
RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

RULES

Part S

**Ships Carrying Dangerous Chemicals
in Bulk**

2009 AMENDMENT NO.1

Rule No.19 15th April 2009

Resolved by Technical Committee on 4th February 2009

Approved by Board of Directors on 24th February 2009

Rule No.19 15th April 2009

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Rules for the survey and construction of steel ships” has been partly amended as follows:

Part S SHIPS CARRYING DANGEROUS CHEMICALS IN BULK

Chapter 17 SUMMARY OF MINIMUM REQUIREMENTS
(with reference to *IBC Code* Chapter 17)

17.1 General

17.1.1 Application

Part of Table S17.1 has been amended as follows.

Table S17.1 Summary of Minimum Requirements

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Acetic acid	X Z	S/P	3	2G	Cont	No	T1	IIA	No	R	F	A	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6, 16.2.3-9. (16.2.9)
Acetic anhydride	Z	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6
Acetochlor	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Acetone cyanohydrin	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	A	Yes	15.12, 15.13, 15.17, 15.18, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Acetonitrile	Z	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.12, 15.19.6
Acetonitrile (Low purity grade)	Y	S/P	3	2G	Cont	No	T1	IIA	No	R	F-T	AC	No	15.12.3, 15.12.4, 15.19.6
Acid oil mixture from soyabean, corn (maize) and sunflower oil refining	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Acrylamide solution (50% or less)	Y	S/P	2	2G	Open	No			NF	C	No	No	No	15.12.3, 15.13, 15.19.6, 16.2.3-9. (16.2.9), 16.2.7-1. (16.6.1)
Acrylic acid	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	A	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.12.3, 15.12.4, 15.13, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9), 16.2.7-1. (16.6.1)
Acrylonitrile	Y	S/P	2	2G	Cont	No	T1	IIB	No	C	F-T	A	Yes	15.12, 15.13, 15.17, 15.19 & 15.22.12 (15.19)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Adiponitrile	Z	S/P	3	2G	Cont	No		IIB	Yes	R	T	A	No	16.2.3-9. (16.2.9)
Alachlor technical (90% or more)	X	S/P	2	2G	Open	No			Yes	O	No	AC	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohol (C9-C11) poly (2.5-9) ethoxylate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohol (C6-C17) (secondary) poly(3-6)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alcohol (C12-C16) poly(1-6)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohol (C12-C16) poly(20+)ethoxylates	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohol (C12-C16) poly(7-19)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alcohols (C13+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
<u>Alcohols (C12+), primary, linear</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Open</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>O</u>	<u>No</u>	<u>AB</u> <u>C</u>	<u>No</u>	<u>15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)</u>
Alcohols (C8-C11), primary, linear and essentially linear	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alcohols (C12-C13), primary, linear and essentially linear	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alcohols (C14-C18), primary, linear and essentially linear	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6)
Alkanes (C6-C9)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Iso-and cyclo-alkanes (C10-C11)	Y	P	3	2G	Cont	No	-	-	No	R	F	A	No	15.19.6
Iso-and cyclo-alkanes (C12+)	Y	P	3	2G	Cont	No	-	-	No	R	F	A	No	
n-Alkanes (C10+)	Y	P	3	2G	Cont	No	-	-	No	R	F	A	No	15.19.6
Alkaryl polyethers (C9-C20)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
<u>Alkenoic acid, polyhydroxy ester borated</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>R</u>	<u>T</u>	<u>AB</u> <u>C</u>	<u>No</u>	<u>15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6)</u>

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Alkenyl (C11+) amide	X	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkenyl (C16-C20) succinic anhydride	Z	S/P	3	2G	Cont	No			Yes	C	T	No	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Alkyl acrylate-vinylpyridine copolymer in toluene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers)	X	S/P	1	2G	Cont	No	T1	IIA	Yes	C	T	AB C	No	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Alkylated (C4-C9) hindered phenols	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	BD	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	Z	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Alkyl benzene distillation bottoms	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6)
Alkylbenzene mixtures (containing at least 50% of toluene)	Y	S/P	3	2G	Cont	No	T1	IIA	No	C	F-T	AB C	No	15.12, 15.17, 15.19.6
Alkyl (C3-C4) benzenes	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Alkyl (C5-C8) benzenes	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Alkyl(C9+)benzenes	Y	P	3	2G	Open	No	-	-	Yes	O	No	AB	No	
Alkyl (C11-C17) benzene sulphonic acid	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Alkylbenzene sulphonic acid, sodium salt solution	Y	S/P	2	2G	Open	No	-	-	NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkyl (C12+) dimethylamine	X	S/P	1	2G	Cont	No	-	-	Yes	C	T	BC D	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Alkyl dithiocarbamate (C19-C35)	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkyldithiothiadiazole (C6-C24)	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Alkyl ester copolymer (C4-C20)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkyl (C8-C10)/(C12-C14):(40% or	Y	P	3	2G	Open	No			Yes	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
less/60% or more) polyglucoside solution (55% or less)														16.2.3-9. (16.2.9)
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)	<i>Y</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>No</i>	<i>No</i>	16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkyl (C7-C9) nitrates	<i>Y</i>	<i>S/P</i>	<i>2</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6, 15.20, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Alkyl (C7-C11) phenol poly (4-12) ethoxylate	<i>Y</i>	<i>P</i>	<i>2</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6
Alkyl (C8-C40) phenol sulphide	<i>Z</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	
Alkyl (C8-C9) phenylamine in aromatic solvents	<i>Y</i>	<i>P</i>	<i>2</i>	<i>2G</i>	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>R</i>	<i>F</i>	<i>A</i>	<i>No</i>	15.19.6
Alkyl (C9-C15) phenyl propoxylate	<i>Z</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	
Alkyl (C8-C10) polyglucoside solution (65% or less)	<i>Y</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>No</i>	<i>No</i>	16.2.3-6. (16.2.6)
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	<i>Y</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>No</i>	<i>No</i>	16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Alkyl (C12-C14) polyglucoside solution (55% or less)	<i>Y</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>No</i>	<i>No</i>	15.19.6, 16.2.3-9. (16.2.9)
Alkyl(C10-C20, saturated and unsaturated) phosphite	<i>Y</i>	<i>P</i>	<i>2</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	16.2.3-9. (16.2.9)
Alkyl sulphonic acid ester of phenol	<i>Y</i>	<i>P</i>	<i>3</i>	<i>2G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6)
<u>Alkyl (C18+) toluenes</u>	<u><i>Y</i></u>	<u><i>S/P</i></u>	<u><i>2</i></u>	<u><i>2G</i></u>	<u><i>Open</i></u>	<u><i>No</i></u>	<u><i>-</i></u>	<u><i>-</i></u>	<u><i>Yes</i></u>	<u><i>O</i></u>	<u><i>No</i></u>	<u><i>AB</i></u> <u><i>C</i></u>	<u><i>No</i></u>	<u>15.19.6, 16.2.3-9. (16.2.9)</u>
<u>Alkyltoluenesulphonic acid, calcium salts</u>	<u><i>Y</i></u>	<u><i>S/P</i></u>	<u><i>2</i></u>	<u><i>2G</i></u>	<u><i>Cont</i></u>	<u><i>No</i></u>	<u><i>-</i></u>	<u><i>-</i></u>	<u><i>Yes</i></u>	<u><i>C</i></u>	<u><i>T</i></u>	<u><i>AB</i></u> <u><i>C</i></u>	<u><i>Yes</i></u>	<u>15.12, 15.17,</u> <u>15.19 & 15.22.12 (15.19)</u> <u>16.2.3-6. (16.2.6)</u>
Allyl alcohol	<i>Y</i>	<i>S/P</i>	<i>2</i>	<i>2G</i>	<i>Cont</i>	<i>No</i>	<i>T2</i>	<i>IIB</i>	<i>No</i>	<i>C</i>	<i>F-T</i>	<i>A</i>	<i>Yes</i>	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Allyl chloride	<i>Y</i>	<i>S/P</i>	<i>2</i>	<i>2G</i>	<i>Cont</i>	<i>No</i>	<i>T2</i>	<i>IIA</i>	<i>No</i>	<i>C</i>	<i>F-T</i>	<i>A</i>	<i>Yes</i>	15.12, 15.17,

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														15.19 & 15.22.12 (15.19)
Aluminium sulphate solution	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
2-(2-Aminoethoxy) ethanol	Z	S/P	3	2G	Open	No			Yes	O	No	AD	No	15.19.6
Aminoethyldiethanolamine/ Aminoethylethanolamine solution	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Aminoethyl ethanolamine	Z	S/P	3	2G	Open	No	T2	IIA	Yes	O	No	A	No	
N-Aminoethylpiperazine	Z	S/P	3	2G	Cont	No			Yes	R	T	A	No	15.19.6, 16.2.3-9. (16.2.9)
2-Amino-2-methyl-1-propanol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Ammonia aqueous (28% or less)	Y	S/P	2	2G	Cont	No			NF	R	T	AB C	Yes	15.19.6
Ammonium hydrogen phosphate solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Ammonium lignosulphonate solutions	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Ammonium nitrate solution (93% or less)	Z	S/P	2	1G	Open	No			NF	O	No	No	No	15.2 & 15.22.2 (15.2), 15.11.4, 15.11.6, 15.18, 15.19.6, 16.2.3-9. (16.2.9)
Ammonium polyphosphate solution	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	
Ammonium sulphate solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Ammonium sulphide solution (45% or less)	Y	S/P	2	2G	Cont	No			No	C	F-T	A	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Ammonium thiosulphate solution (60% or less)	Z	P	3	2G	Open	No			NF	O	No	No	No	16.2.3-9. (16.2.9)
Amyl acetate (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
n-Amyl alcohol	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Amyl alcohol, primary	Z	P	3	2G	Cont	No			No	R	F	AB	No	
sec-Amyl alcohol	Z	P	3	2G	Cont	No			No	R	F	AB	No	
tert-Amyl alcohol	Z	P	3	2G	Cont	No			No	R	F	A	No	
tert-Amyl methyl ether	X	P	2	2G	Cont	No	T3		No	R	F	A	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Aniline	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	A	No	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Aryl polyolefins (C11-C50)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)	X	P	2	2G	Cont	No			No	R	F	B	No	15.19.6
Barium long chain (C11-C50) alkaryl sulphonate	Y	S/P	2	2G	Open	No			Yes	O	No	AD	No	15.12.3, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Benzene and mixtures having 10% benzene or more (i)	Y	S/P	3	2G	Cont	No	T1	IIA	No	C	F-T	AB	No	15.12.1, 15.17, 15.19.6, 16.2.3-9. (16.2.9)
Benzen sulphonyl chloride	Z	S/P	3	2G	Cont	No			Yes	R	T	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Benzenetricarboxylic acid, trioctyl ester	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Benzyl acetate	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Benzyl alcohol	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Benzyl chloride	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	AB	Yes	15.12, 15.13, 15.17, 15.19 & 15.22.12(15.19)
Brake fluid base mix: Poly (2-8) alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	
Bromochloromethane	Z	S/P	3	2G	Cont	No			NF	R	T	No	No	
Butene oligomer	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Butyl acetate (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Butyl acrylate (all isomers)	Y	S/P	2	2G	Cont	No	T2	IIB	No	R	F-T	A	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
tert-Butyl alcohol	Z	P	3	2G	Cont	No			No	R	F	A	No	
Butylamine (all isomers)	Y	S/P	2	2G	Cont	No			No	R	F-T	A	Yes	15.12, 15.17, 15.19.6
Butylbenzene (all isomers)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Butyl benzyl phthalate	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Butyl butyrate (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	Y	S/P	2	2G	Cont	No			Yes	R	No	AD	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Butylene glycol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
1,2-Butylene oxide	Y	S/P	3	2G	Cont	Inert	T2	IIB	No	R	F	AC	No	15.8.1~15.8.7 & 15.22.8-1.~15.22.8-5. (15.8.1~15.8.7), 15.8.12, 15.8.13, 15.8.17 (15.8.16), 15.8.19 (15.8.17), 15.8.20 & 15.22.8-8. (15.8.18), 15.8.21 & 15.22.8-9 (15.8.19), 15.8.23 (15.8.21), 15.8.31~15.8.33 & 15.22.8-12.~15.22.8-14. (15.8.25), 15.8.35 (15.8.27) 15.8.37 & 15.22.8-16 (15.8.29), 15.19.6
n-Butyl ether	Y	S/P	3	2G	Cont	Inert	T4	IIB	No	R	F-T	A	No	15.4.6, 15.12, 15.19.6
Butyl methacrylate	Z	S/P	3	2G	Cont	No		IIA	No	R	F-T	AD	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
n-Butyl propionate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Butyraldehyde (all isomers)	Y	S/P	3	2G	Cont	No	T3	IIA	No	R	F-T	A	No	15.19.6
Butyric acid	Y	S/P	3	2G	Cont	No			Yes	R	No	A	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6
gamma-Butyrolactone	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
<u>Calcium alkyl (C10-C28) salicylate</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>R</u>	<u>T</u>	<u>AB</u> <u>C</u>	<u>Yes</u>	<u>15.12.3, 15.12.4, 15.19.6, 16.2.3-9. (16.2.9)</u>
Calcium carbonate slurry	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Calcium hydroxide slurry	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Calcium hypochlorite solution (15% or less)	Y	S/P	2	2G	Cont	No			NF	R	No	No	No	15.19.6
Calcium hypochlorite solution (more than 15%)	X	S/P	1	2G	Cont	No			NF	R	No	No	No	15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Calcium lignosulphonate solutions	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Calcium long-chain alkaryl sulphonate (C11-C50)	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Calcium long-chain alkyl(C5-C10) phenate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Calcium long-chain alkyl(C11-C40) phenate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Calcium long-chain alkyl phenate sulphide (C8-C40)	Y	P S/P	2	2G	Open	No			Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Calcium long-chain alkyl salicylate (C13+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
<u>Calcium long-chain alkyl (C18-C28) salicylate</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>R</u>	<u>T</u>	<u>AB</u> <u>C</u>	<u>Yes</u>	<u>15.12, 15.17,</u> <u>15.19 & 15.22.12 (15.19)</u> <u>16.2.3-6. (16.2.6),</u> <u>16.2.3-9. (16.2.9)</u>
Calcium nitrate/Magnesium nitrate/ Potassium chloride solution	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
epsilon-Caprolactam (molten or aqueous solutions)	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Carbolic oil	Y	S/P	2	2G	Cont	No			Yes	C	F-T	A	No	15.12, 15.19.6, 16.2.3-9. (16.2.9)
Carbon disulphide	Y	S/P	2	1G	Cont	Pad+inert	T6	IIC	No	C	F-T	C	Yes	15.3 & 15.22.3 (15.3), 15.12, 15.19 & 15.22.12 (15.19)
Carbon tetrachloride	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes	15.12, 15.17, 15.19.6
Cashew nut shell oil (untreated)	Y	S	2	2G	Cont	No			Yes	R	T	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Castor oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.9
Cetyl/Eicosyl methacrylate mixture	Y	S/P	2	2G	Open	No			Yes	O	No	AD	No	15.13, 15.19.6, 16.2.3-9. (16.2.9), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Chlorinated paraffins (C10-C13)	X	P	1	2G	Open	No			Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Chlorinated paraffins (C14-C17)(with 50% chlorine or more, and less than 1% C13 or shorter chains)	X	P	1	2G	Open	No	-	-	Yes	O	No	A	No	15.19
Chloroacetic acid (80% or less)	Y	S/P	2	2G	Cont	No			NF	C	No	No	No	15.11.2, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.12.3, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Chlorobenzene	Y	S/P	2	2G	Cont	No	T1	IIA	No	R	F-T	AB	No	15.19.6
Chloroform	Y	S/P	3	2G	Cont	No			NF	R	T	No	Yes	15.12, 15.19.6
Chlorohydrins (crude)	Y	S/P	2	2G	Cont	No		IIA	No	C	F-T	A	No	15.12, 15.19 & 15.22.12 (15.19)
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	Y	P	2	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
o-Chloronitrobenzene	Y	S/P	2	2G	Cont	No			Yes	C	T	AB D	No	15.12, 15.17, 15.18, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one	Y	P	2	2G	Open	No			Yes	O	No	AB D	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
2-or 3-Chloropropionic acid	Z	S/P	3	2G	Open	No			Yes	O	No	A	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 16.2.3-9. (16.2.9)
Chlorosulphonic acid	Y	S/P	1	2G	Cont	No			NF	C	T	No	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.5, 15.11.6, 15.11.7, 15.11.8, 15.12, 15.16.2 &

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														15.22.11 (15.16.2), 15.19 & 15.22.12 (15.19)
m-Chlorotoluene	Y	S/P	2	2G	Cont	No			No	R	F-T	AB	No	15.19.6
o-Chlorotoluene	Y	S/P	2	2G	Cont	No			No	R	F-T	AB	No	15.19.6
p-Chlorotoluene	Y	S/P	2	2G	Cont	No			No	R	F-T	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Chlorotoluenes (mixed isomers)	Y	S/P	2	2G	Cont	No			No	R	F-T	AB	No	15.19.6
Choline chloride solutions	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Citric acid (70% or less)	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Coal tar	X	S/P	2	2G	Cont	No	T2	IIA	Yes	R	No	BD	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Coal tar naphtha solvent	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F-T	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Coal tar pitch (molten)	X	S/P	2	1G	Cont	No	T2	IIA	Yes	R	No	BD	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Cocoa butter	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Coconut oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Coconut oil fatty acid	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Coconut oil fatty acid methyl ester	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Copper salt of long chain (C17+) alkanolic acid	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Corn Oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Cotton seed oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Creosote (coal tar)	X	S/P	2	2G	Cont	No	T2	IIA	Yes	R	T	AD	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Cresols (all isomers)	Y	S/P	2	2G	Open	No	T1	IIA	Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Cresylic acid, dephenolized	Y	S/P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Cresylic acid, sodium salt solution	Y	S/P	2	2G	Open	No			Yes	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Crotonaldehyde	Y	S/P	2	2G	Cont	No	T3	IIB	No	R	F-T	A	Yes	15.12, 15.17, 15.19.6
1,5,9-Cyclododecatiene	X	S/P	1	2G	Cont	No			Yes	R	T	A	No	15.13, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Cycloheptane	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Cyclohexane	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Cyclohexanol	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Cyclohexanone	Z	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.19.6
Cyclohexanone, Cyclohexanol mixture	Y	S/P	3	2G	Cont	No			Yes	R	F-T	A	No	15.19.6
Cyclohexyl acetate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Cyclohexylamine	Y	S/P	3	2G	Cont	No	T3	IIA	No	R	F-T	AC	No	15.19.6
1,3-Cyclopentadiene dimer (molten)	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Cyclopentane	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Cyclopentene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
p-Cymene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Decahydronaphthalene	Y	P	2	2G	Cont	No			No	R	F	AB	No	15.19.6
Decanoic acid	X	P	2	2G	Open	No			Yes	O	No	A	No	16.2.3-9. (16.2.9)
Decene	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Decyl acrylate	X	S/P	1	2G	Open	No	T3	IIA	Yes	O	No	AC D	No	15.13, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Decyl alcohol (all isomers)	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9) (e)
<u>Decyl/Dodecyl/Tetradecyl alcohol mixture</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>R</u>	<u>T</u>	<u>AB C</u>	<u>No</u>	<u>15.12.3, 15.12.4, 15.19.6, 16.2.3-9. (16.2.9)</u>
Decyloxytetrahydrothiophene dioxide	X	S/P	2	2G	Cont	No			Yes	R	T	A	No	15.19.6, 16.2.3-9. (16.2.9)
Diacetone alcohol	Z	P	3	2G	Cont	No			No	R	F	A	No	
Dialkyl (C8-C9) diphenylamines	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Dialkyl (C7-C13) phthalates	X	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
<u>Dialkyl (C9-C10) phthalates</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Open</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>O</u>	<u>No</u>	<u>AB</u> <u>C</u>	<u>No</u>	<u>15.19.6, 16.2.3-6. (16.2.6)</u>
Dibromomethane	Y	S/P	2	2G	Cont	No			NF	R	T	No	No	15.12.3, 15.19 & 15.22.12 (15.19)
Dibutylamine	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	AC D	No	15.19.6
Dibutyl hydrogen phosphonate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
2,6-Di-tert-butylphenol	X	P	1	2G	Open	No	-	-	Yes	O	No	AB CD	No	15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Dibutyl phthalate	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Dichlorobenzene (all isomers)	X	S/P	2	2G	Cont	No	T1	IIA	Yes	R	T	AB D	No	15.19.6
3,4-Dichloro-1-butene	Y	S/P	2	2G	Cont	No			No	C	F-T	AB C	Yes	15.12.3, 15.17, 15.19.6
1,1-Dichloroethane	Z	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	A	Yes	15.19.6
Dichloroethyl ether	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.19.6
1,6-Dichlorohexane	Y	S/P	2	2G	Cont	No			No	R	T	AB	No	15.19.6
2,2-Dichloroisopropyl ether	Y	S/P	2	2G	Cont	No			Yes	R	T	AC D	No	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Dichloromethane	Y	S/P	3	2G	Cont	No	T1	IIA	Yes	R	T	No	No	15.19.6
2,4-Dichlorophenol	Y	S/P	2	2G	Cont	Dry			Yes	R	T	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
1,1-Dichloropropane	Y	S/P	2	2G	Cont	No			No	R	F-T	AB	No	15.12, 15.19.6
1,2-Dichloropropane	Y	S/P	2	2G	Cont	No	T1	IIA	No	R	F-T	AB	No	15.12, 15.19.6
1,3-Dichloropropene	X	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	AB	Yes	15.12, 15.17, 15.18,

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														15.19 & 15.22.12 (15.19)
Dichloropropene/Dichloropropane mixtures	<i>X</i>	<i>S/P</i>	2	2G	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>C</i>	<i>F-T</i>	<i>AB D</i>	<i>Yes</i>	15.12, 15.17, 15.18, 15.19 & 15.22.12 (15.19)
2,2-Dichloropropionic acid	<i>Y</i>	<i>S/P</i>	3	2G	<i>Cont</i>	<i>Dry</i>			<i>Yes</i>	<i>R</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.11.2, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6, 16.2.3-9. (16.2.9)
Diethanolamine	<i>Y</i>	<i>S/P</i>	3	2G	<i>Open</i>	<i>No</i>	<i>T1</i>	<i>IIA</i>	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diethylamine	<i>Y</i>	<i>S/P</i>	3	2G	<i>Cont</i>	<i>No</i>	<i>T2</i>	<i>IIA</i>	<i>No</i>	<i>R</i>	<i>F-T</i>	<i>A</i>	<i>Yes</i>	15.12, 15.19.6
Diethylaminoethanol	<i>Y</i>	<i>S/P</i>	2	2G	<i>Cont</i>	<i>No</i>	<i>T2</i>	<i>IIA</i>	<i>No</i>	<i>R</i>	<i>F-T</i>	<i>AC</i>	<i>No</i>	15.19.6
2,6-Diethylaniline	<i>Y</i>	<i>S/P</i>	3	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>BC D</i>	<i>No</i>	15.19.6, 16.2.3-9. (16.2.9)
Diethylbenzene	<i>Y</i>	<i>P</i>	2	2G	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>R</i>	<i>F</i>	<i>A</i>	<i>No</i>	15.19.6
Diethylene glycol dibutyl ether	<i>Z</i>	<i>S/P</i>	3	2G	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Diethylene glycol diethyl ether	<i>Z</i>	<i>P</i>	3	2G	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Diethylene glycol phthalate	<i>Y</i>	<i>P</i>	3	2G	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6)
Diethylenetriamine	<i>Y</i>	<i>S/P</i>	3	2G	<i>Open</i>	<i>No</i>	<i>T2</i>	<i>IIA</i>	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6
Diethylenetriaminepentaacetic acid, pentasodium salt solution	<i>Z</i>	<i>P</i>	3	2G	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Diethyl ether	<i>Z</i>	<i>S/P</i>	2	1G	<i>Cont</i>	<i>Inert</i>	<i>T4</i>	<i>IIB</i>	<i>No</i>	<i>C</i>	<i>F-T</i>	<i>A</i>	<i>Yes</i>	15.4, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19)
Di-(2-ethylhexyl) adipate	<i>Y</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6
Di-(2-ethylhexyl) phosphoric acid	<i>Y</i>	<i>S/P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AD</i>	<i>No</i>	15.19.6
Diethyl phthalate	<i>Y</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6
Diethyl sulphate	<i>Y</i>	<i>S/P</i>	2	2G	<i>Cont</i>	<i>No</i>			<i>Yes</i>	<i>C</i>	<i>T</i>	<i>A</i>	<i>No</i>	15.19.6
Diglycidyl ether of bisphenol A	<i>X</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diglycidyl ether of bisphenol F	<i>Y</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6)
Diheptyl phthalate	<i>Y</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6
Di-n-hexyl adipate	<i>X</i>	<i>P</i>	1	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19 & 15.22.12 (15.19)
Dihexyl phthalate	<i>Y</i>	<i>P</i>	2	2G	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Diisobutylamine	Y	S/P	2	2G	Cont	No			No	R	F-T	AC D	No	15.12.3, 15.19.6
Diisobutylene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Diisobutyl ketone	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Diisobutyl phthalate	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Diisononyl adipate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Diisooctyl phthalate	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Diisopropanolamine	Z	S/P	3	2G	Open	No	T2	IIA	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Diisopropylamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	A	Yes	15.12, 15.19 & 15.22.12 (15.19)
Diisopropylbenzene (all isomers)	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Diisopropylnaphthalene	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
N,N-Dimethylacetamide	Z	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC D	No	15.12, 15.17
N,N-Dimethylacetamide solution (40% or less)	Z	S/P	3	2G	Cont	No			Yes	R	T	B	No	15.12.1, 15.17
Dimethyl adipate	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Dimethylamine solution (45% or less)	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	AC D	No	15.12, 15.19.6
Dimethylamine solution (greater than 45% but not greater than 55%)	Y	S/P	2	2G	Cont	No			No	C	F-T	AC D	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Dimethylamine solution (greater than 55% but not greater than 65%)	Y	S/P	2	2G	Cont	No			No	C	F-T	AC D	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.17, 15.19 & 15.22.12 (15.19)
N,N-Dimethylcyclohexylamine	Y	S/P	2	2G	Cont	No			No	R	F-T	AC	No	15.12, 15.17, 15.19.6
Dimethyl disulphide	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F-T	B	No	15.12.3, 15.12.4, 15.19.6
N,N-Dimethyldodecylamine	X	S/P	1	2G	Open	No			Yes	O	No	B	No	15.19 & 15.22.12 (15.19)
Dimethylethanolamine	Y	S/P	3	2G	Cont	No	T3	IIA	No	R	F-T	AD	No	15.19.6
Dimethylformamide	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	AD	No	15.19.6
Dimethyl glutarate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Dimethyl hydrogen phosphite	Y	S/P	3	2G	Cont	No			Yes	R	T	AD	No	15.12.1, 15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Dimethyl octanoic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Dimethyl phthalate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Dimethylpolysiloxane	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
2,2-Dimethylpropane-1,3-diol (molten or solution)	Z	P	3	2G	Open	No	-	-	Yes	O	No	AB	No	16.2.3-9. (16.2.9)
Dimethyl succinate	Y	P	3	2G	Open	No			Yes	O	No	A	No	16.2.3-9. (16.2.9)
Dinitrotoluene (molten)	X	S/P	2	2G	Cont	No			Yes	C	T	A	No	15.12, 15.17, 15.19 & 15.22.12 (15.19), 15.21, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9), 16.2.7-4. (16.6.4)
Dinonyl phthalate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Diocetyl phthalate	X	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6
1,4-Dioxane	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	F-T	A	No	15.12, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Dipentene	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Diphenyl	X	P	2	2G	Open	No			Yes	O	No	B	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diphenylamine (molten)	Y	P	2	2G	Open	No	-	-	Yes	O	No	BD	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	Y	S/P	1	2G	Open	No			Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Diphenylamines, alkylated	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diphenyl/Diphenyl ether mixtures	X	P	2	2G	Open	No			Yes	O	No	B	No	15.19.6, 16.2.3-9. (16.2.9)
Diphenyl ether	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Diphenyl ether/Diphenyl phenyl ether mixture	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Diphenylmethane diisocyanate	Y	S/P	2	2G	Cont	Dry	-	-	Yes(a)	C	T(a)	AB C(b)	No	15.12, 15.16.2 & 15.22.11 (15.16.2), 15.17, 15.19.6,

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
												)D		16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Diphenylol propane-epichlorohydrin resins	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Di-n-propylamine	Y	S/P	2	2G	Cont	No			No	R	F-T	A	No	15.12.3, 15.19.6
Dipropylene glycol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Dithiocarbamate ester (C7-C35)	X	P	2	2G	Open	No			Yes	O	No	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Ditridecyl adipate	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Ditridecyl phthalate	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Diundecyl phthalate	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Dodecane (all isomers)	Y	P	2	2G	Cont	No			No	R	F	AB	No	15.19.6
tert-Dodecanethiol	X	S/P	1	2G	Cont	No	-	-	Yes	C	T	AB D	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Dodecene (all isomers)	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Dodecyl alcohol	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Dodecylamine/Tetradecylamine mixture	Y	S/P	2	2G	Cont	No			Yes	R	T	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Dodecylbenzene	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Dodecyl diphenyl ether disulphonate solution	X	S/P	2	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6)
Dodecyl hydroxypropyl sulphide	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Dodecyl methacrylate	Z	S/P	3	2G	Open	No			Yes	O	No	A	No	15.13
Dodecyl/Octadecyl methacrylate mixture	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.13, 15.19.6, 16.2.3-6. (16.2.6), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Dodecyl/Pentadecyl methacrylate mixture	Y	S/P	2	2G	Open	No			Yes	O	No	AD	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Dodecyl phenol	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Dodecyl Xylene	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Drilling brines (containing zinc salts)	X	P	2	2G	Open	No			Yes	O	No	No	No	15.19.6
Drilling brines, including:calcium bromide solution, calcium chloride	Z	P	3	2G	Open	No			Yes	O	No	A	No	

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
solution and sodium chloride solution														
Epichlorohydrin	Y	S/P	2	2G	Cont	No		IIB	No	C	F-T	A	Yes	15.12, 15.17, 15.19.6 15.19 & 15.22.12 (15.19)
Ethanolamine	Y	S/P	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	No	16.2.3-9. (16.2.9)
2-Ethoxyethyl acetate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Ethoxylated long chain (C16+) alkyloxyalkylamine	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
<u>Ethoxylated tallow amine (>95%)</u>	<u>X</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>Inert</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>C</u>	<u>T</u>	<u>AB</u> <u>C</u>	<u>Yes</u>	<u>15.12, 15.17,</u> <u>15.19 & 15.22.12 (15.19),</u> <u>16.2.3-6. (16.2.6),</u> <u>16.2.3-9. (16.2.9)</u>
Ethyl acetate	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Ethyl acetoacetate	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Ethyl acrylate	Y	S/P	2	2G	Cont	No	T2	IIB	No	R	F-T	A	Yes	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Ethylamine	Y	S/P	2	1G	Cont	No	T2	IIA	No	C	F-T	CD	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.19.6
Ethylamine solutions (72% or less)	Y	S/P	2	2G	Cont	No			No	C	F-T	AC	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.17, 15.19 & 15.22.12 (15.19)
Ethyl amyl ketone	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Ethylbenzene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Ethyl tert-butyl ether	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Ethyl butyrate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Ethylcyclohexane	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
N-Ethylcyclohexylamine	Y	S/P	2	2G	Cont	No			No	R	F-T	A	No	15.19.6
S-Ethyl dipropylthiocarbamate	Y	P	2	2G	Open	No			Yes	O	No	A	No	16.2.3-9. (16.2.9)
Ethylene chlorohydrin	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	AD	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Ethylene cyanohydrin	Y	S/P	3	2G	Open	No		IIB	Yes	O	No	A	No	15.19.6
Ethylenediamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.19.6, 16.2.3-9. (16.2.9)
Ethylenediaminetetraacetic acid,	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
tetrasodium salt solution														
Ethylene dibromide	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes	15.12, 15.19.6, 16.2.3-9. (16.2.9)
Ethylene dichloride	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	AB	No	15.19 & 15.22.12 (15.19)
Ethylene glycol	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Ethylene glycol acetate	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Ethylene glycol butyl ether acetate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Ethylene glycol diacetate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Ethylene glycol methyl ether acetate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Ethylene glycol monoalkyl ethers	Y	S/P	3	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Ethylene glycol phenyl ether	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	Y	S/P	2	1G	Cont	Inert	T2	IIB	No	C	F-T	AC	No	15.8 & 15.22.8 (15.8), 15.12, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19)
Ethylene-vinyl acetate copolymer (emulsion)	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Ethyl-3-ethoxypropionate	Y	P	3	2G	Cont	No			No	R	No	A	No	15.19.6
2-Ethylhexanoic acid	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
2-Ethylhexyl acrylate	Y	S/P	3	2G	Open	No	T3	IIB	Yes	O	No	A	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
2-Ethylhexylamine	Y	S/P	2	2G	Cont	No			No	R	F-T	A	No	15.12, 15.19.6
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Ethylidene norbornene	Y	S/P	2	2G	Cont	No			No	R	F-T	AD	No	15.12.1, 15.19.6
Ethyl methacrylate	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	AD	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
N-Ethylmethylallylamine	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	F	AC	Yes	15.12.3, 15.17, 15.19 & 15.22.12 (15.19)
Ethyl propionate	Y	P	3	2G	Open	No			No	R	F	A	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
2-Ethyl-3-propylacrolein	Y	S/P	3	2G	Cont	No		IIA	No	R	F-T	A	No	15.19.6, 16.2.3-9. (16.2.9)
Ethyl toluene	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Fatty acid (saturated C13+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Fatty acid methyl esters (m)	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Fatty acids, (C16+)	Y	P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6)
Fatty acids, [C12+]	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Fatty acids, [C8-C10]	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Fatty acids, essentially linear (C6-C18), 2-ethylhexyl ester	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6
Ferric chloride solutions	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.11, 15.19.6, 16.2.3-9. (16.2.9)
Ferric nitrate/Nitric acid solution	Y	S/P	2	2G	Cont	No			NF	R	T	No	Yes	15.11, 15.19 & 15.22.12 (15.19)
Fish oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Fluorosilicic acid (20-30%) in water solution	Y	S/P	3	1G	Cont	No	-	-	NF	R	T	No	Yes	15.11, 15.19.6
Formaldehyde solutions (45% or less)	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	F-T	A	Yes	15.19.6, 16.2.3-9. (16.2.9)
Formamide	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Formic acid	Y	S/P	3	2G	Cont	No	T1	IIA	No	R	T(g)	A	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6, 16.2.3-9. (16.2.9)
Furfural	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	F-T	A	No	15.19.6
Furfuryl alcohol	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Glucitol/glycerol blend propoxylated (containing less than 10% amines)	Z	S/P	3	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19.6
Glutaraldehyde solutions (50% or less)	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6
Glycerol monooleate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Glycerol propoxylated	Z	S/P	3	2G	Cont	No	-	-	Yes	R	T	AB C	No	15.12.3, 15.12.4, 15.19.6
Glycerol, propoxylated and ethoxylated	Z	P	3	2G	Open	No	-	-	Yes	O	No	AB C	No	
Glycerol/sucrose blend propoxylated and ethoxylated	Z	P	3	2G	Open	No	-	-	Yes	O	No	AB C	No	
Glyceryl triacetate	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Glycidyl ester of C10 trialkylacetic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Glycine, sodium salt solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Glycolic acid solution (70% or less)	Z	S/P	3	2G	Open	No	-	-	NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Glyoxal solution (40% or less)	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Glyoxylic acid solution (50% or less)	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	AC D	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6, 16.2.3-9. (16.2.9), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Glyphosate solution (not containing surfactant)	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Groundnut oil	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Heptane (all isomers)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
n-Heptanoic acid	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Heptanol (all isomers) (d)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Heptene (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Heptyl acetate	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
1-Hexadecylnaphthalene /	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
1,4-bis(hexadecyl)naphthalene mixture														
Hexamethylenediamine (molten)	Y	S/P	2	2G	Cont	No			Yes	C	T	C	Yes	15.12, 15.17, 15.18, 15.19.6, 16.2.3-9. (16.2.9)
Hexamethylenediamine adipate (50% in water)	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Hexamethylenediamine solution	Y	S/P	3	2G	Cont	No			Yes	R	T	A	No	15.19.6
Hexamethylene diisocyanate	Y	S/P	2	1G	Cont	Dry	T1	IIB	Yes	C	T	AC (b) D	Yes	15.12, 15.22.11 (15.16.2), 15.17, 15.18, 15.19 & 15.22.12 (15.19)
Hexamethylene glycol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Hexamethyleneimine	Y	S/P	2	2G	Cont	No			No	R	F-T	AC	No	15.19.6
Hexane (all isomers)	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
1,6-Hexanediol, distillation overheads	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-9. (16.2.9)
Hexanoic acid	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
Hexanol	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
Hexene (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Hexyl acetate	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Hydrochloric acid	Z	S/P	3	1G	Cont	No			NF	R	T	No	Yes	15.11
Hydrogen peroxide solutions (over 60% but not over 70% by mass)	Y	S/P	2	2G	Cont	No			NF	C	No	No	No	15.5.1 & 15.22.4 (15.5.1), 15.19.6
Hydrogen peroxide solutions (over 8% but not over 60% by mass)	Y	S/P	3	2G	Cont	No			NF	C	No	No	No	15.5.2, 15.18, 15.19.6
2-Hydroxyethyl acrylate	Y	S/P	2	2G	Cont	No			Yes	C	T	A	No	15.12, 15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
2-Hydroxy-4-(methylthio)butanoic acid	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Illipe oil	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Isoamyl alcohol	Z	P	3	2G	Cont	No			No	R	F	AB	No	

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Isobutyl alcohol	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Isobutyl formate	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Isobutyl methacrylate	Z	P	3	2G	Cont	No	-	-	No	R	F	A	No	15.12, 15.13, 15.17, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Isophorone	Y	S/P	3	2G	Cont	No			Yes	R	No	A	No	15.19.6
Isophoronediamine	Y	S/P	3	2G	Cont	No			Yes	R	T	A	No	16.2.3-9. (16.2.9)
Isophorone diisocyanate	X	S/P	2	2G	Cont	Dry			Yes	C	T	AB D	No	15.12, 15.16.2 & 15.22.11 (15.16.2), 15.17, 15.19.6
Isoprene	Y	S/P	3	2G	Cont	No	T3	IIB	No	R	F	B	No	15.13, 15.14 & 15.22.10 (15.14), 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Isopropanolamine	Y	S/P	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	No	15.19.6, 16.2.3-6 (16.2.6), 16.2.3-9. (16.2.9)
Isopropyl acetate	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Isopropylamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	CD	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19)
Isopropylamine (70% or less) solution	Y	S/P	2	2G	Cont	No			No	C	F-T	CD	Yes	15.12, 15.19.6, 16.2.3-9. (16.2.9)
Isopropylcyclohexane	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Isopropyl ether	Y	S/P	3	2G	Cont	Inert			No	R	F	A	No	15.4.6, 15.13.3, 15.19.6
Lactic acid	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Lactonitrile solution (80% or less)	Y	S/P	2	1G	Cont	No			Yes	C	T	AC D	Yes	15.12, 15.13, 15.17, 15.18, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Lard	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Latex, ammonia (1% or less)-inhibited	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Lauric acid	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Ligninsulphonic acid, sodium salt solution	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Linseed oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Liquid chemical wastes	X	S/P	2	2G	Cont	No			No	C	F-T	A	Yes	15.12, 15.19.6, 20.5.1
Long-chain alkaryl polyether (C11-C20)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Long-chain alkaryl sulphonic acid (C16-C60)	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Long-chain alkylphenate/Phenol sulphide mixture	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
L-Lysine solution (60% or less)	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Magnesium chloride solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Magnesium long-chain alkaryl sulphonate (C11-C50)	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Magnesium long-chain alkyl salicylate (C11+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Maleic anhydride	Y	S/P	3	2G	Cont	No			Yes	R	No	AC (f)	No	16.2.3-9. (16.2.9)
Mango kernel oil	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Mercaptobenzothiazol, sodium salt solution	X	S/P	2	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Mesityl oxide	Z	S/P	3	2G	Cont	No	T2	IIB	No	R	F-T	A	No	15.19.6
Metam sodium solution	X	S/P	1	2G	Open	No			NF	O	No	No	No	15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Methacrylic acid	Y	S/P	3	2G	Cont	No			Yes	R	T	A	No	15.13, 15.19.6, 16.2.3-9. (16.2.9) 16.2.7-1. (16.6.1)
Methacrylic acid- alkoxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	Z	S/P	3	2G	Open	No	-	-	NF	O	No	AC	No	16.2.3-9. (16.2.9)
Methacrylic resin in ethylene dichloride	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	AB	No	15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Methacrylonitrile	Y	S/P	2	2G	Cont	No			No	C	F-T	A	Yes	15.12, 15.13, 15.17, 15.19 & 15.22.12 (15.19)
3-Methoxy-1-butanol	Z	P	3	2G	Cont	No			No	R	F	A	No	
3-Methoxybutyl acetate	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
N-(2-Methoxy-1-methylethyl)-2-ethyl-6-methyl chloroacetanilide	X	P	1	2G	Open	No			Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Methyl acetate	Z	P	3	2G	Cont	No			No	R	F	A	No	
Methyl acetoacetate	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Methyl acrylate	Y	S/P	2	2G	Cont	No	T1	IIB	No	R	F-T	A	Yes	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Methyl alcohol	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Methylamine solutions (42% or less)	Y	S/P	2	2G	Cont	No			No	C	F-T	AC D	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Methylamyl acetate	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Methylamyl alcohol	Z	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Methyl amyl ketone	Z	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Methylbutenol	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Methyl tert-butyl ether	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Methyl butyl ketone	Y	P	3	2G	Cont	No			No	R	F	AB	No	15.19.6
Methylbutynol	Z	P	3	2G	Cont	No			No	R	F	A	No	
Methyl butyrate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Methylcyclohexane	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Methylcyclopentadiene dimer	Y	P	2	2G	Cont	No			No	R	F	B	No	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Methylcyclopentadienyl manganese tricarbonyl	X	S/P	1	1G	Cont	No	-	-	Yes	C	T	AB CD	Yes	15.12, 15.18, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Methyl diethanolamine	Y	S/P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
2-Methyl-6-ethyl aniline	Y	S/P	3	2G	Open	No			Yes	O	No	AD	No	15.19.6
Methyl ethyl ketone	Z	P	3	2G	Cont	No			No	R	F	A	No	
2-Methyl-5-ethyl pyridine	Y	S/P	3	2G	Open	No		IIA	Yes	O	No	AD	No	15.19.6
Methyl formate	Z	S/P	2	2G	Cont	No			No	R	F-T	A	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19)
2-Methyl-2-hydroxy-3-butyne	Z	S/P	3	2G	Cont	No		IIA	No	R	F-T	AB D	No	15.19.6, 16.2.3-9. (16.2.9)
Methyl isobutyl ketone	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Methyl methacrylate	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
3-Methyl-3-methoxybutanol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Methyl naphthalene (molten)	X	S/P	2	2G	Cont	No			Yes	R	No	AD	No	15.19.6
2-Methyl-1, 3-propanediol	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	
2-Methylpyridine	Z	S/P	2	2G	Cont	No			No	C	F	A	No	15.12.3, 15.19.6
3-Methylpyridine	Z	S/P	2	2G	Cont	No			No	C	F	AC	No	15.12.3, 15.19 & 15.22.12 (15.19)
4-Methylpyridine	Z	S/P	2	2G	Cont	No			No	C	F-T	A	No	15.12.3, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
N-Methyl-2-pyrrolidone	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Methyl salicylate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
alpha-Methylstyrene	Y	S/P	2	2G	Cont	No	T1	IIB	No	R	F-T	AD (j)	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
3-(methylthio)propionaldehyde	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	F-T	BC	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Molybdenum polysulfide long chain alkyl dithiocarbamide complex	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AB C	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														16.2.3-9. (16.2.9)
Morpholine	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F	A	No	15.19.6
Motor fuel anti-knock compounds (containing lead alkyls)	X	S/P	1	1G	Cont	No	T4	IIA	No	C	F-T	AC	Yes	15.6 & 15.22.6 (15.6), 15.12, 15.18, 15.19 & 15.22.12 (15.19)
Myrcene	X	P	2	2G	Cont	No	-	-	No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Naphthalene (molten)	X	S/P	2	2G	Cont	No	T1	IIA	Yes	R	No	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Neodecanoic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Nitrating acid (mixture of sulphuric and nitric acids)	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes	15.11, 15.16.2 & 15.22.11 (15.16.2), 15.17, 15.19 & 15.22.12 (15.19)
Nitric acid (70% and over)	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes	15.11, 15.19 & 15.22.12 (15.19)
Nitric acid (less than 70%)	Y	S/P	2	2G	Cont	No			NF	R	T	No	Yes	15.11, 15.19 & 15.22.12 (15.19)
Nitrilotriacetic acid, trisodium salt solution	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
Nitrobenzene	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	AD	No	15.12, 15.17, 15.18, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Nitroethane	Y	S/P	3	2G	Cont	No		IIB	No	R	F-T	A(f)	No	15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-4. (16.6.4)
Nitroethane(80%)/Nitropropane(20%)	Y	S/P	3	2G	Cont	No		IIB	No	R	F-T	A(f)	No	15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Nitroethane, 1-Nitropropane (each 15% or more) mixture	Y	S/P	3	2G	Cont	No	-	-	No	R	F	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														16.2.7-3. (16.2.3)
o-Nitrophenol (molten)	Y	S/P	2	2G	Cont	No			Yes	C	T	AD	No	15.12, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
1-or 2-Nitropropane	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	F-T	A	No	15.19.6
Nitropropane (60%)/Nitroethane (40%) mixture	Y	S/P	3	2G	Cont	No			No	R	F-T	A(f)	No	15.19.6
o-or p-Nitrotoluenes	Y	S/P	2	2G	Cont	No		IIB	Yes	C	T	AB	No	15.12, 15.17, 15.19.6
Nonane (all isomers)	X	P	2	2G	Cont	No			No	R	F	BC	No	15.19.6
Nonanoic acid (all isomers)	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Non-edible industrial grade palm oil	Y	S/P	2	2G	Cont	No	-	-	Yes	R	No	AB C	No	15.12.3, 15.12.4, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Nonene (all isomers)	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Nonyl alcohol (all isomers)	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Nonyl methacrylate monomer	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Nonylphenol	X	P	1	2G	Open	No			Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Nonylphenol poly (4+) ethoxylate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Noxious liquid, NF, (1) n.o.s. (trade name, contains) ST1, Cat. X	X	P	1	2G	Open	No	-	-	Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Noxious liquid, F, (2) n.o.s. (trade name, contains) ST1, Cat. X	X	P	1	2G	Cont	No	T3	IIA	No	R	F	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Noxious liquid, NF, (3) n.o.s. (trade name, contains) ST2, Cat. X	X	P	2	2G	Open	No	-		Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Noxious liquid, F, (4) n.o.s. (trade name, contains) ST2, Cat. X	X	P	2	2G	Cont	No	T3	IIA	No	R	F	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Noxious liquid, NF, (5) n.o.s. (trade name, contains) ST2, Cat. Y	Y	P	2	2G	Open	No	-		Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)(l)
Noxious liquid, F, (6) n.o.s. (trade name, contains) ST2, Cat. Y	Y	P	2	2G	Cont	No	T3	IIA	No	R	F	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														16.2.3-9. (16.2.9)(l)
Noxious liquid, NF, (7) n.o.s. (trade name, contains) ST3, Cat. Y	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)(l)
Noxious liquid, F, (8) n.o.s. (trade name, contains) ST3, Cat. Y	Y	P	3	2G	Cont	No	T3	IIA	No	R	F	A	No	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)(l)
Noxious liquid, NF, (9) n.o.s. (trade name, contains) ST3, Cat. Z	Z	P	3	2G	Open	No	-		Yes	O	No	A	No	
Noxious liquid, F, (10) n.o.s. (trade name, contains) ST3, Cat. Z	Z	P	3	2G	Cont	No	T3	IIA	No	R	F	A	No	
Octane (all isomers)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Octanoic acid (all isomers)	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Octanol (all isomers)	Y	P	2	2G	Open	No			Yes	O	No	A	No	
Octene (all isomers)	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
n-Octyl acetate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Octyl aldehydes	Y	P	3	2G	Cont	No	-	-	No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Octyl decyl adipate	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Olefin-Alkyl ester copolymer (molecular weight 2000+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Olefin mixtures (C5-C7)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Olefin mixtures (C5-C15)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Olefins (C13+, all isomers)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
alpha-Olefins (C6-C18) mixtures	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Oleic acid	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Oleum	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes	15.11.2~15.11.8, 15.12.1, 15.16.2 & 15.22.11 (15.16.2), 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Oleylamine	X	S/P	2	2G	Cont	No			Yes	R	T	A	No	15.19.6, 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Olive oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Oxygenated aliphatic hydrocarbon mixture	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AB C	No	
Palm acid oil	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm fatty acid distillate	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm kernel acid oil	Y	S/P	2	2G	Open	No			Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
<u>Palm kernel fatty acid distillate</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>R</u>	<u>T</u>	<u>AB C</u>	<u>No</u>	<u>15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)</u>
Palm kernel oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm kernel olein	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm kernel stearin	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm mid-fraction	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm oil fatty acid methyl ester	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Palm olein	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Palm stearin	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Paraffin wax	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Paraldehyde	Z	S/P	3	2G	Cont	No	T3	IIB	No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)
Paraldehyde-ammonia reaction product	Y	S/P	2	2G	Cont	No			No	C	F-T	A	No	15.12.3, 15.19 & 15.22.12 (15.19)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Pentachloroethane	Y	S/P	2	2G	Cont	No			NF	R	T	No	No	15.12, 15.17, 15.19.6
1,3-Pentadiene	Y	P	3	2G	Cont	No			No	R	F-T	AB	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Pentaethylenehexamine	X	S/P	2	2G	Open	No			Yes	O	No	B	Yes	15.19 & 15.22.12 (15.19)
Pentane (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.14 & 15.22.10 (15.14), 15.19.6
Pentanoic acid	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	Y	S/P	2	2G	Open	No	T2		Yes	C	No	AD	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.12.3, 15.19 & 15.22.12 (15.19)
Pentene (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.14 & 15.22.10 (15.14), 15.19.6
n-Pentyl propionate	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Perchloroethylene	Y	S/P	2	2G	Cont	No			NF	R	T	No	No	15.12.1, 15.12.2, 15.19.6
Petrolatum	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Phenol	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	A	No	15.12, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
1-Phenyl-1-xylyl ethane	Y	P	3	2G	Open	No			Yes	O	No	AB	No	
Phosphate esters, alkyl (C12-C14) amine	Y	P	2	2G	Cont	No	-	-	No	R	F	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Phosphoric acid	Z	S/P	3	2G	Open	No			NF	O	No	No	No	15.11.1, 15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 16.2.3-9. (16.2.9)
Phosphorus, yellow or white	X	S/P	1	1G	Cont	Pad+(ve nt or inert)			No(c)	C	No	C	Yes	15.7 & 15.22.7 (15.7), 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Phthalic anhydride (molten)	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	R	No	AD	No	15.19.6, 16.2.3-6. (16.2.6),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														16.2.3-9. (16.2.9)
alpha-Pinene	<i>X</i>	<i>P</i>	2	2 <i>G</i>	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>R</i>	<i>F</i>	<i>A</i>	<i>No</i>	15.19.6
beta-Pinene	<i>X</i>	<i>P</i>	2	2 <i>G</i>	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>R</i>	<i>F</i>	<i>A</i>	<i>No</i>	15.19.6
Pine oil	<i>X</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyacrylic acid solution (40% or less)	<i>Z</i>	<i>S/P</i>	3	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AC</i>	<i>No</i>	
<u>Polyalkylalkenaminesuccinimide, molybdenum oxysulphide</u>	<u><i>Y</i></u>	<u><i>P</i></u>	<u>2</u>	<u>2<i>G</i></u>	<u><i>Open</i></u>	<u><i>No</i></u>	<u>-</u>	<u>-</u>	<u><i>Yes</i></u>	<u><i>O</i></u>	<u><i>No</i></u>	<u><i>AB</i></u> <u><i>C</i></u>	<u><i>No</i></u>	<u>15.19.6, 16.2.3-6. (16.2.6)</u>
Polyalkyl (C18-C22) acrylate in xylene	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Cont</i>	<i>No</i>			<i>No</i>	<i>R</i>	<i>F</i>	<i>AB</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether	<i>Z</i>	<i>P</i>	3	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether acetate	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6
Polyalkyl (C10-C20) methacrylate	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>AB</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polybutene	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6)
Polybutenyl succinimide	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Poly(2+)cyclic aromatics	<i>X</i>	<i>P</i>	1	2 <i>G</i>	<i>Cont</i>	<i>No</i>			<i>Yes</i>	<i>R</i>	<i>No</i>	<i>AD</i>	<i>No</i>	15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyether (molecular weight 1350+)	<i>Y</i>	<i>P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-6. (16.2.6)
Polyethylene glycol	<i>Z</i>	<i>P</i>	3	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Polyethylene glycol dimethyl ether	<i>Z</i>	<i>P</i>	3	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	
Polyethylene polyamines	<i>Y</i>	<i>S/P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>	-	-	<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6
Polyethelene polyamines (more than 50% C5-C20 paraffin oil)	<i>Y</i>	<i>S/P</i>	2	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>Yes</i>	<i>O</i>	<i>No</i>	<i>A</i>	<i>No</i>	15.19.6, 16.2.3-9. (16.2.9)
Polyferric sulphate solution	<i>Y</i>	<i>S/P</i>	3	2 <i>G</i>	<i>Open</i>	<i>No</i>			<i>NF</i>	<i>O</i>	<i>No</i>	<i>No</i>	<i>No</i>	15.19.6

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Poly (iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less)	Z	S/P	3	2G	Open	No	-	-	NF	O	No	AC	No	16.2.3-9. (16.2.9)
Polyisobutenamine in aliphatic (C10-C14) solvent	Y	P	3	2G	Open	No	T3	IIA	Yes	O	No	A	No	15.19.6
Polyisobutenyl anhydride adduct	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Poly(4+)isobutylene	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Polymethylene polyphenyl isocyanate	Y	S/P	2	2G	Cont	Dry			Yes(a)	C	T(a)	A	No	15.12, 15.16.2 & 15.22.11 (15.16.2), 15.19.6, 16.2.3-9. (16.2.9)
Polyolefin (molecular weight 300+)	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin amide alkeneamine (C17+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Polyolefin amide alkeneamine borate (C28-C250)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
<u>Polyolefin amide alkeneamine polyol</u>	<u>Y</u>	<u>S/P</u>	<u>2</u>	<u>2G</u>	<u>Cont</u>	<u>No</u>	<u>-</u>	<u>-</u>	<u>Yes</u>	<u>C</u>	<u>T</u>	<u>AB</u> <u>C</u>	<u>Yes</u>	<u>15.12, 15.17, 15.19, 16.2.3-6. (16.2.6)</u>
Polyolefinamine (C28-C250)	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Polyolefinamine in alkyl (C2-C4) benzenes	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefinamine in aromatic solvent	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin aminoester salts (molecular weight 2000+)	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin anhydride	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin ester (C28-C250)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin phenolic amine (C28-C250)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Polyolefin phosphorosulphide, barium derivative (C28-C250)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Poly(20)oxyethylene sorbitan monooleate	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Poly(5+)propylene	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Polypropylene glycol	Z	S/P	3	2G	Open	No			Yes	O	No	AB C	No	15.19.6
Polysiloxane	Y	P	3	2G	Cont	No			No	R	F	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Potassium chloride solution	Z	S/P	3	2G	Open	No	-	-	NF	O	No	A	No	16.2.3-9. (16.2.9)
Potassium hydroxide solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6
Potassium oleate	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Potassium thiosulphate (50% or less)	Y	P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
n-Propanolamine	Y	S/P	3	2G	Open	No			Yes	O	No	AD	No	15.19.6, 16.2.3-9. (16.2.9)
beta-Propiolactone	Y	S/P	2	2G	Cont	No		IIA	Yes	R	T	A	No	15.19.6
Propionaldehyde	Y	S/P	3	2G	Cont	No			No	R	F-T	A	Yes	15.17, 15.19.6
Propionic acid	Y	S/P	3	2G	Cont	No	T1	IIA	No	R	F	A	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6
Propionic anhydride	Y	S/P	3	2G	Cont	No	T2	IIA	Yes	R	T	A	No	15.19.6
Propionitrile	Y	S/P	2	1G	Cont	No	T1	IIB	No	C	F-T	AD	Yes	15.12, 15.17, 15.18, 15.19 & 15.22.12 (15.19)
n-Propyl acetate	Y	P	3	2G	Cont	No			No	R	F	AB	No	15.19.6
n-Propyl alcohol	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
n-Propylamine	Z	S/P	2	2G	Cont	Inert	T2	IIA	No	C	F-T	AD	Yes	15.12, 15.19 & 15.22.12 (15.19)
Propylbenzene (all isomers)	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Propylene glycol methyl ether acetate	Z	P	3	2G	Cont	No			No	R	F	A	No	
Propylene glycol monoalkyl ether	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Propylene glycol phenyl ether	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Propylene oxide	Y	S/P	2	2G	Cont	Inert	T2	IIB	No	C	F-T	AC	No	15.8 & 15.22.8 (15.8), 15.12.1, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Propylene tetramer	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Propylene trimer	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Pyridine	Y	S/P	3	2G	Cont	No	T1	IIA	No	R	F	A	No	15.19.6
Pyrolysis gasoline (containing benzene)	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	F-T	AB	No	15.12, 15.17, 15.19.6
Rapeseed oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Rapeseed oil (low erucic acid containing less than 4% free fatty acids)	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Rape seed oil fatty acid methyl esters	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Resin oil, distilled	Y	S/P	2	2G	Cont	No	T1	IIA	No	C	F-T	AB C	No	15.12, 15.17, 15.19.6
Rice bran oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Rosin	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Safflower oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Shea butter	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Sodium alkyl (C14-C17) sulphonates (60-65% solution)	Y	P	2	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Sodium aluminosilicate slurry	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Sodium benzoate	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Sodium borohydride (15% or less)/Sodium hydroxide solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Sodium carbonate solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Sodium chlorate solution (50% or less)	Z	S/P	3	2G	Open	No			NF	O	No	No	No	15.9 & 15.22.9 (15.9), 15.19.6, 16.2.3-9. (16.2.9)
Sodium dichromate solution (70% or less)	Y	S/P	2	2G	Open	No			NF	C	No	No	No	15.12.3, 15.19 & 15.22.12 (15.19)
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less)	Z	P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
solution														
Sodium hydrogen sulphite solution (45% or less)	Z	S/P	3	2G	Open	No			NF	O	No	No	No	16.2.3-9. (16.2.9)
Sodium hydrosulphide/Ammonium sulphide solution	Y	S/P	2	2G	Cont	No			No	C	F-T	A	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.17, 15.19 & 15.22.12 (15.19), 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2), 16.2.7-3. (16.6.3)
Sodium hydrosulphide solution (45% or less)	Z	S/P	3	2G	Cont	Vent or pad(gas)			NF	R	T	No	No	15.19.6, 16.2.3-9. (16.2.9)
Sodium hydroxide solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Sodium hypochlorite solution (15% or less)	Y	S/P	2	2G	Cont	No	-	-	NF	R	No	No	No	15.19.6
Sodium nitrite solution	Y	S/P	2	2G	Open	No			NF	O	No	No	No	15.12.3.1, 15.12.3.2, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Sodium petroleum sulphonate	Y	S/P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Sodium poly(4+)acrylate solutions	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Sodium silicate solution	Y	P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Sodium sulphide solution (15% or less)	Y	S/P	3	2G	Cont	No			NF	C	T	No	No	15.19.6, 16.2.3-9. (16.2.9)
Sodium sulphite solution (25% or less)	Y	P	3	2G	Open	No			NF	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Sodium thiocyanate solution (56% or less)	Y	P	3	2G	Open	No			Yes	O	No	No	No	15.19.6, 16.2.3-9. (16.2.9)
Soyabean oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Styrene monomer	Y	S/P	3	2G	Cont	No	T1	IIA	No	R	F	AB	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Sulphohydrocarbon (C3-C88)	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Sulpholane	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Sulphur (molten)	Z	S	3	1G	Open	Vent or pad(gas)	T3		Yes	O	F-T	No	No	15.10, 16.2.3-9. (16.2.9)
Sulphuric acid	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.11, 15.16.2 & 15.22.11 (15.16.2), 15.19.6
Sulphuric acid, spent	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.11, 15.16.2 & 15.22.11 (15.16.2), 15.19.6
Sulphurized fat (C14-C20)	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Sulphurized polyolefinamide alkene (C28-C250) amine	Z	P	3	2G	Open	No	-	-	Yes	O	No	A	No	
Sunflower seed oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Tall oil, crude	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AB C	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Tall oil, distilled	Y	P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6)
Tall oil fatty acid (resin acids less than 20%)	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6
Tall oil pitch	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AB C	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Tallow	Y	P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Tallow fatty acid	Y	P	2	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Tetrachloroethane	Y	S/P	2	2G	Cont	No			NF	R	T	No	No	15.12, 15.17, 15.19.6
Tetraethylene glycol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Tetraethylene pentamine	Y	S/P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Tetrahydrofuran	Z	S	3	2G	Cont	No	T3	IIB	No	R	F-T	A	No	15.19.6
Tetrahydronaphthalene	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Tetramethylbenzene (all isomers)	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Titanium dioxide slurry	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Toluene	Y	P	3	2G	Cont	No			No	R	F	A	No	15.19.6
Toluenediamine	Y	S/P	2	2G	Cont	No			Yes	C	T	AD	Yes	15.12, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Toluene diisocyanate	Y	S/P	2	2G	Cont	Dry	T1	IIA	Yes	C	F-T	AC (b) D	Yes	15.12, 15.16.2 & 15.22.11 (15.16.2), 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
o-Toluidine	Y	S/P	2	2G	Cont	No			Yes	C	T	A	No	15.12, 15.17, 15.19 & 15.22.12 (15.19)
Tributyl phosphate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
1,2,3-Trichlorobenzene (molten)	X	S/P	1	2G	Cont	No			Yes	C	T	AC D	Yes	15.12.1, 15.17, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
1,2,4-Trichlorobenzene	X	S/P	1	2G	Cont	No			Yes	R	T	AB	No	15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
1,1,1-Trichloroethane	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6
1,1,2-Trichloroethane	Y	S/P	3	2G	Cont	No			NF	R	T	No	No	15.12.1, 15.19.6
Trichloroethylene	Y	S/P	2	2G	Cont	No	T2	IIA	Yes	R	T	No	No	15.12, 15.17, 15.19.6
1,2,3-Trichloropropane	Y	S/P	2	2G	Cont	No			Yes	C	T	AB D	No	15.12, 15.17, 15.19 & 15.22.12 (15.19)
1,1,2-Trichloro-1,2,2-Trifluoroethane	Y	P	2	2G	Open	No			NF	O	No	No	No	15.19.6
Tricresyl phosphate (containing 1% or more ortho-isomer)	Y	S/P	1	2G	Cont	No	T2	IIA	Yes	C	No	AB	No	15.12.3, 15.19 & 15.22.12 (15.19), 16.2.3-6. (16.2.6)
Tricresyl phosphate (containing less than 1% ortho-isomer)	Y	S/P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Tridecane	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6
Tridecanoic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Tridecyl acetate	Y	P	3	2G	Open	No	-	-	Yes	O	No	A	No	15.19.6
Triethanolamine	Z	S/P	3	2G	Open	No		IIA	Yes	O	No	A	No	16.2.3-9. (16.2.9)
Triethylamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	AC	Yes	15.12, 15.19.6
Triethylbenzene	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Triethylenetetramine	Y	S/P	2	2G	Open	No	T2	IIA	Yes	O	No	A	No	15.19.6
Triethyl phosphate	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Triethyl phosphite	Z	S/P	3	2G	Cont	No			No	R	F-T	AB	No	15.12.1, 15.19.6, 16.2.3-9. (16.2.9)
Triisopropanolamine	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Triisopropylated phenyl phosphates	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Trimethylacetic acid	Y	S/P	2	2G	Cont	No			Yes	R	No	A	No	15.11.2, 15.11.3, 15.11.4, 15.11.5, 15.11.6, 15.11.7, 15.11.8, 15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Trimethylamine solution (30% or less)	Z	S/P	2	2G	Cont	No			No	C	F-T	AC	Yes	15.12, 15.14 & 15.22.10 (15.14), 15.19 & 15.22.12 (15.19), 16.2.3-9. (16.2.9)
Trimethylbenzene (all isomers)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Trimethylol propane propoxylated	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AB C	No	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
1,3,5-Trioxane	Y	S/P	3	2G	Cont	No			No	R	F	AD	No	15.19.6, 16.2.3-9. (16.2.9)
Tripropylene glycol	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Trixylyl phosphate	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-6. (16.2.6)
Tung oil	Y	S/P	2 (k)	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Turpentine	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Undecanoic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No	16.2.3-6. (16.2.6),

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
														16.2.3-9. (16.2.9)
1-Undecene	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Undecyl alcohol	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.3-9. (16.2.9)
Urea/Ammonium nitrate solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Urea/Ammonium nitrate solution (containing less than 1% free ammonia)	Z	S/P	3	2G	Cont	No			NF	R	T	A	No	16.2.3-9. (16.2.9)
Urea/Ammonium phosphate solution	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Urea solution	Z	P	3	2G	Open	No			Yes	O	No	A	No	
Valeraldehyde (all isomers)	Y	S/P	3	2G	Cont	Inert	T3	IIB	No	R	F-T	A	No	15.4.6, 15.19.6
Vegetable acid oils (m)	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Vegetable fatty acid distillates (m)	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AB C	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Vinyl acetate	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F	A	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Vinyl ethyl ether	Z	S/P	2	1G	Cont	Inert	T3	IIB	No	C	F-T	A	Yes	15.4, 15.13, 15.14 & 15.22.10 (15.14), 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Vinylidene chloride	Y	S/P	2	2G	Cont	Inert	T2	IIA	No	R	F-T	B	Yes	15.13, 15.14 & 15.22.10 (15.14), 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Vinyl neodecanoate	Y	S/P	2	2G	Open	No			Yes	O	No	AB	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Vinyltoluene	Y	S/P	2	2G	Cont	No		IIA	No	R	F	AB	No	15.13, 15.19.6, 16.2.7-1. (16.6.1), 16.2.7-2. (16.6.2)
Waxes	Y	P	2	2G	Open	No	-	-	Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
White spirit, low (15-20%) aromatic	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9)

<i>a</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i'</i>	<i>i''</i>	<i>i'''</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>n</i>	<i>o</i>
<i>Product Name</i>	<i>Pollution Category</i>	<i>Hazards</i>	<i>Ship Type</i>	<i>Tank Type</i>	<i>Tank Vents</i>	<i>Tank Environmental Control</i>	<i>Electrical Equipment</i>			<i>Gauging</i>	<i>Vapour</i>	<i>Fire Extinguishing</i>	<i>Respiratory and Eye Protection</i>	<i>Special Requirements</i>
							<i>Class</i>	<i>Group</i>	<i>Flashpoint >60 °C</i>					
Xylenes	Y	P	2	2G	Cont	No			No	R	F	A	No	15.19.6, 16.2.3-9. (16.2.9) (h)
Xylenes/ethylbenzene (10% or more) mixture	Y	P	2	2G	Cont	No	-	-	No	R	F	A	No	15.19.6
Xylenol	Y	S/P	2	2G	Open	No		IIA	Yes	O	No	AB	No	15.19.6, 16.2.3-9. (16.2.9)
Zinc alkaryl dithiophosphate (C7-C16)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6), 16.2.3-9. (16.2.9)
Zinc alkenyl carboxamide	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)
Zinc alkyl dithiophosphate (C3-C14)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.3-6. (16.2.6)

(notes)

- (a): If the product to be carried contains flammable solvents such that the flashpoint does not exceed 60°C, then special electrical systems and a flammable-vapour detector are to be provided.
- (b): Although water is suitable for extinguishing open-air fires involving chemicals to which this footnote applies, water is not to be allowed to contaminate closed tanks containing these chemicals because of the risk of hazardous gas generation.
- (c): Phosphorus, yellow or white is carried above its autoignition temperature and therefore flashpoint is not appropriate. Electrical equipment requirements may be similar to those for substances with a flashpoint above 60°C.
- (d): Requirements are based on those isomers having a flashpoint of 60°C, or less; some isomers have a flashpoint greater than 60°C, and therefore the requirements based on flammability would not apply to such isomers.
- (e): Applies to n-decyl alcohol only.
- (f): Dry chemical is not to be used as fire extinguishing media.
- (g): Confined spaces are to be tested for both formic acid vapours and carbon monoxide gas, a decomposition product.
- (h): Applies to p-xylene only.
- (i): For mixtures containing no other components with safety hazards and where the pollution category is Y or less.
- (j): Only certain alcohol-resistant foams are effective.
- (k): Requirements for Ship Type identified in column *e* might be subject to regulation 4.1.3 of ANNEX II of MARPOL 73/78.
- (l): Applicable when the melting point is equal to or greater than 0°C.

Chapter 18 LIST OF CHEMICALS TO WHICH THIS PART DOES NOT APPLY (with reference to IBC Code Chapter 18)

18.1 General

18.1.1 Application

Table S18.1 has been amended as follows.

Table S18.1 List of Chemicals to Which This Part does not Apply

Product name	Pollution Category ⁽¹⁾
Acetone	Z
Alcoholic beverages, n.o.s.	Z
Apple juice	OS
n-Butyl alcohol	Z
sec-Butyl alcohol	Z
Calcium nitrate solutions (50% or less)	Z
Clay slurry	OS
Coal slurry	OS
Diethylene glycol	Z
Ethyl alcohol	Z
Ethylene carbonate	Z
Glucose solution	OS
Glycerine	Z
Glycerol ethoxylated	OS
Hexamethylenetetramine solutions	Z
Hexylene glycol	Z
Hydrogenated starch hydrolysate	OS
Isopropyl alcohol	Z
Kaolin slurry	OS
Lecithin	OS
Magnesium hydroxide slurry	Z
Maltitol solution	OS
N-Methylglucamine solution (70% or less)	Z
Methyl propyl ketone	Z
Molasses	OS
Noxious liquid, (11) n.o.s. (trade name, contains) Cat. Z ⁽²⁾	Z
Non-noxious liquid, (12) n.o.s. (trade name, contains) Cat. OS ⁽²⁾	OS
<u>Orange juice (concentrated)</u>	<u>OS</u>
<u>Orange juice (not concentrated)</u>	<u>OS</u>
Polyaluminium chloride solution	Z
Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	Z
<u>Potassium chloride solution (less than 26%)</u>	<u>OS</u>
Potassium formate solutions	Z
Propylene carbonate	Z
Propylene glycol	Z
Sodium acetate solutions	Z
<u>Sodium bicarbonate solution (less than 10%)</u>	<u>OS</u>
Sodium sulphate solutions	Z

Sorbitol solution	OS
Sulphonated polyacrylate solution	Z
Tetraethyl silicate monomer/oligomer (20% in ethanol)	Z
Triethylene glycol	Z
Vegetable protein solution (hydrolysed)	OS
Water	OS

(notes)

- (1) Some liquid substances are identified as falling into pollution category Z and, therefore, subject to certain requirements of *Annex II* of *MARPOL 73/78*.
- (2) Liquid mixtures which are assessed or provisionally assessed under regulation 6.3 of *MARPOL Annex II* as falling into Pollution Category Z or OS , and which do not present safety hazards, may be carried under the appropriate entry in this Table for “Noxious or Non-Noxious Liquid Substances, not otherwise specified (n.o.s.)”.

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 1 January 2009.

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part S

**Ships Carrying Dangerous Chemicals
in Bulk**

GUIDANCE

2009 AMENDMENT NO.1

Notice No.18 15th April 2009

Resolved by Technical Committee on 4th February 2009

Notice No.18 15th April 2009

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

Part S SHIPS CARRYING DANGEROUS CHEMICALS IN BULK

S3 SHIP ARRANGEMENTS

S3.2 Accommodation, Service and Machinery Spaces and Control Stations

Paragraph S3.2.1 has been amended as follows.

S3.2.1 Arrangements

1 With respect to the requirements specified in 3.2.1, Part S of the Rules, paint lockers, regardless of their use, are not to be located within the cargo area. However, seldom-accessed lockers that are provided at bow sections may comply with the requirements given in R4.5.1-5.

2 When segregated by a gastight deck and well ventilated, such a space is not electrically hazardous space, and in this case, arrangement of accommodation spaces, service spaces or control stations above fuel oil tanks adjacent to cargo tanks in the poop as given in **Fig. S3.2.1-1** may be accepted.

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 15 April 2009.
2. Notwithstanding the amendments to the Guidance, the current requirements may apply to ships for which the date of contract for construction is before the effective date.