(C8-C9) diphenylamines	9		DAQ	
Dialkyl(C7-C13) phthalates	34		DAH	
<i>Including:</i>				
<i>Diisodecyl phthalate</i>				
<i>Diisononyl phthalate</i>				
<i>Dinonyl phthalate</i>				
<i>Ditridecyl phthalate</i>				
<i>Diundecyl phthalate</i>				
Dibromomethane	36		DBH	
Dibutylamine	7		DBA	
<i>Dibutyl carbinol</i> , <i>see</i> Nonyl alcohol				NNS
Dibutyl hydrogen phosphonate	34		DHD	
Dibutylphenols	21			DBT/DBV, DBW
Dibutyl phthalate	34		DPA	
Dichlorobenzene	36		DBX	DBM/DBO/DBP
3,4-Dichloro-1-butene	36		DCD	DCB
Dichlorodifluoromethane	36		DCF	
1,1-Dichloroethane	36		DCH	
2,2'-Dichloroethyl ether	41		DEE	
1,6-Dichlorohexane	36		DHX	
2,2'-Dichloroisopropyl ether	36		DCI	
Dichloromethane	36		DCM	
2,4-Dichlorophenol	21		DCP	
2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution	43		DDE	
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution	0	1, 2	DAD	DDA/DSX
2,4-Dichlorophenoxyacetic acid, Triisopropano-lamine salt solution	43	2	DTI	
Dichloropropane	36		DPX	DPB/DPF/DPC/DPL
1,3-Dichloropropene	15	1	DPS	DPU/DPF
Dichloropropene, Dichloropropane mixtures	15	1	DMX	
2,2-Dichloropropionic acid	4		DCN	
Dicyclopentadiene, <i>see also</i> 1,3-Cyclopentadiene dimer	30		DPT	CPD
Diethanolamine	8		DEA	
<i>Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution</i> , <i>see</i> 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.				DDE
Diethylamine	7		DEN	
Diethylaminoethanol (<i>IMO cargo name</i>), <i>see</i> Diethylethanolamine	8			DAE
2,6-Diethylaniline	9		DMN	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Diethylbenzene	32		DEB	
Diethylene glycol	40	2	DEG	
<i>Diethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			DME	PAG
<i>Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i>			DEM	PAF
Diethylene glycol dibenzoate	34		DGZ	
Diethylene glycol dibutyl ether	40		DIG	
Diethylene glycol diethyl ether	40			
<i>Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>			DGE	PAG
<i>Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetates.</i>			DGA	PAF
<i>Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			DHE	PAG
<i>Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			DGM	PAG
<i>Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i>			DGR	PAF
Diethylene glycol phenyl ether	40		DGP	
Diethylene glycol phthalate	34		DGL	
<i>Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			DGO	PAG
Diethylenetriamine	7	2	DET	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	43			
Diethylethanolamine	8		DAE	
Diethyl ether (<i>IMO cargo name</i>), <i>see</i> Ethyl ether	41			EET
<i>Diethyl hexanol, see</i> Decyl alcohol				DAX
Di-(2-ethylhexyl)adipate	34		DEH	
Di-(2-ethylhexyl)phosphoric acid	1	1	DEP	
<i>Di-(2-ethylhexyl)phthalate, see</i> Dioctyl phthalate	34		DIE	DOP
Diethyl phthalate	34		DPH	
Diethyl sulfate	34		DSU	
Diglycidyl ether of Bisphenol A	41		BDE	BPA
Diglycidyl ether of Bisphenol F	41		DGF	
Diheptyl phthalate	34		DHP	
Di-n-hexyl adipate	34		DHA	
Dihexyl phthalate	34			
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5		DDH	
Diisobutylamine	7		DBU	
Diisobutyl carbinol (<i>commercial cargo name</i>), <i>see</i> Nonyl alcohol	20		DBC	NNS
Diisobutylene	30		DBL	
Diisobutyl ketone	18		DIK	
Diisobutyl phthalate	34		DIT	
<i>Diisodecyl phthalate, see</i> Dialkyl(C7-C13) phthalates			DID	DAH
Diisononyl adipate	34		DNY	
<i>Diisononyl phthalate, see</i> Dialkyl(C7-C13) phthalates			DIN	DAH
Diisooctyl phthalate	34		DIO	
Diisopropanolamine	8		DIP	
Diisopropylamine	7		DIA	
Diisopropylbenzene	32		DIX	
Diisopropyl naphthalene	32		DII	
N,N-Dimethylacetamide	10		DAC	
N,N-Dimethylacetamide solution	10		DLS	
Dimethyl adipate	34		DLA	
Dimethylamine	7		DMA	
Dimethylamine solution	7			DMG/DMY/DMC
<i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.</i>				CDM
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution.</i>				DAD/(DDA/DSX)
2,6-Dimethylaniline	9		DMM	
<i>Dimethylbenzene, see</i> Xylenes				XLX
Dimethylcyclosiloxane hydrolyzate	34			
N,N-Dimethylcyclohexylamine	7		DXN	
N,N-Dimethyldodecylamine (<i>IMO cargo name</i>), <i>see</i> Dodecyl dimethylamine	7		DDY	
Dimethylethanolamine	8		DMB	
Dimethylformamide	10		DMF	
Dimethyl furan	41			
Dimethyl glutarate	34		DGT	
Dimethyl hydrogen phosphite	34	2	DPI	
Dimethyl naphthalene sulfonic acid, sodium salt solution	34	2	DNS	
Dimethyloctanoic acid	4		DMO	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Dimethyl phthalate	34		DTL	
Dimethylpolysiloxane, <i>see</i> Polydimethylsiloxane	34		DMP	
2,2-Dimethylpropane-1,3-diol	20		DDI	
Dimethyl succinate	34		DSE	
Dinitrotoluene	42		DNM	DTT/DNL/DNU
<i>Dinonyl phthalate, see</i> Dialkyl(C7-C13) phthalates			DIF	DAH
Diocetyl phthalate	34		DOP	DIE
1,4-Dioxane	41		DOX	
Dipentene	30		DPN	
Diphenyl	32		DIL	
Diphenylamine (molten)	9		DAG	DAM/LRM
Diphenylamines, alkylated	7		DAJ	
Diphenylamine, reaction product with 2,2,4-trimethylpentene	7		DAK	
Diphenyl, Diphenyl ether mixture	33		DDO	DTH
Diphenyl ether	41		DPE	
Diphenyl ether, Diphenyl phenyl ether mixture	41		DOB	
Diphenylmethane diisocyanate	12		DPM	
Diphenyliol propane-Epichlorohydrin resins	0	1	DPR	
<i>Diphenyl oxide, see as</i> diphenyl ether				
Di-n-propylamine	7		DNA	
Dipropylene glycol	40		DPG	
<i>Dipropylene glycol butyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.			DBG	PAG
Dipropylene glycol dibenzoate	34		DGY	
<i>Dipropylene glycol methyl ether, see</i> Poly (2-8)alkylene glycol monoalkyl(C1-C6) ether.			DPY	PAG
Distillates, flashed feed stocks	33		DFF	
Distillates, straight run	33		DSR	
Dithiocarbamate ester (C7-C35)	34		DHO	
Ditridecyl adipate	34			
<i>Ditridecyl phthalate, see</i> Dialkyl(C7-C13) phthalates			DTP	DAH
<i>Diundecyl phthalate, see</i> Dialkyl(C7-C13) phthalates			DUP	DAH
Dodecane	31	1	DOC	ALJ
tert-Dodecanethiol	0	2	DDL	
Dodecanol	20		DDN	LAL
Dodecene	30		DOZ	DDC/DOD
2-Dodecenylsuccinic acid, dipotassium salt solution	34			DSP
Dodecyl alcohol (<i>IMO cargo name</i>), <i>see</i> Dodecanol			DDN	DDN
Dodecylamine, Tetradecylamine mixture	7		DTA	
Dodecylbenzene, <i>see</i> Alkyl(C9+)benzenes	32	2	DDB	AKB
Dodecylbenzenesulfonic acid	0	1, 2	DSA	
Dodecyltrimethylamine, Tetradecyltrimethylamine mixture	7		DOT	
Dodecyl diphenyl ether disulfonate solution	43		DOS	
Dodecyl hydroxypropyl sulfide	0	1	DOH	
Dodecyl methacrylate	14	1	DDM	
Dodecyl-Octadecyl methacrylate mixture	14	1	DOM	
Dodecyl-Pentadecyl methacrylate mixtures	14	1	DDP	
Dodecyl phenol	21		DOL	
Dodecyl xylene	32	2	DXY	
Drilling brine (containing Calcium, Potassium or Sodium salts)	43			DRB
Drilling brine (containing Zinc salts)	43		DZB	
Drilling mud (low toxicity) (<i>if flammable or combustible</i>)	33			DRM
Drilling mud (low toxicity) (<i>if non-flammable or non-combustible</i>)	43			DRM
Epichlorohydrin	17	1	EPC	
Epoxy resin	18			
<i>ETBE, see</i> Ethyl tert-butyl ether				EBE
Ethane	31	1	ETH	
Ethanolamine (<i>monoethanolamine</i>)	8		MEA	
<i>2-Ethoxyethanol, see</i> Ethylene glycol monoalkyl ethers			EEO	EGC
2-Ethoxyethyl acetate	34		EEA	
<i>Ethoxylated alcohols, C11-C15, see the alcohol polyethoxylates</i>				
Ethoxylated long chain (C16+) alkyloxyalkanamine	8		ELA	
Ethoxy triglycol	40		ETG	
Ethyl acetate	34		ETA	
Ethyl acetoacetate	34		EAA	
Ethyl acrylate	14	1	EAC	
Ethyl alcohol	20	2	EAL	
Ethylamine	7	2	EAM	
Ethylamine solution	7		EAN	
Ethyl amyl ketone	18		EAK	ELK
Ethylbenzene	32		ETB	
Ethyl butanol	20		EBT	
N-Ethyl-n-butylamine	7		EBA	

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Ethyl tert-butyl ether	41	2	EBE	
Ethyl butyrate	34		EBR	
Ethyl chloride	36		ECL	
Ethyl cyclohexane	31	1	ECY	
N-Ethylcyclohexylamine	7		ECC	
Ethylene	30		ETL	
Ethyleneamine EA 1302	7	2	EMX	EDA
Ethylene carbonate	34			
Ethylene chlorohydrin	20		ECH	
Ethylene cyanohydrin	20		ETC	
Ethylenediamine	7	2	EDA	EMX
Ethylenediaminetetraacetic acid, tetrasodium salt solution	43		EDS	
Ethylene dibromide	36		EDB	
Ethylene dichloride	36	2	EDC	
Ethylene glycol	20	2	EGL	
Ethylene glycol acetate	34		EGO	
<i>Ethylene glycol butyl ether, see Ethylene glycol monoalkyl ethers</i>			EGM	EGC
<i>Ethylene glycol tert-butyl ether, see Ethylene glycol monoalkyl ethers</i>				EGC
Ethylene glycol butyl ether acetate	34		EMA	
Ethylene glycol diacetate	34		EGY	
Ethylene glycol dibutyl ether	40		EGB	
<i>Ethylene glycol ethyl ether, see Ethyl glycol monoalkyl ethers</i>			EGE	EGC/EEO
<i>Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate</i>			EGA	EEA
Ethylene glycol hexyl ether	40		EGH	
<i>Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers</i>			EGI	EGC
<i>Ethylene glycol methyl butyl ether, see Ethylene glycol monoalkyl ethers</i> ..	40		EMB	EGC
<i>Ethylene glycol methyl ether, see Ethylene glycol monoalkyl ethers</i>			EME	EGC
Ethylene glycol methyl ether acetate	34		EGT	
Ethylene glycol monoalkyl ethers	40		EGC	
<i>Including:</i>				
<i>Ethylene glycol butyl ether</i>				
<i>Ethylene glycol isobutyl ether</i>				
<i>Ethylene glycol tert-butyl ether</i>				
<i>Ethylene glycol ethyl ether</i>				
<i>Ethylene glycol hexyl ether</i>				
<i>Ethylene glycol methyl ether</i>				
<i>Ethylene glycol propyl ether</i>				
<i>Ethylene glycol isopropyl ether</i>				
Ethylene glycol phenyl ether	40		EPE	
Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture	40		EDX	
<i>Ethylene glycol propyl ether, see Ethylene glycol monoalkyl ethers</i>			EGP	EGC
<i>Ethylene glycol iso-propyl ether, see Ethylene glycol monoalkyl ethers</i>			EGI	EGC
Ethylene oxide	0	1	EOX	
Ethylene oxide, Propylene oxide mixture	16	1	EPM	
Ethylene-Propylene copolymer	30			
Ethylene-Vinyl acetate copolymer emulsion	43			
Ethyl ether	41		EET	
Ethyl-3-ethoxypropionate	34		EET	
<i>2-Ethylhexaldehyde, see Octyl aldehydes</i>			HA	OAL
<i>2-Ethylhexanoic acid, see Octanoic acids</i>			EHO	OAY
<i>2-Ethylhexanol, see Octanol</i>			EHX	OCX
2-Ethylhexyl acrylate	14	1	EAI	
2-Ethylhexylamine	7		EHM	
Ethyl hexyl phthalate	34		EHE	
<i>Ethyl hexyl tallate</i>	34		EHT	
2-Ethyl-1-(hydroxymethyl)propane-1,3-diol, C8-C10 ester	34		EHD	
Ethylidene norbornene	30	2	ENB	
Ethyl methacrylate	14	1	ETM	
N-Ethylmethylallylamine	7		EML	
2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline	9		EEM	
o-Ethyl phenol	21		EPL	
Ethyl propionate	34		EPR	
2-Ethyl-3-propylacrolein	19	2	EPA	
Ethyl toluene	32		ETE	
Fatty acids (saturated, C13+), <i>see Fatty acids (saturated, C14+)</i>				
Fatty acids (saturated, C14+)	34		FAD	SRA
Ferric chloride solution	1	1	FCS	FCL
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution ..	43	2	FHX	STA
Ferric nitrate, Nitric acid solution	3		FNN	
Fish solubles (<i>water based fish meal extracts</i>)	43		FSO	
Fluorosilicic acid	1	1	FSJ	
Formaldehyde, Methanol mixtures	19	2	MTM	
Formaldehyde solution	19	2	FMS	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Formamide	10		FAM	
Formic acid	4	2	FMA	
Fructose solution	43			
Fumaric adduct of Rosin, water dispersion	43		FAR	
Furfural	19		FFA	
Furfuryl alcohol	20	2	FAL	
Gas oil, cracked	33		GOC	
Gasoline blending stock, alkylates	33		GAK	
Gasoline blending stock, reformates	33		GRF	
Gasolines:				
Automotive (not over 4.23 grams lead per gal.)	33		GAT	
Aviation (not over 4.86 grams lead per gal.)	33		GAV	AVA
Casinghead (natural)	33		GCS	
Polymer	33		GPL	
Straight run	33		GSR	
Glucose solution	43		GLU	DTS
Glutaraldehyde solution	19		GTA	
Glycerine	20	2	GCR	
Glycerine, Dioxanedimethanol mixture	20		GDM	
Glycerol monooleate	20		GMO	
Glycerol polyalkoxylate	34			
Glyceryl triacetate	34			
Glycidyl ester of C10 trialkyl acetic acid (IMO cargo name), see Glycidyl ester of tridecyl acetic acid.	34			GLT
Glycidyl ester of tridecylacetic acid	34		GLT	
Glycidyl ester of Versatic acid, see Glycidyl ester of tridecylacetic acid				GLT
Glycine, sodium salt solution	7			EGY
Glycol diacetate, see Ethylene glycol diacetate				
Glycolic acid solution	4		GLC	
Glyoxal solutions	19		GOS	
Glyoxylic acid	4		GAC	
Glyphosate solution (not containing surfactant) (See also ROUNDUP)	7		GIO	
Heptadecane, see n-Alkanes (C10+)				ALJ
Heptane	31	1	HMX	ALK (HPI/HPT)
n-Heptanoic acid	4		HEP	
Heptanol	20		HTX	HTN
Heptene	30		HPX	HTE
Heptyl acetate	34		HPE	
Herbicide (C15-H22-NO2-Cl), see Metolachlor				MCO
Hexadecanol (cetyl alcohol), see Alcohols (C13+)				ALY
1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)naphthalene mixture	32			
Hexaethylene glycol, see Polyethylene glycol				
Hexamethylene glycol	20			
Hexamethylenediamine	7		HME	HMD/HMC
Hexamethylenediamine solution	7		HMC	HMD/HME
Hexamethylenediamine adipate solution	43		HAM	
Hexamethylene diisocyanate	12		HDI	
Hexamethylenetetramine	7		HMT	
Hexamethylenetetramine solutions	7		HTS	
Hexamethylenimine	7		HMI	
Hexane	31	2	HXS	ALK (IHA/HXA)
Hexanoic acid	4		HXO	
Hexanol	20		HXN	
Hexene	30		HEX	HXE/HXT/MPN/MTN
Hexyl acetate	34		HAE	HSA
Hexylene glycol	20		HXG	
HiTec 321	7		HIT	
Hog grease, see Lard				
Hydrochloric acid	1	1	HCL	
Hydrofluorosilicic acid, see Fluorosilicic acid			HFS	FSJ
bis(Hydrogenated tallow alkyl)methyl amines	7		HTA	
Hydrogen peroxide solutions	0	1		HPN/HPS/HPO
2-Hydroxyethyl acrylate	14	2	HAI	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution	43		HET	FHX
N,N-bis(2-Hydroxyethyl) oleamide	10		HOO	
2-Hydroxy-4-(methylthio)butanoic acid	4		HBA	
Hydroxy terminated polybutadiene (IMO cargo name), see Polybutadiene, hydroxy terminated.	20			
alpha-hydro-omega-Hydroxytetradeca(oxytetramethylene), Poly(tetramethylene ether) glycols (mw 950-1050)	see			HTO
Icosa(oxypropane-2,3-diyl)s	20		IOP	
Isophorone	18	2	IPH	
Isophorone diamine	7		IPI	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Isophorone diisocyanate	12	IPD	
Isoprene	30	.....	IPR	
Isoprene concentrate (Shell)	30	.....	ISC	
<i>Isopropylbenzene (cumene)</i> , see Propylbenzene .....	.....	.....		PBY
Jet fuels:				
JP-4	33	.....	JPF	
JP-5	33	.....	JPV	
JP-8	33	.....	JPE	
Kaolin clay slurry	43	.....	
Kerosene	33	.....	KRS	
Ketone residue	18	.....	KTR	
Kraft black liquor	5	.....		KPL
Kraft pulping liquors (<i>Black, Green, or White</i>)	5	.....	KPL	
Lactic acid	0	1, 2	LTA	
Lactonitrile solution	37	.....	LNI	
Lard	34	.....	
Latex (ammonia inhibited)	30	.....	LTX	
Latex, liquid synthetic	43	.....	LLS	LTX
Lauric acid	34	.....	LRA	
<i>Lauryl polyglucose</i> , see Alkyl(C12 -C14) polyglucoside solution (55% or less) .....	.....	.....	LAP	AGM
Lecithin	34	.....	LEC	
Lignin liquor	43	.....	
<i>Lignin sulfonic acid, sodium salt solution</i> , see Sodium lignosulfonate solution .....	.....	.....
<i>d-Limonene</i> , see Dipentene .....	.....	.....
Liquid Streptomyces solubles	43	.....	
Long chain alkaryl polyether (C11-C20)	41	.....	LCP	
Long chain alkaryl sulfonic acid (C16-C60)	0	1, 2	LCS	
Long chain alkylphenate/Phenol sulfide mixture	21	.....	LPS	
Long chain polyetheramine in alkyl(C2-C4)benzenes	7	.....	LCE	
L-Lysine solution	43	.....	LYS	
Magnesium chloride solution	0	1, 2		
Magnesium hydroxide slurry	5	.....	
Magnesium long chain alkaryl sulfonate (C11-C50)	34	.....	MAS	MSE
Magnesium long chain alkyl phenate sulfide (C8-C20)	34	.....	MPS	
Magnesium long chain alkyl salicylate (C11+)	34	.....	MLS	
<i>Magnesium nonyl phenol sulfide</i> , see Magnesium long chain alkyl phenate sulfide (C8-C20) .....	.....	.....		MPS
<i>Magnesium sulfonate</i> , see Magnesium long chain alkaryl sulfonate (C11-C50) .....	.....	.....	MSE	MAS
Maleic anhydride	11	.....	MLA	
Mercaptobenzothiazol, sodium salt solution (<i>IMO cargo name</i>), see Sodium-2-mercaptobenzothiazol solution	5	.....		SMB
Mesityl oxide	18	2	MSO	
Metam sodium solution	7	.....	MSS	SMD
Methacrylic acid	4	.....	MAD	
Methacrylic resin in Ethylene dichloride	14	1	MRD	
Methacrylonitrile	15	2	MET	
Methane	31	1	MTH	
3-Methoxy-1-butanol	20	.....	
3-Methoxybutyl acetate	34	.....	MOA	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide (<i>IMO cargo name</i>), see Metolachlor	34	.....		MCO
1-Methoxy-2-propyl acetate	34	.....	MPO	
<i>Methoxy triglycol</i>	40	.....	MTG	
Methyl acetate	34	.....	MTT	
Methyl acetoacetate	34	.....	MAE	
Methyl acetylene, Propadiene mixture	30	.....	MAP	
Methyl acrylate	14	1	MAM	
Methyl alcohol	20	2	MAL	
Methylamine solutions	7	.....	MSZ	
Methyl amyl acetate	34	.....	MAC	
Methyl amyl alcohol	20	.....	MAA	MIC
Methyl amyl ketone	18	.....	MAK	
Methyl bromide	36	.....	MTB	
<i>Methyl butanol</i> , see the amyl alcohols .....	.....	.....		AAI
Methyl butenol	20	.....	MBL	
<i>Methyl butenes (tert-amylenes)</i> , see Pentene .....	.....	.....		PTX
Methyl tert-butyl ether	41	2	MBE	
Methyl butyl ketone	18	2	MBK	
Methylbutynol, see 2-Methyl-2-hydroxy-3-butyne	20	MBY	MHB
3-Methyl butyraldehyde	19		

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Methyl butyrate	34	MBU	
Methyl chloride	36	.....	MTC	
Methylcyclohexane	31	1	MCY	
Methylcyclopentadiene dimer	30	.....	MCK	
Methyl diethanolamine	8	.....	MDE	MAB
<i>Methylene chloride, see Dichloromethane</i> .....	.....	.....	.....	DCM
2-Methyl-6-ethylaniline	9	.....	MEN	
Methyl ethyl ketone	18	2	MEK	
2-Methyl-5-ethylpyridine	9	.....	MEP	
Methyl formate	34	.....	MFM	
N-Methylglucamine solution	43	.....	MGC	
Methyl heptyl ketone	18	.....	MHK	
2-Methyl-2-hydroxy-3-butyne	20	.....	MHB	
Methyl isoamyl ketone	18	.....	.....	MAK
<i>Methyl isobutyl carbinol, see Methyl amyl alcohol</i> .....	.....	.....	MIC	MAA
Methyl isobutyl ketone	18	2	MIK	
Methyl methacrylate	14	1	MMM	
3-Methyl-3-methoxybutanol	20	.....	.....
3-Methyl-3-methoxybutyl acetate	34	.....	.....
Methyl naphthalene	32	.....	MNA	
Methylolureas	19	.....	MUS	
2-Methyl pentane	31	1	.....	IHA
<i>2-Methyl-1-pentene, see Hexene</i> .....	.....	.....	MPN	HEX
<i>4-Methyl-1-pentene, see Hexene</i> .....	.....	.....	MTN	HEX
Methyl tert-pentyl ether (<i>IMO cargo name</i>), <i>see tert-Amyl methyl ether</i>	41	.....	.....	AYE
2-Methyl-1,3-propanediol	20	.....	MDL	
Methyl propyl ketone	18	.....	MKE	
Methylpyridine	9	.....	.....	MPR/MPE/MPF
N-Methyl-2-pyrrolidone	9	2	MPY	
Methyl salicylate	34	.....	MES	
alpha-Methylstyrene	30	.....	MSR	
3-(Methylthio)propionaldehyde	19	.....	MTP	
Metolachlor	34	.....	MCO	
Milk	43	.....	.....
Mineral spirits	33	.....	MNS	
Molasses	20	.....	.....
Molasses residue	0	1	.....
Monochlorodifluoromethane	36	.....	MCF	
<i>Monoethanolamine, see Ethanolamine</i> .....	.....	.....	.....
<i>Monoisopropanolamine, see Propanolamine</i> .....	.....	.....	.....
Morpholine	7	2	MPL	
Motor fuel antiknock compounds containing lead alkyls	0	1	MFA	
<i>MTBE, see Methyl tert-butyl ether</i> .....	.....	.....	.....	MBE
Myrcene	30	.....	MRE	
Naphtha:				
Aromatic	33	.....	.....
Coal tar solvent	33	.....	NCT	
Heavy	33	.....	.....
Paraffinic	33	.....	.....
Petroleum	33	.....	PTN	
Solvent	33	.....	NSV	
Stoddard solvent	33	.....	NSS	
Varnish Makers' and Painters'	33	.....	NVM	
Naphthalene	32	.....	NTM	
Naphthalene still residue	32	2	NSR	
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution ..	0	1	NFS	
Naphthalene sulfonic acid, sodium salt solution	34	.....	NSA	
Naphthenic acid	4	.....	NTI	
Naphthenic acid, sodium salt solution	43	.....	NTS	
Neodecanoic acid	4	.....	NEA	
NIAX POLYOL APP 240C	0	1, 2	NXP	
Nitrating acid	0	1	NIA	
Nitric acid (70% or less)	3	.....	NCD	
Nitric acid (greater than 70%)	0	1	.....	NAC
Nitrobenzene	42	.....	NTB	
<i>o-Nitrochlorobenzene, see Chloronitrobenzene</i> .....	.....	.....	.....	CNO
Nitroethane	42	.....	NTE	
Nitroethane, 1-Nitropropane mixtures	42	.....	NNO	
<i>o</i> -Nitrophenol	0	1, 2	NTP	NIP/NPH
Nitropropane	42	.....	NPM	NPN/NPP
Nitropropane, Nitroethane mixture	42	NNO (NNM/NNL)
Nitrotoluene	42	NIT	NIE/NTT/NTR
Nonane	31	1	NAX	ALK (NAN)

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Nonanoic acid	4	NNA	NAI/NIN
Nonanoic, Tridecanoic acid mixture	4	.....	NAT	
Nonene	30	.....	NOO	NON/NNE
Nonyl acetate	34	.....	NAE	
Nonyl alcohol	20	2	NNS	NNI/NNN/DBC AKB
<i>Nonylbenzene, see Alkyl(C9+)benzenes</i>				
Nonyl methacrylate	14	1	NMA	
Nonyl phenol	21	.....	NNP	
Nonyl phenol poly(4+)ethoxylates	40	.....	NPE	
<i>Nonyl phenol sulfide solution, see Alkyl phenol sulfide (C8-C40)</i>				AKS/NPS
Noxious Liquid Substance, n.o.s. (NLS's)	0	1		
<i>1-Octadecene, see the olefin or alpha-olefin entries</i>				
Octadecenoamide	10	.....	ODD	
<i>Octadecenol (oleyl alcohol), see Alcohols (C13+)</i>				ALY
Octane	31	1	OAX	ALK (IOO/OAN)
Octanoic acid	4	.....	OAY	OAA/EHO
Octanol	20	2	OCX	IOA/OTA/EHX
Octene	30	.....	OTX	OTE
n-Octyl acetate	34	.....	OAF	OAE
<i>Octyl alcohol, see Octanol</i>				OCX
Octyl aldehyde	19	.....	OAL	IOC/OLX/EHA
Octyl decyl adipate	34	.....	ODA	
<i>Octyl nitrate, see Alkyl(C7-C9) nitrates</i>			ONE	AKN
Octyl phenol	21	.....	
<i>Octyl phthalate, see Dioctyl phthalate</i>				DOP
Oil, edible:				
Beechnut	34	.....	OBN	VEO
Castor	34	.....	OCA	VEO
Cocoa butter	34	.....	OCB	VEO
Coconut	34	2	OCC	VEO
Cod liver	34	.....	OCL	AFN
Corn	34	.....	OCO	VEO
Cottonseed	34	.....	OCS	VEO
Fish	34	2	OFS	AFN
Groundnut	34	.....	OGN	VEO
Hazelnut	34	.....	OHN	VEO
Lard	34	.....	OLD	AFN
Maize	34	.....		VEO (OCO)
Nutmeg butter	34	.....	ONB	VEO
Olive	34	.....	OOL	VEO
Palm	34	2	OPM	VEO
Palm kernel	34	.....	OPO	VEO
Peanut	34	.....	OPN	VEO
Poppy	34	.....	OPY	VEO
Poppy seed	34	.....		VEO
Raisin seed	34	.....	ORA	VEO
Rapeseed	34	.....	ORP	VEO
Rice bran	34	.....	ORB	VEO
Safflower	34	.....	OSF	VEO
Salad	34	.....	OSL	VEO
Sesame	34	.....	OSS	VEO
Soya bean	34	.....	OSB	VEO
Sunflower seed	34	.....	OSN	VEO
Tucum	34	.....	OTC	VEO
Vegetable	34	.....	OVG	VEO
Walnut	34	.....	OWN	VEO
Oil, fuel:				
No. 1	33	.....	OON	
No. 1-D	33	.....	OOD	
No. 2	33	.....	OTW	
No. 2-D	33	.....	OTD	
No. 4	33	.....	OFR	
No. 5	33	.....	OFV	
No. 6	33	.....	OSX	
Oil, misc:				
Aliphatic	33	.....	
Animal	34	.....	OMA	AFN
Aromatic	33	.....	
Clarified	33	.....	OCF	
Coal	33	.....	
Coconut oil, fatty acid methyl ester	34	OCM	
Cotton seed oil, fatty acid	34	CFY	
Crude	33	OIL	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Diesel	33		ODS	
Gas, high pour	33			
Gas, low pour	33			
Gas, low sulfur	33			
Heartcut distillate	33			
Lanolin	34		OLL	AFN
Linseed	33		OLS	
Lubricating	33		OLB	
Mineral	33		OMN	
Mineral seal	33		OMS	
Motor	33		OMT	
Neatsfoot	33		ONF	AFN
Oiticica	34		OOI	
Palm oil, fatty acid methyl ester	34		OPE	
Penetrating	33		OPT	
Perilla	34		OPR	
Pilchard	34		OPL	AFN
Pine	33		OPI	PNL
Residual	33			
Road	33		ORD	
Rosin	33		ORN	
Seal	34			
Soapstock	34		OIS	
Soybean (epoxidized)	34			EVO
Sperm	33		OSP	AFN
Spindle	33		OSD	
Tall	34		OTL	
Tall, fatty acid	34	2	TOF	
Transformer	33		OTF	
Tung	34		OTG	
Turbine	33		OTB	
Wood	34			
Olefin/Alkyl ester copolymer (molecular weight 2000+)	34		OCP	
Olefin mixtures	30			OFX/OFY
alpha-Olefins (C6-C18) mixtures	30		OAM	
Olefins (C13+)	30			
Oleic acid	34		OLA	
Oleum	0	1, 2	OLM	
Oleyl alcohol (octadecenol), see Alcohols (C13+)				ALY
Oleylamine	7		OLY	
ORIMULSION, see Asphalt emulsion				ASQ
Oxyalkylated alkyl phenol formaldehyde	33			
Palm kernel acid oil	34		PNO	
Palm kernel acid oil, methyl ester	34		PNF	
Palm kernel oil, fatty acid, see Palm kernel acid oil				PNO
Palm kernel oil, fatty acid methyl ester, see Palm kernel acid oil, methyl ester.				PNF
Palm stearin	34		PMS	
n-Paraffins (C10-C20), see n-Alkanes (C10+)			PFN	ALJ
Paraldehyde	19		PDH	
Paraldehyde-Ammonia reaction product	9		PRB	
Pentachloroethane	36		PCE	
Pentacos(oxypropane-2,3-diyl)s	20		POY	
Pentadecanol, see Alcohols (C13+)			PDC	ALY
1,3-Pentadiene	30		PDE	PDN
Pentaethylene glycol, see Polyethylene glycols				
Pentaethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.				PAG
Pentaethylenhexamine	7		PEN	
Pentaethylenhexamine, Tetraethylenepentamine mixture	7		PEP	
Pentane	31	1	PTY	IPT/PTA
Pentanoic acid	4		POC	
n-Pentanoic acid, 2-Methyl butyric acid mixture	4		POJ	POC
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.				
Pentene	30		PTX	PTE
Pentyl aldehyde	19			
n-Pentyl propionate	34		PPE	
Perchloroethylene	36	2	PER	TTE
Petrolatum	33		PTL	
Phenol	21		PHN	
1-Phenyl-1-xylyl ethane	32		PXE	
Phosphate esters, alkyl(C12-C14)amine	7		PEA	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Phosphoric acid	1	1	PAC	
Phosphorus	0	1	PPW	PPR/PPB
Phthalate based polyester polyol	0	1, 2	PBE	
Phthalic anhydride	11		PAN	
alpha-Pinene	30		PIO	PIN
beta-Pinene	30		PIP	PIN
Pine oil	33		PNL	OPI
Polyalkyl(C18-C22) acrylate in Xylene	14	1	PIX	
<i>Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			PGB	PAG
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	40		PAG	
<i>Including:</i>				
<i>Diethylene glycol butyl ether</i>				
<i>Diethylene glycol ethyl ether</i>				
<i>Diethylene glycol n-hexyl ether</i>				
<i>Diethylene glycol methyl ether</i>				
<i>Diethylene glycol n-propyl ether</i>				
<i>Dipropylene glycol butyl ether</i>				
<i>Dipropylene glycol methyl ether</i>				
<i>Polyalkylene glycol butyl ether</i>				
<i>Polyethylene glycol monoalkyl ether</i>				
<i>Polypropylene glycol methyl ether</i>				
<i>Tetraethylene glycol methyl ether</i>				
<i>Triethylene glycol butyl ether</i>				
<i>Triethylene glycol ethyl ether</i>				
<i>Triethylene glycol methyl ether</i>				
<i>Tripropylene glycol methyl ether</i>				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	34		PAF	
<i>Including:</i>				
<i>Diethylene glycol butyl ether acetate</i>				
<i>Diethylene glycol ethyl ether acetate</i>				
<i>Diethylene glycol methyl ether acetate</i>				
Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures	40		PPX	
Polyalkylene oxide polyol	20		PAO	
<i>Polyalkyl methacrylate (C1-C20)</i>				
Polyalkyl(C10-C20)methacrylate	14	1	PMT	
Polyalkyl(C10-C18)methacrylate/Ethylene propylene copolymer mixture	14	1	PEM	
Polyaluminum chloride solution	1	1		
Polybutadiene, hydroxyl terminated	20			
Polybutene	30		PLB	
Polybutenyl succinimide	10		PBS	
Poly(2+)cyclic aromatics	32		PCA	
Polydimethylsiloxane	34			
Polyether (molecular weight 2000+)	41		PYR	
Polyethylene glycol	40			
Polyethylene glycol dimethyl ether	40			
<i>Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			PEE	PAG
Polyethylene polyamines	7	2	PEB	
Polyferric sulfate solution	34		PSS	
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide).	20	2	PGT	
Polyglycerol	20			GCR
Polyisobutenamine in aliphatic (C10-C14) solvent	7		PIB	
Polyisobutenyl anhydride adduct	11			
Poly(4+)isobutylene	30			
Polymethylene polyphenyl isocyanate	12		PPI	
Polymethylsiloxane	34			
Polyolefin (molecular weight 300+)	30			
Polyolefin amide alkeneamine (C17+)	33		POH	
Polyolefin amide alkeneamine (C28+)	33		POD	
Polyolefin amide alkeneamine borate (C28-C250)	33		PAB	
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	7			
Polyolefin amide alkeneamine polyol	20		PAP	
Poly(C17+)olefin amine	7		POG	
Polyolefinamine (C28-C250)	33		POM	
Polyolefinamine in alkyl(C2-C4)benzenes	32		POF	
Polyolefin aminoester salt	34		PAE	
Polyolefin anhydride	11		PAR	
Polyolefin ester (C28-C250)	34		POS	
Polyolefin phenolic amine (C28-C250)	7		PPH	
Polyolefin phosphorosulfide, barium derivative (C28-C250)	34		PPS	
Poly(20)oxyethylene sorbitan monooleate	34		PSM	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Poly(5+)propylene	30	PLQ	PLP
Polypropylene glycol	40	.....	PGC	
<i>Polypropylene glycol methyl ether, see Propylene glycol monoalkyl ether ..</i>	.....	.....	PGM	PGE
Polysiloxane	34	.....		DMP
Poly(tetramethylene ether) glycols (mw 950-1050) (<i>alpha-hydro-omega-Hydroxytetradeca(oxytetramethylene)</i>).	40	.....	HTO	
Polytetramethylene ether glycol	40	.....	
Potassium chloride solution	43	.....	PCS	(DRB)
Potassium formate solution	34	.....	PFR	
Potassium hydroxide solution (<i>IMO cargo name</i>), <i>see Caustic potash solution.</i>	5	2		CPS
Potassium oleate	34	.....	POE	
Potassium salt of polyolefin acid	34	.....	
Potassium thiosulfate solution	43	.....	PTF	
Propane	31	1	PRP	
Propanolamine	8	.....	PAX	MPA/PLA
Propionaldehyde	19	.....	PAD	
Propionic acid	4	.....	PNA	
Propionic anhydride	11	.....	PAH	
Propionitrile	37	.....	PCN	
<i>n-Propoxypropanol, see Propylene glycol monoalkyl ether .....</i>	.....	.....	PXP	PGE
Propyl acetate	34	.....		IAC/PAT
Propyl alcohol	20	2		IPA/PAL
Propylamine	7	.....		IPP/PRA
iso-Propylamine solution	7	.....		IPO/IPQ
Propylbenzene	32	2	PBY	PBZ/CUM
n-Propyl chloride	36	.....	PRC	
iso-Propylcyclohexane	31	1	IPX	
Propylene	30	.....	PPL	
Propylene-butylene copolymer	30	.....	PBP	
Propylene carbonate	34	.....	
Propylene dimer	30	.....	PDR	
Propylene glycol	20	2	PPG	
<i>Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether .....</i>	.....	.....		PGE
<i>Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether .....</i>	.....	.....		PGE
<i>Propylene glycol methyl ether, see Propylene glycol monoalkyl ether .....</i>	.....	.....		PGE
Propylene glycol methyl ether acetate	34	.....		PME
Propylene glycol monoalkyl ether	40	.....		PGN
.....	.....	.....		PGE
<i>Including:</i>				
<i>n-Propoxypropanol</i>				
<i>Propylene glycol n-butyl ether</i>				
<i>Propylene glycol ethyl ether</i>				
<i>Propylene glycol methyl ether</i>				
<i>Propylene glycol propyl ether</i>				
Propylene glycol phenyl ether	40	.....	PGP	
<i>Propylene glycol propyl ether, see Propylene glycol monoalkyl ether .....</i>	.....	.....		PGE
Propylene oxide	16	1	POX	
Propylene, Propane, MAPP gas mixture	30	2	PPM	
Propylene tetramer	30	.....	PTT	
Propylene trimer	30	.....	PTR	
Propyl ether	41	.....		IPE/PRE
<i>Pseudocumene, see Trimethylbenzene .....</i>	.....	.....		TME/TRE
Pyridine	9	.....	PRD	
<i>Pyridine bases, see Paraldehyde-Ammonia reaction product .....</i>	.....	.....		PRB
Roehm monomer 6615	14	1	RMN	
Rosin oil	33	.....	ORN	
Rosin soap (disproportionated) solution	43	.....	RSP	
ROUNDUP (See also Glyphosate solution)	7	.....	RUP	
<i>Rum, see Alcoholic beverages .....</i>	.....	.....
SAP 7001	0	1	SON	
Sewage sludge	43	.....	
Silica slurry	43	.....	
Sludge, treated	43	.....	
Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide)	34	2	SAO	SAP
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)	5	.....	SAP	SAO
Sodium acetate solution	34	.....	SAN	AKP
Sodium alkyl sulfonate solution	43	.....	SSU	
Sodium alkyl (C14-C17) sulfonates 60-65% solution (<i>IMO cargo name</i>), <i>see Alkane (C14-C17) sulfonic acid, sodium salt solution.</i>	34	.....	AKA	
Sodium aluminate solution	5	.....	SAU	
Sodium aluminosilicate slurry	34	.....	
Sodium benzoate solution	34	SBN	
Sodium borohydride, Sodium hydroxide solution	5	SBX	SBH/SBI

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Sodium carbonate solutions	5		SCE	
Sodium chlorate solution	0	1, 2	SDD	SDC
Sodium cyanide solution	5		SCS	SCN
Sodium dichromate solution	0	1, 2	SDL	SCR
<i>Sodium dimethyl naphthalene sulfonate solution, see</i> Dimethyl naphthalene sulfonic acid, sodium salt solution.				DNS
Sodium hydrogen sulfide, Sodium carbonate solution	0	1, 2	SSS	
Sodium hydrogen sulfite solution	43		SHX	
Sodium hydrosulfide solution	5	2	SHR	
Sodium hydrosulfide, Ammonium sulfide solution	5	2	SSA	
Sodium hydroxide solution (<i>IMO cargo name</i>), <i>see</i> Caustic soda solution	5	2		CSS
Sodium hypochlorite solution	5			SHP/SHQ/(SHC)
Sodium lignosulfonate solution, <i>see also</i> Lignin liquor	43			
Sodium long chain alkyl salicylate (C13+)	34		SLS	
Sodium 2-mercaptobenzothiazol solution	5		SMB	
<i>Sodium N-methyl dithio carbamate solution, see</i> Metam sodium solution				MSS
<i>Sodium naphthalene sulfonate solution, see</i> Naphthalene sulfonic acid, sodium salt solution.			SNS	NSA
<i>Sodium naphthenate solution, see</i> Naphthenic acid, sodium salt solution				NTS
Sodium nitrite solution	5		SNI	SNT
Sodium petroleum sulfonate	33		SPS	
Sodium polyacrylate solution	43	2		
<i>Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see</i> Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.			STA	FHX
Sodium silicate solution	43	2	SSN	SSC
Sodium sulfide, Hydrosulfide solution	0	1, 2		SSH/SSI/SSJ
Sodium sulfide solution	43		SDR	
Sodium sulfite solution	43		SUP	SUS
Sodium tartrates, Sodium succinates solution	43		STM	
Sodium thiocyanate solution	0	1, 2	STS	SCY
Sorbitol solutions	20			SBT
Soyabean oil (expoxidized)	34			OSC/EVO
<i>Stearic acid, see</i> Fatty acids (saturated, C14+)			SRA	FAD
Stearyl alcohol	20			
Styrene	30		STY	STX
Styrene monomer	30		STY	STX
Sulfohydrocarbon (C3-C88)	33		SFO	
Sulfohydrocarbon, long chain (C18+) alkylamine mixture	7		SFX	
Sulfolane	39		SFL	
Sulfonated polyacrylate solutions	43	2		
Sulfur	0	1	SXX	
Sulfuric acid	2	2	SFA	
Sulfuric acid, spent	2		SAC	
Sulfurized fat (C14-C20)	33		SFT	
Sulfurized polyolefinamide alkene(C28-C250) amine	33		SPO	
Tall oil	34		OTL	
Tall oil fatty acid (<i>Resin acids less than 20%</i>)	34	2	TOF	
Tall oil fatty acid, barium salt	0	1, 2	TOB	
Tall oil soap (disproportionated) solution	43		TOS	
Tallow	34	2	TLO	
Tallow fatty acid	34	2	TFD	
<i>Tallow fatty alcohol, see</i> Alcohols (C13+)			TFA	ALY
Tallow nitrile	37		TAN	
<i>TAME, see</i> tert-Amyl methyl ether				AYE
1,1,2,2-Tetrachloroethane	36		TEC	
<i>Tetrachloroethylene, see</i> Perchloroethylene			TTE	PER
<i>Tetradecanol, see</i> Alcohols (C13+)			TTN	ALY
<i>Tetradecene, see the olefins entries</i>			TTD	
Tetradecylbenzene, <i>see</i> Alkyl(C9+) benzenes	32		TDB	AKB
Tetraethylene glycol	40		TTG	
<i>Tetraethylene glycol methyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.				PAG
Tetraethylenepentamine	7	2	TTP	
Tetrahydrofuran	41		THF	
Tetrahydronaphthalene	32		THN	
<i>1,2,3,5-Tetramethylbenzene, see</i> Tetramethylbenzene			TTB	TTC
Tetramethylbenzene	32		TTC	TTB
<i>Tetrapropylbenzene, see</i> Alkyl(C9+)benzenes				AKB
<i>Tetrasodium salt of EDTA solution, see</i> Ethylenediaminetetraacetic acid, tetrasodium salt solution.				EDS
Titanium dioxide slurry	43		TDS	
Titanium tetrachloride	2		TTT	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Toluene	32		TOL	
Toluenediamine	9		TDA	
Toluene diisocyanate	12		TDI	
o-Toluidine	9		TLI	
<i>Triarylphosphate, see Triisopropylated phenyl phosphates</i>			TRA	TPL
Tributyl phosphate	34		TBP	
1,2,4-Trichlorobenzene	36		TCB	
1,1,1-Trichloroethane	36	2	TCE	
1,1,2-Trichloroethane	36		TCM	
Trichloroethylene	36	2	TCL	
1,2,3-Trichloropropane	36	2	TCN	
1,1,2-Trichloro-1,2,2-trifluoroethane	36		TTF	
Tricresyl phosphate	34			TCO/TCP
<i>Tridecane, see n-Alkanes (C10+)</i>			TRD	ALJ
Tridecanoic acid	34		TDO	
<i>Tridecanol, see Alcohols (C13+)</i>			TDN	ALY
<i>Tridecene, see Olefins (C13+)</i>			TDC	
Tridecyl acetate	34		TAE	
Tridecylbenzene, <i>see Alkyl(C9+) benzenes</i>	32	2	TRB	AKB
Triethanolamine	8	2	TEA	
Triethylamine	7		TEN	
Triethylbenzene	32	2	TEB	
Triethylene glycol	40		TEG	
<i>Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>				PAG
Triethylene glycol butyl ether mixture	40			
Triethylene glycol dibenzoate	34		TGB	
Triethylene glycol di-(2-ethylbutyrate)	34		TGD	
Triethylene glycol ether mixture	40			
<i>Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			TGE	PAG
<i>Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			TGY	PAG
Triethylenetetramine	7	2	TET	
Triethyl phosphate	34		TPS	
Triethyl phosphite	34	2	TPI	
Triisobutylene	30		TIB	
Triisooctyl trimellitate	34			
Triisopropanolamine	8		TIP	
<i>Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.</i>				DTI
Triisopropylated phenyl phosphates	34		TPL	
Trimethylacetic acid	4		TAA	
Trimethylamine solution	7		TMT	
Trimethylbenzene	32	2	TRE	TME/TMB/TMD
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-)	7		THA	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)	12		THI	
<i>Trimethyl nonanol, see Dodecanol</i>				DDN
Trimethylol propane polyethoxylate	20		TPR	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	34		TMQ	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	34		TMP	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	34			
Trimethyl phosphite	34	2	TPP	
1,3,5-Trioxane	41	2	TRO	
Triphenylborane, Caustic soda solution	5		TPB	
<i>Tripropylene, see Propylene trimer</i>				PTR
Tripropylene glycol	40		TGC	
<i>Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			TGM	PAG
Trisodium nitrioltriacetate	34			
Trisodium phosphate solution	5		TSP	
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.</i>				HET
Trixylyl phosphate (<i>IMO cargo name</i>), <i>see Trixylenyl phosphate</i>	34			TRP
Trixylenyl phosphate	34		TRP	
Turpentine	30		TPT	
Ucarsol CR Solvent 302 SG	8		UCS	
Undecanoic acid	4		UDA	
<i>Undecanol, see Undecyl alcohol</i>				UND
Undecene	30		UDC	
Undecyl alcohol	20		UND	
Undecylbenzene, <i>see Alkyl(C9+) benzenes</i>			UDB	AKB

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution.	0	1	UPX	
Urea, Ammonium nitrate solution (containing Ammonia)	6		UAS	
Urea, Ammonium nitrate solution (not containing Ammonia)	43		UAT	ANU
Urea, Ammonium phosphate solution	43		UAP	
Urea solution	43			URE
Valeraldehyde	19		VAK	IVA/VAL
Vanillin black liquor	5		VBL	
Vegetable oils, n.o.s.	34		VEO	
<i>Including:</i>				
<i>Beechnut oil</i>				
<i>Castor oil</i>				
<i>Cocoa butter</i>				
<i>Coconut oil</i>				
<i>Corn oil</i>				
<i>Cottonseed oil</i>				
<i>Groundnut oil</i>				
<i>Hazelnut oil</i>				
<i>Linseed oil</i>				
<i>Nutmeg butter</i>				
<i>Oiticica oil</i>				
<i>Olive oil</i>				
<i>Palm kernel oil</i>				
<i>Palm oil</i>				
<i>Peel oil (oranges and lemons)</i>				
<i>Perilla oil</i>				
<i>Poppy oil</i>				
<i>Raisin seed oil</i>				
<i>Rapeseed oil</i>				
<i>Rice bran oil</i>				
<i>Safflower oil</i>				
<i>Salad oil</i>				
<i>Sesame oil</i>				
<i>Soya bean oil</i>				
<i>Sunflower seed oil</i>				
<i>Tucum oil</i>				
<i>Tung oil</i>				
<i>Walnut oil</i>				
Vegetable acid oils and distillates, n.o.s.	34		VAO	
<i>Including:</i>				
<i>Corn acid oil</i>				
<i>Cottonseed acid oil</i>				
<i>Dark mixed acid oil</i>				
<i>Groundnut acid oil</i>				
<i>Mixed acid oil</i>				
<i>Mixed general acid oil</i>				
<i>Mixed hard acid oil</i>				
<i>Mixed soft acid oil</i>				
<i>Rapeseed acid oil</i>				
<i>Safflower acid oil</i>				
<i>Soya acid oil</i>				
<i>Sunflower seed acid oil</i>				
Vegetable protein solution	43			
Vinyl acetate	13	1	VAM	
Vinyl chloride	35		VCM	
Vinyl ethyl ether	13	1	VEE	
Vinylidene chloride	35		VCI	
Vinyl neodecanate	13	1	VND	
Vinyltoluene	13	1	VNT	
Water	43			
Waxes:				
Candelilla	34		WDC	
Carnauba	34		WCA	
Paraffin	31	1	WPF	
Petroleum	33			
<i>Wine, see Alcoholic beverages</i>				
White spirit (low (15-20%) aromatic)	33		WSL	WSP
Xylene	32		XLX	XML/XLO/XLP
Xylenes, Ethylbenzene mixture	32		XEB	
Xylenols	21		XYL	
Zinc alkaryl dithiophosphate (C7-C16)	34		ZAD	
Zinc alkenyl carboxamide	10		ZAA	
Zinc alkyl dithiophosphate (C3-C14)	34		ZAP	

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Zinc bromide, Calcium bromide solution, see Drilling brine (containing Zinc salts).		DZB

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001. Telephone (202) 372-1425.

2. See Appendix I—Exceptions to the Chart.

[USCG 2000-7079, 65 FR 67162, Nov. 8, 2000, as amended by USCG-2006-25697, 71 FR 55746, Sept. 25, 2006; USCG-2008-0906, 73 FR 56510, Sept. 29, 2008; USCG-2009-0702, 74 FR 49236, Sept. 25, 2009; USCG-2010-0759, 75 FR 60003, Sept. 29, 2010]

TABLE II TO PART 150—GROUPING OF CARGOES

0. UNASSIGNED CARGOES

Acetone cyanohydrin^{1,2}
 Alkylbenzenesulfonic acid^{1,2}
 Aluminium chloride, Hydrochloric acid solution¹
 Ammonium hydrogen phosphate solution¹
 Ammonium nitrate solution¹
 Ammonium thiocyanate, Ammonium thiosulfate solution¹
 Benzenesulfonyl chloride^{1,2}
 gamma-Butyrolactone^{1,2}
 Chlorine¹
 Chlorosulfonic acid¹
 Decyloxytetrahydro-thiophene dioxide²
 tert-Dodecanethiol²
 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution^{1,2}
 Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution^{1,2}
 Diphenylol propane-Epichlorohydrin resins¹
 Dodecylbenzenesulfonic acid^{1,2}
 Dodecyl hydroxypropyl sulfide²
 Ethylene oxide¹
 Hydrogen peroxide solutions¹
 Lactic acid²
 Long chain alkaryl sulfonic acid (C16-C60)²
 Magnesium chloride solution^{1,2}
 Molasses residue¹
 Motor fuel antiknock compounds containing Lead alkyls¹
 Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution¹
 NIAX POLYOL APP 240C^{1,2}
 Nitrating acid¹
 Nitric acid (greater than 70%)¹
 o-Nitrophenol^{1,2}
 Noxious Liquid Substance, n.o.s. (NLS's)¹
 Oleum^{1,2}
 Phosphorus¹
 Phthalate based polyester polyol²
 SAP 7001¹
 Sodium chlorate solution^{1,2}
 Sodium dichromate solution^{1,2}
 Sodium hydrogen sulfide, Sodium carbonate solution^{1,2}
 Sodium sulfide, Hydrosulfide solution^{1,2}
 Sodium thiocyanate solution^{1,2}
 Sulfur¹

Tall oil fatty acid, barium salt²
 Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution

1. NON-OXIDIZING MINERAL ACIDS

Di-(2-ethylhexyl)phosphoric acid
 Ferric chloride solution
 Fluorosilicic acid
 Hydrochloric acid
 Phosphoric acid
 Polyaluminum chloride solution

2. SULFURIC ACIDS

Sulfuric acid²
 Sulfuric acid, spent
 Titanium tetrachloride

3. NITRIC ACID

Ferric nitrate, Nitric acid solution
 Nitric acid (70% or less)

4. ORGANIC ACIDS

Acetic acid²
 Acrylic acid²
 Butyric acid
 Cashew nut shell oil (untreated)
 Citric acid
 Chloroacetic acid solution
 Chloropropionic acid
 Decanoic acid
 2,2-Dichloropropionic acid
 2,2-Dimethyloctanoic acid
 2-Ethylhexanoic acid
 Formic acid²
 Glycolic acid
 Glyoxylic acid
 n-Heptanoic acid
 Hexanoic acid
 2-Hydroxy-4-(methylthio)butanoic acid
 Methacrylic acid
 Naphthenic acid
 Neodecanoic acid
 Nonanoic acid
 Nonanoic, Tridecanoic acid mixture
 Octanoic acid
 n-Pentanoic acid, 2-Methyl butyric acid mixture
 Pentanoic acid
 Propionic acid
 Trimethylacetic acid
 Undecanoic acid