

Attachment 2. to TI-20-15

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
1	Acetic acid										R ↓ C	A ↓ AC		15.11.2~15.11.4 15.11.6~15.11.8 15.19.6 16.2.9 ↓ 15.11.2~15.11.4 15.11.6~15.11.8 15.17 15.19 16.2.9	
2	Acetic anhydride											A ↓ AC		15.11.2~15.11.4 15.11.6~15.11.8 15.19.6 ↓ 15.11.2~15.11.4 15.11.6~15.11.8 15.12.3 15.12.4 15.19.6	
3	Acetochlor		P ↓ S/P									A ↓ AC			
4	Acetone cyanohydrin			2 ↓ 1	2G ↓ 1G			T1 ↓ -	IIA ↓ -			A ↓ AC		15.13 15.12 15.17 15.18 15.19 16.6.1~16.6.3 ↓ 15.12 15.13 15.17 15.19 16.6.1~16.6.3	
5	Acetonitrile			2 ↓ 3								A ↓ AC		15.12 15.19.6 ↓ 15.12.3 15.12.4 15.19.6	
6	Acetonitrile (Low purity grade)	No change													
7	Acid oil mixture from soyabean, corn (maize) and sunflower oil refining													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
8	Acrylamide solution (50% or less)			2 ↓ 3		Open ↓ Cont					No ↓ T			15.12.3 15.13 15.19.6 16.6.1 16.2.9 ↓ 15.12 15.13 15.17 15.19 16.2.9 16.6.1	
9	Acrylic acid											A ↓ AC			
10	Acrylic acid / ethenesulphonic acid copolymer with phosphonate groups, sodium salt solution							- ↓	- ↓						
11	Acrylonitrile											A ↓ AC			
12	Acrylonitrile-Styrene copolymer dispersion in polyether polyol											AB ↓ ABC			
13	Adiponitrile			3 ↓ 2				↓ -	IIB ↓ -	R ↓ C		A ↓ AC	No ↓ Yes	16.2.9 ↓ 15.12 15.17 15.19 16.2.9	

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
14	Alachlor technical (90% or more)					Open ↓ Cont					O ↓ C	No ↓ T			15.19.6 16.2.9 ↓ 15.12 15.17 15.19.6 16.2.9
15	Alcohol (C9-C11) poly (2.5-9) ethoxylate		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3~15.12.4 15.19.6 16.2.9
16	Alcohol (C6-C17) (secondary) poly(3-6)ethoxylates		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.9
17	Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.6 16.2.9
18	Alcohol (C10-C18) poly(7) ethoxylate								- ↓	- ↓			ABC ↓ AC		
19	Alcohol (C12-C16) poly(1-6)ethoxylates		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.9
20	Alcohol (C12-C16) poly(20+)ethoxylates		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.9
21	Alcohol (C12-C16) poly(7-19)ethoxylates		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.9
22	Alcohols (C13+)												AB ↓ ABC		
23	Alcohols (C12+), primary, linear														No change
24	Alcohols (C8-C11), primary, linear and essentially linear														No change
25	Alcohols (C12-C13), primary, linear and essentially linear														No change
26	Alcohols (C14-C18), primary, linear and essentially linear														No change
27	Alkanes (C6-C9)		P ↓ S/P								R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6
28	Iso- and cyclo-alkanes (C10-C11)		P ↓ S/P										A ↓ AC		

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
29	Iso- and cyclo-alkanes (C12+)		P ↓ S/P									A ↓ AC		↓ 15.19.6	
30	n-Alkanes (C9-C11)										FT ↓ F			15.12.3, 15.12.4, 15.19.6 ↓ 15.19.6	
31	n-Alkanes (C10+) ↓ n-Alkanes (C10-C20)			3 ↓ 2		Cont ↓ Open		T3 ↓ -	IIA ↓ -	No ↓ Yes	R ↓ O	F ↓ No	A ↓ ABC	15.19.6 ↓ 15.19.6 16.2.6 16.2.9	
32	Alkaryl polyethers (C9-C20)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes 15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19, 16.2.6	
33	Alkenoic acid, polyhydroxy ester borated	No change													
34	Alkenyl (C11+) amide		P ↓ S/P										A ↓ ABC		
35	Alkenyl (C16-C20) succinic anhydride												No ↓ ABC		
36	Alkyl acrylate/vinylpyridine copolymer in toluene		P ↓ S/P					T4 ↓ T1			R ↓ C	F ↓ FT	A ↓ ABC	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.9	
37	Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers)			1 ↓ 2		Cont ↓ Open		T1 ↓ -	IIA ↓ -		C ↓ O	T ↓ No		15.12 15.17 15.19 ↓ 15.19.6	
38	Alkylated (C4-C9) hindered phenols					Open ↓ Cont					O ↓ R	No ↓ T	BD ↓ ABC	15.19.6 16.2.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.6, 16.2.9	
39	Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)												A ↓ AC	15.19.6 ↓	
40	Alkyl benzene distillation bottoms	No change													
41	Alkylbenzene mixtures (containing at least 50% of toluene)	No change													
42	Alkylbenzenes mixtures (containing naphthalene)							- ↓ ↓	- ↓ ↓						
43	Alkyl (C3-C4) benzenes		P ↓ S/P					T4 ↓ T1				F ↓ FT	A ↓ ABC	15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
44	Alkyl (C5-C8) benzenes		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
45	Alkyl (C9+) benzenes		P ↓ S/P										AB ↓ ABC		↓ 15.19.6
46	Alkyl (C11-C17) benzene sulphonic acid		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 ↓ 15.12.3 15.12.4 15.19.6 16.2.6
47	Alkylbenzene sulphonic acid, sodium salt solution					Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.6, 16.2.9
48	Alkyl/cyclo (C4-C5) alcohols	No change													
49	Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate							- ↓	- ↓						
50	Alkyl (C12+) dimethylamine												BCD ↓ ABC		
51	Alkyl dithiocarbamate (C19-C35)												AB ↓ ABC		
52	Alkyldithiothiadiazole (C6-C24)												A ↓ AC		
53	Alkyl ester copolymer (C4-C20)												AB ↓ ABC		
54	Alkyl (C7-C9) nitrates					Open ↓ Cont					O ↓ R	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 15.20 16.6.1 16.6.2 16.6.3 ↓ 15.12 15.17 15.19 15.20 16.6.1 16.6.2 16.6.3
55	Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	No ↓ AC	No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.6, 16.2.9
56	Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	No ↓ AC		16.2.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.6 16.2.9

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
57	Alkyl(C7-C11) phenol poly(4-12) ethoxylate		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
58	Alkyl (C8-C40) phenol sulphide		P ↓ S/P										AB ↓ ABC		
59	Alkyl (C8-C9) phenylamine in aromatic solvents		P ↓ S/P					T4 ↓ T1				F ↓ FT	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
60	Alkyl (C9-C15) phenyl propoxylate		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	AB ↓ ABC		15.12.3, 15.12.4, 15.19.6
61	Alkyl (C8-C10) polyglucoside solution (65% or less)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	No ↓ AC		16.2.6 ↓ 15.12.3 15.12.4 15.19.6 16.2.6
62	Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	No ↓ AC	No ↓ Yes	16.2.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.6, 16.2.9
63	Alkyl (C12-C14) polyglucoside solution (55% or less)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	No ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.9
64	Alkyl (C12-C16) propoxyamine ethoxylate	No change													
65	Alkyl (C10-C20, saturated and unsaturated) phosphite												A ↓ ABC		16.2.9 ↓ 15.19.6 16.2.9
66	Alkyl sulphonic acid ester of phenol												AB ↓ ABC		
67	Alkyl (C18+) toluenes	No change													
68	Alkyl(C18-C28) toluenesulphonic acid						- ↓	- ↓							
69	Alkyl(C18-C28)toluenesulfonic acid, calcium salts, borated					Cont	- ↓	- ↓			C ↓	T ↓		Yes ↓	15.12 15.17 15.19 16.2.6 ↓
	Alkyl(C18-C28) toluenesulphonic acid, calcium salts, borated					Open					O	No		No	15.19.6 16.2.6
70	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, low overbase										C ↓			Yes ↓	15.12 15.17 15.19 16.2.6 ↓
	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase										R			No	15.12.3, 15.12.4, 15.19.6, 16.2.6

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								i'	i''	i'''					
71	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase					Cont ↓ Open					C ↓ O	T ↓ No		Yes ↓ No	15.12 15.17 15.19 16.2.6 ↓ 15.19.6 16.2.6
72	Allyl alcohol												A ↓ AC		
73	Allyl chloride												A ↓ AC	Yes ↓ No	
74	Aluminium chloride/Hydrogen chloride solution	No change													
75	Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)							- ↓	- ↓						
76	Aluminium sulphate solution		P ↓ S/P			Open ↓ Cont				Yes ↓ NF	O ↓ C	No ↓ T	A ↓ No	No ↓ Yes	15.19.6 ↓ 15.12 15.17 15.19
77	2-(2-Aminoethoxy) ethanol					Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.19.6 ↓ 15.12 15.17 15.19
78	Aminoethyldiethanolamine/Aminoethylethanolamine solution		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	16.2.9 ↓ 15.12 15.17 15.19, 16.2.9
79	Aminoethyl ethanolamine					Open ↓ Cont		T2 ↓ -	IIA ↓ -		O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	↓ 15.12 15.17 15.19
80	N-Aminoethylpiperazine										R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.17 15.19
81	2-Amino-2-methyl-1-propanol		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	↓ 15.12 15.17 15.19
82	Ammonia aqueous (28% or less)										R ↓ C		ABC ↓ No		15.19.6 ↓ 15.12 15.17 15.19
83	Ammonium chloride solution (less than 25%) ↓ Ammonium chloride solution (less than 25%) (*)	No change													

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
97	tert-Amyl methyl ether		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
98	Aniline											A ↓ AC	No ↓ Yes		
99	Aryl polyolefins (C11-C50)											AB ↓ ABC			
100	Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)		P ↓ S/P					T4 ↓ T3				B ↓ ABC			
101	Barium long chain (C11-C50) alkaryl sulphonate					Open ↓ Cont				O ↓ R	No ↓ T	AD ↓ ABC		15.12.3 15.19 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19 16.2.6 16.2.9	
102	Benzene and mixtures having 10% benzene or more (i)											AB ↓ ABC		15.12.1 15.17 15.19.6 16.2.9 ↓ 15.12 15.17 15.19.6, 16.2.9	
103	Benzene sulphonyl chloride	Z ↓ Y								R ↓ C		AD ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.17 15.19, 16.2.9	
104	Benzenetricarboxylic acid, trioctyl ester		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	AB ↓ ABC		15.19.6 16.2.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6	
105	Benzyl acetate		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
106	Benzyl alcohol		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
107	Benzyl chloride										T ↓ FT	AB ↓ ABC			
108	Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)	No change													
109	Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume)	No change													
110	Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume)									C ↓ R		A ↓ AC			

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								i'	i''	i'''					
111	Bis (2-ethylhexyl) terephthalate							- ↓	- ↓						
112	Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters											A ↓ AC			
113	Bromochloromethane		S/P ↓ P			Cont ↓ Open				R ↓ O	T ↓ No				
114	Butene oligomer					Open ↓ Cont		↓ T4	↓ IIB	Yes ↓ No	O ↓ R	No ↓ F	A ↓ ABC		
115	2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)							- ↓	- ↓						
116	Butyl acetate (all isomers)											A ↓ AC			
117	Butyl acrylate (all isomers)			2 ↓ 3							FT ↓ F	A ↓ ABC			
118	tert-Butyl alcohol											A ↓ AC		↓ 15.19.6	
119	Butylamine (all isomers)									R ↓ C		A ↓ AC		15.12 15.17 15.19.6 ↓ 15.12 15.17 15.19	
120	Butylbenzene (all isomers)		P ↓ S/P					T4 ↓ T2			F ↓ FT	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
121	Butyl benzyl phthalate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12 15.17 15.19.6	
122	Butyl butyrate (all isomers)		P ↓ S/P									A ↓ ABC			
123	Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture					Cont ↓ Open		↓ T3	↓ IIA	Yes ↓ No	No ↓ F	AD ↓ ABC			

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No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
124	Butylene glycol		P ↓ S/P									A ↓ AC			
125	1,2-Butylene oxide									R ↓ C	F ↓ FT			15.8.1~15.8.7 15.8.12~15.8.13 15.8.16~15.8.19 15.8.21 15.8.25.1~15.8.25.3 15.8.27 15.8.29 15.19.6 ↓ 15.8.1~15.8.7 15.8.12~15.8.13 15.8.16~15.8.19 15.8.21 15.8.25 15.8.27 15.8.29 15.12 15.17 15.19.6	
126	n-Butyl ether										FT ↓ F	A ↓ AC		15.4.6 15.12 15.19.6 ↓ 15.4.6 15.19	
127	Butyl methacrylate							T1 ↓ T3			FT ↓ F	AD ↓ ABC			
128	n-Butyl propionate											A ↓ ABC			
129	Butyraldehyde (all isomers)										FT ↓ F	A ↓ AC			
130	Butyric acid									R ↓ O		A ↓ AC			
131	gamma-Butyrolactone		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
132	Calcium alkaryl sulphonate (C11-C50)					Cont ↓ Open				C ↓ O	T ↓ No		Yes ↓ No	15.12 15.17 15.19 ↓	
133	Calcium alkyl (C10-C28) salicylate													No change	
134	Calcium hydroxide slurry	Z ↓ Y	P ↓ S/P	3 ↓ 2		Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.9	
135	Calcium hypochlorite solution (15% or less)										No ↓ T			16.2.9 ↓ 15.12.3 15.12.4 15.19.6	
136	Calcium hypochlorite solution (more than 15%)										No ↓ T			15.19 16.2.9 ↓ 15.12.3 15.12.4 15.19	

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								i'	i''	i'''					
137	Calcium lignosulphonate solutions									Yes ↓ NF			A ↓ No		
138	Calcium long-chain alkyl (C5-C10) phenate												A ↓ AC		
139	Calcium long-chain alkyl (C11-C40) phenate		P ↓ S/P										A ↓ ABC		
140	Calcium long-chain alkyl phenate sulphide (C8-C40)	No change													
141	Calcium long-chain alkyl salicylate (C13+)		P ↓ S/P										AB ↓ ABC		15.19.6 16.2.6 ↓ 15.19.6 16.2.6, 16.2.9
142	Calcium long-chain alkyl (C18-C28) salicylate					Cont ↓ Open				C ↓ O	T ↓ No		Yes ↓ No		15.12 15.17 15.19 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.9
143	Calcium nitrate/Magnesium nitrate/Potassium chloride solution		P ↓ S/P							Yes ↓ NF			A ↓ No		
144	Calcium nitrate solution (50% or less)		↓ S	↓ 3	↓ 2G	↓ Open	↓ No	↓ -	↓ -	↓ NF	↓ O	↓ No	↓ No	↓ No	↓ 16.2.9
145	Camelina oil							↓ -	↓ -						15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.7
146	epsilon-Caprolactam (molten or aqueous solutions)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		↓ 15.12.3, 15.12.4, 15.19.6
147	Carbolic oil												A ↓ ABC	No ↓ Yes	15.12 15.19.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.9
148	Carbon disulphide			2 ↓ 1			↓ Pad + Inert								15.3 15.12 15.19 ↓ 15.3 15.12 15.17 15.18 15.19
149	Carbon tetrachloride													Yes ↓ No	

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								i'	i''	i'''					
163	2- or 3-Chloropropionic acid			3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC		15.11.2~15.11.4 15.11.6~15.11.8 16.2.9 ↓ 15.11.2~15.11.4 15.11.6~15.11.8, 15.12.3, 15.12.4, 15.19, 16.2.9
164	Chlorosulphonic acid														15.11.2~15.11.8 15.12 15.16.2 15.19 ↓ 15.11.2~15.11.8 15.12 15.16.2, 15.17, 15.18, 15.19
165	m-Chlorotoluene												AB ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19
166	o-Chlorotoluene		S/P ↓ P									FT ↓ F	AB ↓ ABC		
167	p-Chlorotoluene		S/P ↓ P									FT ↓ F	AB ↓ ABC		
168	Chlorotoluenes (mixed isomers)		S/P ↓ P									FT ↓ F	AB ↓ ABC		
169	Choline chloride solutions												A ↓ AC		
170	Citric acid (70% or less)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.12, 15.17, 15.19 ↓ 15.12.3, 15.12.4, 15.19
171	Coal tar										R ↓ C	No ↓ T			15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19.6 16.2.6 16.2.9
172	Coal tar naphtha solvent										R ↓ C		AD ↓ ABC		15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19.6 16.2.9
173	Coal tar pitch (molten) ↓ Coal tar pitch (molten) (*)										R ↓ C	No ↓ T	BD ↓ ABCD		15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19.6 16.2.6 16.2.9
174	Cocoa butter														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9
175	Coconut oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
176	Coconut oil fatty acid													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
177	Coconut oil fatty acid methyl ester											A ↓ ABC			
178	Copper salt of long chain (C17+) alkanolic acid											A ↓ ABC			
179	Corn Oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
180	Cotton seed oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
181	Creosote (coal tar)			2 ↓ 1						R ↓ C				15.12.3 15.12.4 15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19.6 16.2.6 16.2.9	
182	Cresols (all isomers)			2 ↓ 1		Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12 15.18 15.19, 16.2.9	
183	Cresol/Phenol/Xylenol mixture														
184	Cresylic acid, dephenolized					Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12 15.17 15.19	
185	Cresylic acid, sodium salt solution					Open ↓ Cont				Yes ↓ No	O ↓ C	No ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
186	Crotonaldehyde		Y ↓ X	2 ↓ 1	2G ↓ 1G					R ↓ C		A ↓ AC		15.12 15.17 15.19.6 ↓ 15.12 15.17 15.18 15.19	
187	1,5,9-Cyclododecatriene			1 ↓ 2		Cont ↓ Open				R ↓ O	T ↓ No	A ↓ AC		15.13 15.19 16.6.1~16.6.2 ↓ 15.13 15.19.6, 16.6.1~16.6.2	
188	Cycloheptane		P ↓ S/P									A ↓ AC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
189	Cyclohexane		P ↓ S/P									A ↓ AC			
190	Cyclohexane-1,2-dicarboxylic acid, diisononyl ester							↓ -	↓ -						
191	Cyclohexane oxidation products, sodium salts solution							↓ -	↓ -						
192	Cyclohexanol											AB ↓ ABC			
193	Cyclohexanone										FT ↓ F	A ↓ AC			
194	Cyclohexanone, Cyclohexanol mixture										FT ↓ F	A ↓ AC			
195	Cyclohexyl acetate		P ↓ S/P					T4 ↓ T2			F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
196	Cyclohexylamine									R ↓ C			No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
197	1,3-Cyclopentadiene dimer (molten)		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19, 16.2.6, 16.2.9	
198	Cyclopentane											A ↓ AC			
199	Cyclopentene		P ↓ S/P	2 ↓ 3								A ↓ AC			
200	p-Cymene		P ↓ S/P									A ↓ AC			
201	Decahydronaphthalene		P ↓ S/P								F ↓ FT	AB ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
202	Decanoic acid		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9
203	Decene												A ↓ AC		
204	Decyl acrylate					Open ↓ Cont		T3 ↓ -	IIA ↓ -		O ↓ R	No ↓ T	ACD ↓ ABC		15.13 15.19 16.6.1~16.6.2 ↓ 15.12.3, 15.12.4, 15.13, 15.19, 16.6.1, 16.6.2
205	Decyl alcohol (all isomers)												A ↓ AC		
206	Decyl/Dodecyl/Tetradecyl alcohol mixture	No change													
207	Decyloxytetrahydrothiophene dioxide					Cont ↓ Open					R ↓ O	T ↓ No	A ↓ AC		
208	Diacetone alcohol		P ↓ S/P									F ↓ FT	A ↓ AC		↓ 15.12.3, 15.12.4, 15.19.6
209	Dialkyl (C8-C9) diphenylamines												AB ↓ ABC		
210	Dialkyl (C7-C13) phthalates		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	AB ↓ ABC		15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19.6, 16.2.6
211	Dialkyl (C9-C10) phthalates	No change													
212	Dialkyl thiophosphates sodium salts solution	No change													
213	2,6-Diaminohexanoic acid phosphonate mixed salts solution							↓ -	↓ -						
214	Dibromomethane					Cont ↓ Open					R ↓ O	T ↓ No			15.12.3 15.19 ↓ 15.19.6
215	Dibutylamine			3 ↓ 2							R ↓ C		ACD ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19
216	Dibutyl hydrogen phosphonate		P ↓ S/P	3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
217	2,6-Di-tert-butylphenol		P ↓ S/P	1 ↓ 2								ABCD ↓ ABC		15.19 16.2.9 ↓ 15.19.6, 16.2.9	
218	Dibutyl phthalate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
219	Dibutyl terephthalate	No change													
220	Dichlorobenzene (all isomers)									R ↓ C				15.19.6 ↓ 15.12, 15.17, 15.19.6	
221	3,4-Dichloro-1-butene									C ↓ R			Yes ↓ No	15.12.3 15.17 15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
222	1,1-Dichloroethane										FT ↓ F	A ↓ AC	Yes ↓ No		
223	Dichloroethyl ether									R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.18, 15.19	
224	1,6-Dichlorohexane		S/P ↓ P			Cont ↓ Open				R ↓ O	T ↓ No	AB ↓ ABC			
225	2,2-Dichloroisopropyl ether ↓ 2,2'-Dichloroisopropyl ether											ACD ↓ ABC		15.12 15.17 15.19 ↓ 15.12.3, 15.12.4, 15.19	
226	Dichloromethane								Yes ↓ No	R ↓ C	T ↓ FT	No ↓ ABC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
227	2,4-Dichlorophenol									R ↓ C		A ↓ AD	No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.16.2, 15.17, 15.19, 16.2.6, 16.2.9	
228	2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
229	2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
230	2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution					Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.6, 16.2.9
231	1,1-Dichloropropane							T4 ↓ T1				FT ↓ F	AB ↓ ABC		15.12 15.19.6 ↓ 15.19.6
232	1,2-Dichloropropane			2 ↓ 3									AB ↓ ABC		15.12 15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
233	1,3-Dichloropropene												AB ↓ ABC		15.12 15.17~15.19 ↓ 15.12, 15.17, 15.19
234	Dichloropropene/Dichloropropane mixtures													Yes ↓ No	15.12 15.17~15.19 ↓ 15.12, 15.17, 15.19
235	2,2-Dichloropropionic acid			3 ↓ 2						R ↓ C	No ↓ T	A ↓ AD	No ↓ Yes	15.11.2 15.11.4 15.11.6 15.11.7 15.11.8 15.19.6 16.2.9 ↓ 15.11.2 15.11.4 15.11.6 15.11.7 15.11.8, 15.12, 15.16.2, 15.17, 15.19, 16.2.9	
236	Dicyclopentadiene, Resin Grade, 81-89%	No change													
237	Diethanolamine					Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC		16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.6, 16.2.9
238	Diethylamine									R ↓ C			A ↓ AC		15.12 15.19.6 ↓ 15.12, 15.17, 15.19
239	Diethylaminoethanol														15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
240	2,6-Diethylaniline			3 ↓ 2		Open ↓ Cont					O ↓ R	No ↓ T	BCD ↓ ABC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9
241	Diethylbenzene		P ↓ S/P									F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
242	Diethylene glycol		↓ S/P	↓ 3	↓ 2G	↓ Cont	↓ No	↓	↓	↓	↓	↓	↓	↓ No	↓ 15.12.3, 15.12.4, 15.19.6

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
243	Diethylene glycol dibutyl ether											A ↓ AC			
244	Diethylene glycol diethyl ether		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		↓ 15.12.3, 15.12.4, 15.19.6	
245	Diethylene glycol phthalate		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6	
246	Diethylenetriamine					Open ↓ Cont		T2 ↓ -	IIA ↓ -	O ↓ C	No ↓ T	A ↓ ABC		15.19.6 ↓ 15.12, 15.17, 15.19	
247	Diethylenetriaminepentaacetic acid, pentasodium salt solution											A ↓ AC			
248	Diethyl ether ↓ Diethyl ether (*)									C ↓ R	FT ↓ F	A ↓ AC	Yes ↓ No		
249	Di-(2-ethylhexyl) adipate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
250	Di-(2-ethylhexyl) phosphoric acid					Open ↓ Cont				O ↓ R	No ↓ T			15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
251	Diethyl phthalate		P ↓ S/P									A ↓ AC			
252	Diethyl sulphate											A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
253	Diglycidyl ether of bisphenol A		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9	
254	Diglycidyl ether of bisphenol F		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19.6, 16.2.6	
255	Diheptyl phthalate		P ↓ S/P									AB ↓ ABC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
256	Di-n-hexyl adipate		P ↓ S/P									A ↓ AC			
257	Dihexyl phthalate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
258	Diisobutylamine									R ↓ C		ACD ↓ ABC		15.12.3 15.19.6 ↓ 15.12.3, 15.12.4, 15.19	
259	Diisobutylene											A ↓ AC			
260	Diisobutyl ketone		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
261	Diisobutyl phthalate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
262	Diisononyl adipate		P ↓ S/P									A ↓ AC			
263	Diisooctyl phthalate		P ↓ S/P									AB ↓ ABC			
264	Diisopropanolamine		S/P ↓ P					T2 ↓ -	IIA ↓ -			A ↓ AC			
265	Diisopropylamine			2 ↓ 3						C ↓ R		A ↓ AC	Yes ↓ No	15.12 15.19 ↓ 15.12.3, 15.12.4, 15.17, 15.19.6	
266	Diisopropylbenzene (all isomers)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
267	Diisopropyl-naphthalene		P ↓ S/P									A ↓ AC			
268	N,N-Dimethylacetamide									C ↓ R		ACD ↓ AC		15.12 15.17 ↓ 15.12.3, 15.12.4, 15.19.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
269	N,N-Dimethylacetamide solution (40% or less)									Yes ↓ NF		B ↓ No		15.12.1 15.17 ↓ 15.12.3, 15.12.4, 15.19.6	
270	Dimethyl adipate	X ↓ Y										A ↓ ABC			
271	Dimethylamine solution (45% or less)											ACD ↓ AC		15.12 15.19.6 ↓ 15.12.3, 15.12.4, 15.19	
272	Dimethylamine solution (greater than 45% but not greater than 55%)			2 ↓ 3						C ↓ R		ACD ↓ AC	Yes ↓ No	15.12 15.17 15.19 ↓ 15.12.3, 15.12.4, 15.19	
273	Dimethylamine solution (greater than 55% but not greater than 65%)			2 ↓ 3						C ↓ R		ACD ↓ AC	Yes ↓ No	15.12 15.14 15.17 15.19 ↓ 15.12.3, 15.12.4, 15.14, 15.19	
274	N,N-Dimethylcyclohexylamine									R ↓ C			No ↓ Yes	15.12 15.17 15.19.6 ↓ 15.12 15.17 15.19	
275	Dimethyl disulphide											B ↓ ABC			
276	N,N-Dimethyldodecylamine	X ↓ Y		1 ↓ 2		Open ↓ Cont				O ↓ C	No ↓ T	B ↓ ABC	No ↓ Yes	15.19 ↓ 15.12 15.17 15.19	
277	Dimethylethanolamine											AD ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
278	Dimethylformamide									R ↓ C		AD ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
279	Dimethyl glutarate		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
280	Dimethyl hydrogen phosphite												Yes ↓ No	15.12.1 15.19.6 ↓ 15.19.6	
281	Dimethyl octanoic acid		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		16.2.6 16.2.9 15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
282	Dimethyl phthalate		P ↓ S/P									A ↓ AC			
283	Dimethylpolysiloxane			3 ↓ 2								AB ↓ ABC			
284	2,2-Dimethylpropane-1,3-diol (molten or solution)											AB ↓ ABC			
285	Dimethyl succinate			3 ↓ 2								A ↓ AC		16.2.9 ↓ 15.19.6, 16.2.9	
286	Dinitrotoluene (molten)											A ↓ AC			
287	Dinonyl phthalate		P ↓ S/P									A ↓ AC			
288	Diocetyl phthalate	X ↓ Y	P ↓ S/P									AB ↓ ABC			
289	1,4-Dioxane			2 ↓ 3								A ↓ AC		15.12 15.19 16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.9	
290	Dipentene		P ↓ S/P	3 ↓ 2						R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
291	Diphenyl		P ↓ S/P									B ↓ ABC			
292	Diphenylamine (molten)		P ↓ S/P									BD ↓ ABC			
293	Diphenylamine, reaction product with 2,2,4-Trimethylpentene			1 ↓ 2								A ↓ AC			
294	Diphenylamines, alkylated		P ↓ S/P									A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.19 16.2.6 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
295	Diphenyl/Diphenyl ether mixtures		P ↓ S/P									B ↓ ABC			
296	Diphenyl ether											A ↓ AC			
297	Diphenyl ether/Diphenyl phenyl ether mixture											A ↓ AC			
298	Diphenylmethane diisocyanate							↓ -	↓ -			ABCD(b) ↓ AB(b)D	No ↓ Yes	15.12 15.16.2 15.17 15.19.6 16.2.6 16.2.9 ↓ 15.12 15.16.2 15.17 15.19 16.2.6 16.2.9	
299	Diphenylol propane-epichlorohydrin resins		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9	
300	Di-n-propylamine									R ↓ C		A ↓ AC	No ↓ Yes	15.12.3 15.19.6 ↓ 15.12.3, 15.12.4, 15.17, 15.19.6	
301	Dipropylene glycol											A ↓ AC			
302	Dithiocarbamate ester (C7-C35)		P ↓ S/P									AD ↓ ABC		15.19.6 16.2.9 ↓ 15.19.6	
303	Ditridecyl adipate					Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6	
304	Ditridecyl phthalate											A ↓ AC			
305	Diundecyl phthalate		P ↓ S/P									AB ↓ ABC			
306	Dodecane (all isomers)		P ↓ S/P									AB ↓ ABC			
307	tert-Dodecanethiol							↓ -	↓ -	C ↓ R			Yes ↓ No	15.12 15.17 15.19 ↓ 15.12.3, 15.12.4, 15.19.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
308	1-Dodecene			2 ↓ 3				↓ -	↓ -						
309	Dodecene (all isomers)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
310	Dodecyl alcohol		P ↓ S/P									A ↓ AC			
311	n-Dodecyl mercaptan							↓ -	↓ -						
312	Dodecylamine/Tetradecylamine mixture									R ↓ C		AD ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
313	Dodecylbenzene	Z ↓ Y	P ↓ S/P	3 ↓ 2		Open ↓ Cont				O ↓ R	No ↓ T	AB ↓ ABC		↓ 15.12.3, 15.12.4, 15.19.6	
314	Dodecyl diphenyl ether disulphonate solution					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19, 16.2.6	
315	Dodecyl hydroxypropyl sulphide											A ↓ AC			
316	Dodecyl methacrylate	Z ↓ Y										A ↓ AC		15.13 ↓ 15.13, 15.19.6	
317	Dodecyl/Octadecyl methacrylate mixture											A ↓ AC			
318	Dodecyl/Pentadecyl methacrylate mixture											AD ↓ ABC			
319	Dodecyl phenol		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19, 16.2.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
320	Dodecyl Xylene		P ↓ S/P									AB ↓ ABC			
321	Drilling brines (containing zinc chloride)		P ↓ S/P					- ↓	- ↓	Yes ↓ NF			No ↓ Yes		
322	Drilling brines (containing calcium bromide)		P ↓ S/P					- ↓	- ↓	Yes ↓ NF		A ↓ No		↓ 15.19.6	
323	Epichlorohydrin											A ↓ AC			
324	Ethanolamine					Open ↓ Cont				O ↓ C		A ↓ AC	No ↓ Yes	16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
325	2-Ethoxyethyl acetate		P ↓ S/P							R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
326	Ethoxylated long chain (C16+) alkyloxyalkylamine					Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
327	Ethoxylated tallow amine (>95%)													No change	
328	Ethyl acetate		P ↓ S/P									AB ↓ ABC		↓ 15.19.6	
329	Ethyl acetoacetate		P ↓ S/P									A ↓ AC			
330	Ethyl acrylate									R ↓ C		A ↓ AC	Yes ↓ No	15.13 15.19.6 16.6.1-16.6.2 ↓ 15.12, 15.13, 15.17, 15.19, 16.6.1, 16.6.2	
331	Ethylamine ↓ Ethylamine (*)										FT ↓ F	CD ↓ AC	Yes ↓ No	15.12 15.14 15.19.6 ↓ 15.12.3.2, 15.14 15.19	
332	Ethylamine solutions (72% or less)			2 ↓ 3							FT ↓ F		Yes ↓ No	15.12 15.14 15.17 15.19 ↓ 15.12.3.2, 15.14 15.19	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
333	Ethyl amyl ketone		P ↓ S/P	3 ↓ 2							F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
334	Ethylbenzene		P ↓ S/P							R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
335	Ethyl tert-butyl ether		P ↓ S/P	3 ↓ 2							F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
336	Ethyl butyrate		P ↓ S/P	3 ↓ 2				T4 ↓ T2			F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
337	Ethylcyclohexane		P ↓ S/P					T4 ↓ T3				A ↓ AC			
338	N-Ethylcyclohexylamine									R ↓ C		A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19	
339	S-Ethyl dipropylthiocarbamate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.9	
340	Ethylene carbonate		↓ S/P	↓ 3	↓ 2G	↓ Cont	↓ No	↓	↓	↓ Yes	↓ R	↓ T	↓ AC	↓ No	15.12.3, 15.12.4, 15.19.6, 16.2.9
341	Ethylene chlorohydrin			2 ↓ 1								AD ↓ AC		15.12 15.17 15.19 ↓ 15.12 15.17 15.18 15.19	
342	Ethylene cyanohydrin			3 ↓ 2		Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
343	Ethylenediamine									R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
344	Ethylenediaminetetraacetic acid, tetrasodium salt solution					Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
345	Ethylene dibromide												Yes ↓ No	15.12 15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
346	Ethylene dichloride			2 ↓ 3							R ↓ C		AB ↓ ABC		15.19 ↓ 15.12, 15.17, 15.19
347	Ethylene glycol	Y ↓ Z	P ↓ S/P										A ↓ AC		
348	Ethylene glycol acetate		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19
349	Ethylene glycol butyl ether acetate		P ↓ S/P										A ↓ AC		
350	Ethylene glycol diacetate		P ↓ S/P	3 ↓ 2									A ↓ AC		
351	Ethylene glycol methyl ether acetate		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6
352	Ethylene glycol monoalkyl ethers										R ↓ C	F ↓ FT	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19, 16.2.9
353	Ethylene glycol phenyl ether		P ↓ S/P										A ↓ AC		
354	Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9
355	Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture														
356	Ethylene glycol (>85%)/sodium alkyl carboxylates mixture														No change
357	Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% by mass													No ↓ Yes	15.8 15.12 15.14 15.19 ↓ 15.8 15.12 15.14 15.17 15.19
358	Ethylene-vinyl acetate copolymer (emulsion)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
372	Fatty acids, (C8-C10)										R ↓ C			No ↓ Yes	15.12.3 15.12.4 15.19 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.6, 16.2.9
373	Fatty acids, (C12+)					Cont ↓ Open					R ↓ O	T ↓ No			15.12.3 15.12.4 15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9
374	Fatty acids, (C16+)	No change													
375	Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester		P ↓ S/P										AB ↓ ABC		
376	Ferric chloride solutions					Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.11 15.19.6 16.2.9 ↓ 15.11, 15.12, 15.17, 15.19 16.2.9
377	Ferric nitrate/Nitric acid solution										R ↓ C				15.11 15.19 ↓ 15.11, 15.12, 15.17, 15.19
378	Fish oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.7, 16.2.9
379	Fish silage protein concentrate (containing 4% or less formic acid)								- ↓	- ↓					
380	Fish protein concentrate (containing 4% or less formic acid)	No change													
381	Fluorosilicic acid solution (20-30%)			2 ↓ 3					- ↓	- ↓					
382	Formaldehyde solutions (45% or less)										R ↓ C		A ↓ AC		15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
383	Formamide		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC		15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.9
384	Formic acid (85% or less acid)										R ↓ C		A ↓ AC		15.11.2-15.11.4 15.11.6-15.11.8 15.12.3-15.12.4 15.19.6 16.2.9 ↓ 15.11.2-15.11.4 15.11.6-15.11.8 15.12.3-15.12.4 15.17 15.19 16.2.9
385	Formic acid (over 85%)										R ↓ C		A ↓ AC		15.11.2-15.11.4 15.11.6-15.11.8 15.12.3-15.12.4 15.19.6 16.2.9 ↓ 15.11.2-15.11.4 15.11.6-15.11.8 15.12.3-15.12.4 15.17 15.19 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
386	Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)														
387	Furfural									R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
388	Furfuryl alcohol		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
389	Glucitol/glycerol blend propoxylated (containing less than 10% amines)	No change													
390	Glucitol/glycerol blend propoxylated (containing 10% or more amines)							- ↓	- ↓						
391	Glutaraldehyde solutions (50% or less)					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
392	Glycerine		↓ S	↓ 3	↓ 2G	↓ Open	↓ No	↓ ↓	↓ ↓	↓ Yes	↓ O	↓ No	↓ AC	↓ No	↓ 16.2.9
393	Glycerol monooleate		P ↓ S/P										A ↓ AC		
394	Glycerol propoxylated	No change													
395	Glycerol, propoxylated and ethoxylated	No change													
396	Glycerol/sucrose blend propoxylated and ethoxylated	No change													
397	Glyceryl triacetate		P ↓ S/P										AB ↓ ABC	↓ 15.19.6	
398	Glycidyl ester of C10 trialkylacetic acid		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3 15.12.4 15.19.6	
399	Glycine, sodium salt solution		P ↓ S/P						Yes ↓ NF			A ↓ No			
400	Glycolic acid solution (70% or less)					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.17, 15.19, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
401	Glyoxal solution (40% or less)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
402	Glyoxylic acid solution (50% or less)					Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.11.2 15.11.3 15.11.4 15.11.6~15.11.8 15.19.6 16.2.9 16.6.1~16.6.3 ↓ 15.11.2 15.11.3 15.11.4 15.11.6~15.11.8 15.12 15.17 15.19 16.2.9 16.6.1~16.6.3
403	Glyphosate solution (not containing surfactant)		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
404	Grape Seed Oil							- ↓	- ↓						15.19.6 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.7
405	Groundnut oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9
406	Heptane (all isomers)												A ↓ AC		15.19.6 16.2.9 ↓ 15.19.6
407	n-Heptanoic acid		P ↓ S/P			Open ↓ Cont					O ↓ R		AB ↓ ABC		↓ 15.19.6, 15.17
408	Heptanol (all isomers) (d)		P ↓ S/P								F ↓ FT		A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
409	Heptene (all isomers)			3 ↓ 2				T4 ↓ T3					A ↓ ABC		
410	Heptyl acetate		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
411	1-Hexadecylnaphthalene / 1,4-bis(hexadecyl)naphthalene mixture		P ↓ S/P										AB ↓ ABC		
412	Hexamethylenediamine (molten)			2 ↓ 3											15.12 15.17 15.18 15.19 16.2.9 ↓ 15.12 15.17 15.19 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
413	Hexamethylenediamine adipate (50% in water)											A ↓ AC			
414	Hexamethylenediamine solution										R ↓ C	A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
415	Hexamethylene diisocyanate				1G ↓ 2G										
416	Hexamethylene glycol		P ↓ S/P									A ↓ AC			
417	Hexamethyleneimine							T4 ↓ T2						15.19.6 ↓ 15.12.3, 15.12.4, 15.19	
418	Hexamethylenetetramine solutions		↓ S	↓ 3	↓ 2G	↓ Open	↓ No	↓ ↓	↓ ↓	↓ Yes	↓ O	↓ No	↓ AC	↓ No	↓ 15.19.6
419	Hexane (all isomers)		P ↓ S/P								R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6
420	1,6-Hexanediol, distillation overheads		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		
421	Hexanoic acid		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19
422	Hexanol		P ↓ S/P	3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19
423	Hexene (all isomers)		P ↓ S/P										A ↓ AC		
424	Hexyl acetate		P ↓ S/P										A ↓ AC		
425	Hexylene glycol		↓ S	↓ 3	↓ 2G	↓ Cont	↓ No	↓ ↓	↓ ↓	↓ Yes	↓ C	↓ T	↓ AC	↓ Yes	↓ 15.12, 15.17, 15.19

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
426	Hydrocarbon wax													No change	
427	Hydrochloric acid ↓ Hydrochloric acid (*)										R ↓ C			15.11 ↓ 15.11 15.12 15.17 15.19	
428	Hydrogen peroxide solutions (over 60% but not over 70% by mass)										C ↓ R	No ↓ T		15.5.1 15.12.3 15.12.4 15.19.6 ↓ 15.5.1 15.12.3 15.12.4 15.19.6	
429	Hydrogen peroxide solutions (over 8% but not over 60% by mass)										C ↓ R	No ↓ T		15.5.2 15.18 15.19.6 ↓ 15.5.2 15.12.3 15.12.4 15.18 15.19.6	
430	2-Hydroxyethyl acrylate											A ↓ AC	No ↓ Yes	15.12~15.13 15.19.6 16.6.1~16.6.2 ↓ 15.12~15.13 15.17 15.19 16.6.1~16.6.2	
431	N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	15.19.6 ↓ 15.12, 15.17, 15.19.6	
432	2-Hydroxy-4-(methylthio)butanoic acid		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	↓ 15.12, 15.17, 15.19
433	Illipe oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
434	Isoamyl alcohol		P ↓ S/P								F ↓ FT	AB ↓ ABC		↓ 15.12.3, 15.12.4, 15.19.6	
435	Isobutyl alcohol		P ↓ S/P									AB ↓ ABC		↓ 15.19.6	
436	Isobutyl formate							T4 ↓ T2				AB ↓ ABC		↓ 15.19.6	
437	Isobutyl methacrylate		P ↓ S/P					T2 ↓ T1				A ↓ ABC		15.12 15.13 15.17 16.6.1~16.6.2 ↓ 15.13, 15.19.6, 16.6.1, 16.6.2	
438	Isophorone										No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
439	Isophoronediamine										R ↓ C		A ↓ AC	No ↓ Yes	16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
440	Isophorone diisocyanate	X ↓ Y												No ↓ Yes	15.12 15.16.2 15.17 15.19.6 ↓ 15.12 15.16.2 15.17 15.19
441	Isoprene			3 ↓ 2						R ↓ C	F ↓ FT		B ↓ ABC		15.13~15.14 15.19.6 16.6.1~16.6.2 ↓ 15.12, 15.13~15.14, 15.17, 15.19.6 16.6.1~16.6.2
442	Isopropanolamine					Open ↓ Cont				O ↓ R	FT ↓ No		A ↓ AC		
443	Isopropyl acetate												AB ↓ ABC		↓ 15.19.6
444	Isopropylamine			2 ↓ 3									CD ↓ AC	Yes ↓ No	15.12 15.14 15.19 ↓ 15.12.3.2, 15.14, 15.19
445	Isopropylamine (70% or less) solution			2 ↓ 3									CD ↓ AC	Yes ↓ No	15.12 15.19.6 16.2.9 ↓ 15.12.3.2, 15.19
446	Isopropylcyclohexane		P ↓ S/P						T4 ↓ T3				A ↓ AC		
447	Isopropyl ether												A ↓ AC		15.4.6 15.13.3 15.19.6 ↓ 15.4.6 15.13 15.19.6 16.6.1, 16.6.2
448	Jatropha oil														15.19.6 16.2.6 ↓ 15.19.6 16.2.6 16.2.7
449	Lactic acid		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T		A ↓ AC	No ↓ Yes	↓ 15.12, 15.17, 15.19
450	Lactonitrile solution (80% or less)			2 ↓ 1						Yes ↓ NF			ACD ↓ No		
451	Lard														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
452	Latex, ammonia (1% or less)- inhibited			3 ↓ 2								A ↓ AC			
453	Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber		P ↓ S/P									A ↓ AC			
454	Lauric acid		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	
455	Ligninsulphonic acid, magnesium salt solution													No change	
456	Ligninsulphonic acid, sodium salt solution											A ↓ AC			
457	Linseed oil													No change	
458	Liquid chemical wastes							- ↓	- ↓			A ↓ AC	Yes ↓ No	15.12 15.19.6 20.5.1 ↓ 15.12, 15.17, 15.19, 20.5.1, 20.7	
459	Long-chain alkaryl polyether (C11-C20)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	AB ↓ ABC		16.2.6 16.2.9 15.19.6 ↓ 15.12.3, 15.12.4, 16.2.6 16.2.9 15.19.6	
460	Long-chain alkaryl sulphonic acid (C16-C60)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9	
461	Long-chain alkylphenate/Phenol sulphide mixture		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	
462	Long-chain alkylphenol (C14-C18)							- ↓	- ↓						
463	Long-chain alkylphenol (C18-C30)							- ↓	- ↓						
464	L-Lysine solution (60% or less)											A ↓ AC			
465	Magnesium chloride solution											A ↓ AC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
466	Magnesium hydroxide slurry		↓ S	↓ 3	↓ 2G	↓ Open	↓ No	↓ -	↓ -	↓ NF	↓ O	↓ No	↓ No	↓ No	↓ 16.2.9
467	Magnesium long-chain alkaryl sulphonate (C11-C50)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9
468	Magnesium long-chain alkyl salicylate (C11+)		P ↓ S/P										AB ↓ ABC		
469	Maleic anhydride										R ↓ C	No ↓ T		No ↓ Yes	16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
470	Maleic anhydride-sodium allylsulphonate copolymer solution							↓	↓						
471	Mango kernel oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9
472	Mercaptobenzothiazol, sodium salt solution	No change													
473	Mesityl oxide												A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
474	Metam sodium solution													Yes ↓ No	15.12 15.17 15.19 ↓ 15.12.3, 15.12.4, 15.19
475	Methacrylic acid										R ↓ C		A ↓ AC		15.13 15.19.6 16.2.9 16.6.1 ↓ 15.13, 15.12.3, 15.12.4, 15.19, 16.2.9, 16.6.1
476	Methacrylic acid - alkoxy poly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)												AC ↓ No		
477	Methacrylic resin in ethylene dichloride			2 ↓ 3							R ↓ C		AB ↓ ABC		15.19 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
478	Methacrylonitrile												A ↓ AC		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
479	3-Methoxy-1-butanol		P ↓ S/P									A ↓ AC		↓ 15.19.6	
480	3-Methoxybutyl acetate		P ↓ S/P									AB ↓ ABC			
481	N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19 16.2.6 ↓ 15.12.3, 15.12.4, 15.19, 16.2.6	
482	Methyl acetate											A ↓ AC		↓ 15.19.6	
483	Methyl acetoacetate		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		↓ 15.12.3, 15.12.4, 15.19.6	
484	Methyl acrylate			2 ↓ 3						R ↓ C		A ↓ AC	Yes ↓ No	15.13 15.19.6 16.6.1-16.6.2 ↓ 15.12, 15.13, 15.17, 15.19	
485	Methyl alcohol ↓ Methyl alcohol (*)		P ↓ S/P							R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.1, 15.12.2, 15.12.3.2, 15.12.3.3, 15.12.4, 15.17, 15.19	
486	Methylamine solutions (42% or less)											ACD ↓ AC			
487	Methylamyl acetate											A ↓ ABC			
488	Methylamyl alcohol		P ↓ S/P								F ↓ FT	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
489	Methyl amyl ketone		P ↓ S/P									A ↓ ABC			
490	N-Methylaniline	No change													
491	alpha-Methylbenzyl alcohol with acetophenone (15% or less)	No change													
492	Methylbutenol		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o	
								i'	i''	i'''						
506	2-Methyl-2-hydroxy-3-butyne											FT ↓ F	ABD ↓ AC			
507	Methyl isobutyl ketone		P ↓ S/P									F ↓ FT	AB ↓ ABC		↓ 15.12.3 15.12.4 15.19.6	
508	Methyl methacrylate			2 ↓ 3								FT ↓ F	A ↓ AC		15.13 15.19.6 16.6.1~16.6.2 ↓ 15.13, 15.19.6	
509	3-Methyl-3-methoxybutanol		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		↓ 15.12.3 15.12.4 15.19.6		
510	Methyl naphthalene (molten)										No ↓ T	AD ↓ ABC		15.19.6 ↓ 15.12.3 15.12.4 15.19.6		
511	N-Methylglucamine solution (70% or less)		↓ S	↓ 3	↓ 2G	↓ Cont	↓ No	↓ T1	↓ IIA	↓ No	↓ R	↓ C	↓ T	↓ AC	↓ Yes	↓ 15.12, 15.17, 15.19, 16.2.9
512	2-Methyl-1,3-propanediol											A ↓ AC				
513	2-Methylpyridine			2 ↓ 3								A ↓ AC		15.12.3 15.19.6 ↓ 15.12.3.2, 15.19		
514	3-Methylpyridine			2 ↓ 3							F ↓ FT			15.12.3 15.19 ↓ 15.12.3 15.12.4 15.19		
515	4-Methylpyridine			2 ↓ 3								A ↓ AC		15.12.3 15.19 16.2.9 ↓ 15.12.3, 15.12.4, 15.19, 16.2.9		
516	N-Methyl-2-pyrrolidone		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6		
517	Methyl propyl ketone		↓ S	↓ 3	↓ 2G	↓ Cont	↓ No	↓ T1	↓ IIA	↓ No	↓ R	↓ FT	↓ ABC	↓ No	↓ 15.12.3 15.12.4 15.19.6	
518	Methyl salicylate		P ↓ S/P			Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
519	alpha-Methylstyrene										R ↓ C				15.13 15.19.6 16.6.1~16.6.2 ↓ 15.12, 15.13, 15.17, 15.19.6, 16.6.1, 16.6.2
520	3-(methylthio)propionaldehyde										C ↓ R	BC ↓ ABC	Yes ↓ No		15.12 15.17 15.19 ↓ 15.12 15.17 15.19,6
521	Molybdenum polysulphide long chain alkyl dithiocarbamide complex										C ↓ R		Yes ↓ No		15.12 15.17 15.19 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6 16.2.9
522	Morpholine										R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3 15.12.4 15.19
523	Motor fuel anti-knock compounds (containing lead alkyls) ↓ Motor fuel anti-knock compound (containing lead alkyls)						No ↓ Inert								15.6 15.12 15.18~15.19 ↓ 15.6 15.12, 15.17 15.18~15.19
524	Myrcene		P ↓ S/P								F ↓ FT	A ↓ AC			15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9
525	Naphthalene (molten)										R ↓ C	No ↓ T	AD ↓ ABC		15.19.6 16.2.9 ↓ 15.12 15.17 15.19.6 16.2.9
526	Naphthalene crude (molten)								- ↓	- ↓					
527	Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution		P ↓ S/P										A ↓ AC		
528	Neodecanoic acid		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
529	Nitrating acid (mixture of sulphuric and nitric acids)			2 ↓ 1	2G ↓ 1G										15.11 15.16.2 15.17 15.19 ↓ 15.11, 15.12, 15.16.2, 15.17, 15.18, 15.19
530	Nitric acid (70% and over)														15.11 15.19 ↓ 15.11, 15.12, 15.16.2, 15.17, 15.19
531	Nitric acid (less than 70%)										R ↓ C				15.11 15.19 ↓ 15.11, 15.12, 15.17, 15.19

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
532	Nitrilotriacetic acid, trisodium salt solution		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6
533	Nitrobenzene							T1 ↓ -	IIA ↓ -				AD ↓ ABC		15.12 15.17~15.19 16.2.9 ↓ 15.12 15.17 15.19 16.2.9
534	Nitroethane												A(f) ↓ ABC(f)		15.19.6 16.6.1~16.6.2 16.6.4 ↓ 15.12.3, 15.12.4, 15.19.6 16.6.1~16.6.2 16.6.4
535	Nitroethane(80%)/ Nitropropane(20%)												A(f) ↓ ABC(f)		15.19.6 16.6.1~16.6.3 ↓ 15.12.3, 15.12.4, 15.19.6 16.6.1~16.6.3
536	Nitroethane, 1-Nitropropane (each 15% or more) mixture										F ↓ FT		A ↓ ABC(f)		15.19.6 16.2.6 16.6.1 16.6.2 16.6.3 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.6.1 16.6.2 16.6.3
537	o-Nitrophenol (molten)							↓ T4	↓ IIB	Yes ↓ No	C ↓ R	T ↓ F	AD ↓ ABC		15.12 15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.9
538	1- or 2-Nitropropane										R ↓ C		A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19
539	Nitropropane (60%)/Nitroethane (40%) mixture			3 ↓ 2				T4 ↓ T2			R ↓ C		A(f) ↓ ABC(f)		15.19.6 ↓ 15.12, 15.17, 15.19.6
540	o- or p-Nitrotoluenes												AB ↓ ABC		
541	Nonane (all isomers)		P ↓ S/P					T4 ↓ T3					BC ↓ ABC		
542	Nonanoic acid (all isomers)		P ↓ S/P	3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
543	Non-edible industrial grade palm oil											No ↓ T			15.12.3 15.12.4 15.19.6 16.2.6 16.2.9 ↓ 15.12.3 15.12.4 15.19.6 16.2.6 16.2.7 16.2.9
544	Nonene (all isomers)												A ↓ AC		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
545	Nonyl alcohol (all isomers)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6
546	Nonyl methacrylate monomer		P ↓ S/P										AB ↓ ABC		
547	Nonylphenol		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19 16.2.6 16.2.9
548	Nonylphenol poly(4+)ethoxylate		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6
549	Noxious liquid, NF, (1) n.o.s. (trade name, contains) ST1, Cat. X												A ↓ AC		
550	Noxious liquid, F, (2) n.o.s. (trade name, contains) ST1, Cat. X												A ↓ AC		
551	Noxious liquid, NF, (3) n.o.s. (trade name, contains) ST2, Cat. X												A ↓ AC		
552	Noxious liquid, F, (4) n.o.s. (trade name, contains) ST2, Cat. X												A ↓ AC		
553	Noxious liquid, NF, (5) n.o.s. (trade name, contains) ST2, Cat. Y												A ↓ AC		
554	Noxious liquid, F, (6) n.o.s. (trade name, contains) ST2, Cat. Y												A ↓ AC		
555	Noxious liquid, NF, (7) n.o.s. (trade name, contains) ST3, Cat. Y												A ↓ AC		
556	Noxious liquid, F, (8) n.o.s. (trade name, contains) ST3, Cat. Y												A ↓ AC		
557	Noxious liquid, NF, (9) n.o.s. (trade name, contains) ST3, Cat. Z												A ↓ AC		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
558	Noxious liquid, F, (10) n.o.s. (trade name, contains) ST3, Cat. Z											A ↓ AC		↓ 15.19.6	
559	Octamethylcyclotetrasiloxane	No change													
560	Octane (all isomers)											A ↓ AC			
561	Octanoic acid (all isomers)		P ↓ S/P	3 ↓ 2		Open ↓ Cont				O ↓ C	No ↓ T	A ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
562	Octanol (all isomers)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		↓ 15.12.3, 15.12.4, 15.19.6	
563	Octene (all isomers)											A ↓ AC			
564	n-Octyl acetate		P ↓ S/P									A ↓ AC			
565	Octyl aldehydes		P ↓ S/P									A ↓ AC			
566	Octyl decyl adipate		P ↓ S/P									A ↓ AC			
567	n-Octyl mercaptan					Cont ↓ Open		- ↓	- ↓	C ↓ O	T ↓ No		Yes ↓ No	15.12 15.17 15.19 ↓ 15.19	
568	Offshore contaminated bulk liquid P (o)	No change													
569	Offshore contaminated bulk liquid S (o)	No change													
570	Olefin-Alkyl ester copolymer (molecular weight 2000+)											AB ↓ ABC			
571	Olefin Mixture (C7-C9) C8 rich, stabilized		S/P ↓ P												
572	Olefin mixtures (C5-C7)		P ↓ S/P									A ↓ AC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
573	Olefin mixtures (C5-C15)		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
574	Olefins (C13+, all isomers)											AB ↓ ABC			
575	alpha-Olefins (C6-C18) mixtures		P ↓ S/P								F ↓ FT	A ↓ AC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9	
576	Oleic acid		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	AB ↓ ABC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9	
577	Oleum						No ↓ Dry							15.11.2~15.11.8 15.12.1 15.16.2 15.17 15.19 16.2.6 ↓ 15.11.2~15.11.8, 15.12, 15.16.2, 15.17, 15.19, 16.2.6	
578	Oleylamine									R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
579	Olive oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
580	Oxygenated aliphatic hydrocarbon mixture	No change													
581	Palm acid oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
582	Palm fatty acid distillate													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
583	Palm kernel acid oil					Open ↓ Cont				O ↓ R	No ↓ T			15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6, 16.2.7 16.2.9	
584	Palm kernel fatty acid distillate													15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6, 16.2.7 16.2.9	
585	Palm kernel oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
586	Palm kernel olein													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
587	Palm kernel stearin													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
588	Palm mid-fraction													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
589	Palm oil		S/P ↓ P											15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
590	Palm oil fatty acid methyl ester											A ↓ AC			
591	Palm olein													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
592	Palm stearin													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
593	Paraffin wax, highly-refined													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6, 16.2.7 16.2.9	
594	Paraffin wax, semi-refined														
595	Paraldehyde											A ↓ AC			
596	Paraldehyde-ammonia reaction product							T4 ↓ T1				A ↓ ABC	No ↓ Yes	15.12.3 15.19 ↓ 15.12, 15.17, 15.19	
597	Pentachloroethane									R ↓ C					
598	1,3-Pentadiene		S/P ↓ P								FT ↓ F	AB ↓ ABC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
599	1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures													No change	
600	Pentaethylenehexamine					Open ↓ Cont					O ↓ C	No ↓ T	B ↓ ABC	15.19 ↓ 15.12, 15.17, 15.19	
601	Pentane (all isomers)												A ↓ AC		
602	Pentanoic acid		P ↓ S/P	3 ↓ 2		Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
603	n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture					Open ↓ Cont		T2 ↓			No ↓ T	AD ↓ ABC	No ↓ Yes	15.11.2~15.11.4 15.11.6~15.11.8 15.12.3 15.19 ↓ 15.11.2~15.11.4 15.11.6~15.11.8 15.12, 15.17 15.19	
604	Pentene (all isomers)			3 ↓ 2									A ↓ AC		
605	n-Pentyl propionate		P ↓ S/P					T4 ↓ T2			F ↓ FT	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
606	Perchloroethylene									R ↓ C				15.12.1~15.12.2 15.19.6 ↓ 15.12, 15.17, 15.19.6	
607	Phenol											A ↓ AC	No ↓ Yes	15.12 15.19 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
608	1-Phenyl-1-xylyl ethane		P ↓ S/P	3 ↓ 2								AB ↓ ABC		↓ 15.19.6	
609	Phosphate esters, alkyl (C12-C14) amine		P ↓ S/P								F ↓ FT	A ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9	
610	Phosphoric acid					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.11.1~15.11.4 15.11.6~15.11.8 16.2.9 ↓ 15.11.1~15.11.4 15.11.6~15.11.8, 15.12, 15.17, 15.19, 16.2.9	
611	Phosphorus, yellow or white ↓ Phosphorus, yellow or white (*)											C ↓ ABC	Yes ↓ No		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
612	Phthalic anhydride (molten)										R ↓ C	No ↓ T	AD ↓ ABC	No ↓ Yes	15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19 16.2.6 16.2.9
613	alpha-Pinene		P ↓ S/P										A ↓ ABC		
614	beta-Pinene		P ↓ S/P					T4 ↓ T1					A ↓ ABC		
615	Pine oil		P ↓ S/P										A ↓ ABC		
616	Piperazine, 68% solution							- ↓	- ↓						
617	Polyacrylic acid solution (40% or less)	No change													
618	Polyalkyl (C18-C22) acrylate in xylene		P ↓ S/P					T4 ↓ T1				F ↓ FT	AB ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9
619	Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	No change													
620	Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether												A ↓ AC		
621	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate												A ↓ ABC		
622	Polyalkyl (C10-C20) methacrylate												AB ↓ ABC		
623	Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture												AB ↓ ABC		
624	Polyaluminium chloride solution		↓ S	↓ 3	↓ 2G	↓ Open	↓ No			↓ NF	↓ O	↓ No	↓ No	↓ No	
625	Polybutene												A ↓ ABC		

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
626	Polybutenyl succinimide											A ↓ ABC			
627	Poly(2+)cyclic aromatics		P ↓ S/P							R ↓ C	No ↓ T	AD ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12, 15.17, 15.19 16.2.6 16.2.9	
628	Polyether (molecular weight 1350+)											A ↓ ABC			
629	Polyethylene glycol											A ↓ AC			
630	Polyethylene glycol dimethyl ether		P ↓ S/P									A ↓ AC			
631	Poly(ethylene glycol) methylbutenyl ether (MW>1000)	No change													
632	Polyethylene polyamines					Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19 16.2.6 16.2.9	
633	Polyethylene polyamines (more than 50% C5 -C20 paraffin oil)					Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
634	Polyferric sulphate solution					Open ↓ Cont				O ↓ C	No ↓ T		No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
635	Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)											AC ↓ No			
636	Polyisobutenamine in aliphatic (C10-C14) solvent		P ↓ S/P	3 ↓ 2		Open ↓ Cont		T3 ↓ -	IIA ↓ -	O ↓ R	No ↓ T	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
637	(Polyisobutene) amino products in aliphatic hydrocarbons							- ↓	- ↓						
638	Polyisobutenyl anhydride adduct		P ↓ S/P									AB ↓ ABC			

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
639	Poly(4+)isobutylene (MW>224)							-	-					AB ↓ ABC	
640	Polyisobutylene (MW≤224)							-	-					AB ↓ ABC	
641	Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)		↓ S	↓ 2	↓ 2G	↓ Cont	↓ No			↓ Yes	↓ C	↓ T	↓ AC	↓ Yes	↓ 15.12, 15.17, 15.19, 16.2.9
642	Polymethylene polyphenyl isocyanate			2 ↓ 3									A ↓ AD	No ↓ Yes	15.12 15.16.2 15.19.6 16.2.9 ↓ 15.12, 15.16.2, 15.17, 15.19.6, 16.2.9
643	Polyolefin (molecular weight 300+)		S/P ↓ P										A ↓ ABC		
644	Polyolefin amide alkeneamine (C17+)		P ↓ S/P										AB ↓ ABC		
645	Polyolefin amide alkeneamine borate (C28-C250)												AB ↓ ABC		
646	Polyolefin amide alkeneamine polyol	No change													
647	Polyolefinamine (C28-C250)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	A ↓ ABC		16.2.9 15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9
648	Polyolefinamine in alkyl (C2-C4) benzenes		P ↓ S/P					T4 ↓ T2				F ↓ FT	A ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9
649	Polyolefinamine in aromatic solvent		P ↓ S/P					T4 ↓ T2				F ↓ FT	A ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9
650	Polyolefin aminoester salts (molecular weight 2000+)		P ↓ S/P										A ↓ ABC		
651	Polyolefin anhydride		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T	AB ↓ ABC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
652	Polyolefin ester (C28-C250)											AB ↓ ABC			
653	Polyolefin phenolic amine (C28-C250)		P ↓ S/P									AB ↓ ABC			
654	Polyolefin phosphorosulphide, barium derivative (C28-C250)											AB ↓ ABC			
655	Poly(20)oxyethylene sorbitan monooleate			2 ↓ 3								A ↓ AC			
656	Poly(5+)propylene											A ↓ ABC			
657	Polypropylene glycol					Cont ↓ Open						ABC ↓ AC			
658	Polysiloxane			3 ↓ 2				T4 ↓ T2				AB ↓ ABC			
659	Potassium chloride solution		S/P ↓ P									A ↓ No			
660	Potassium hydroxide solution ↓ Potassium hydroxide solution (*)									O ↓ C				15.19.6 ↓ 15.12.3.2, 15.19	
661	Potassium formate solutions (*)		↓ S	↓ 3	↓ 2G	↓ Open	↓ No			↓ NF	↓ R	↓ No	↓ No	↓ No 15.19.6	
662	Potassium oleate		P ↓ S/P									A ↓ AC			
663	Potassium thiosulphate (50% or less)		P ↓ S/P			Open ↓ Cont					O ↓ R	No ↓ T		16.2.9 15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9	
664	n-Propanolamine					Open ↓ Cont					O ↓ C	No ↓ T	AD ↓ ABC	No ↓ Yes 15.12, 15.17, 15.19, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
665	2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution		S/P ↓ P												
666	beta-Propiolactone			2 ↓ 1						R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12 15.17 15.18 15.19	
667	Propionaldehyde						No ↓ Inert				FT ↓ F	A ↓ AC	Yes ↓ No	15.17 15.19.6 ↓ 15.19.6	
668	Propionic acid									R ↓ C	F ↓ FT	A ↓ AC		15.11.2~15.11.4 15.11.6~15.11.8 15.19.6 ↓ 15.11.2~15.11.4 15.11.6~15.11.8, 15.12, 15.17, 15.19	
669	Propionic anhydride			3 ↓ 2						R ↓ C		A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
670	Propionitrile			2 ↓ 1								AD ↓ AC			
671	n-Propyl acetate											AB ↓ ABC			
672	n-Propyl alcohol		P ↓ S/P							R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
673	n-Propylamine											AD ↓ AC		15.12 15.19 ↓ 15.12, 15.17, 15.19	
674	Propylbenzene (all isomers)											A ↓ ABC			
675	Propylene carbonate		↓ S	↓ 3	↓ 2G	↓ Cont	↓ No			↓ Yes	↓ C	↓ T	↓ ABC	↓ Yes	↓ 15.12, 15.17, 15.19
676	Propylene glycol methyl ether acetate											A ↓ AC			
677	Propylene glycol monoalkyl ether		P ↓ S/P									AB ↓ AC		↓ 15.19.6	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
678	Propylene glycol phenyl ether		P ↓ S/P									AB ↓ ABC			
679	Propylene oxide													15.8 15.12.1 15.14 15.19 ↓ 15.8, 15.12, 15.14, 15.17, 15.19	
680	Propylene tetramer		P ↓ S/P									A ↓ ABC			
681	Propylene trimer		P ↓ S/P									A ↓ ABC			
682	Pyridine										F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
683	Pyrolysis gasoline (containing benzene)											AB ↓ ABC			
684	Rapeseed oil		S/P ↓ P											15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
685	Rapeseed oil (low erucic acid containing less than 4% free fatty acids)		S/P ↓ P											15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
686	Rape seed oil fatty acid methyl esters		P ↓ S/P									A ↓ ABC			
687	Resin oil, distilled													No change	
688	Rice bran oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
689	Rosin		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9	
690	Safflower oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
691	Shea butter													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
692	Sodium alkyl (C14-C17) sulphonates (60-65% solution)		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T			15.19.6 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6 16.2.6 16.2.9	
693	Sodium aluminosilicate slurry								Yes ↓ NF			AB ↓ No		↓ 16.2.9	
694	Sodium benzoate		P ↓ S/P									A ↓ AC		↓ 16.2.9	
695	Sodium borohydride (15% or less) / Sodium hydroxide solution ↓ Sodium borohydride (15% or less)/Sodium hydroxide solution (*)									O ↓ C				15.19.6 16.2.6 16.2.9 ↓ 15.19 16.2.6 16.2.9	
696	Sodium bromide solution (less than 50%) (*)	No change													
697	Sodium carbonate solution ↓ Sodium carbonate solution (*)		P ↓ S/P						Yes ↓ NF	O ↓ R		A ↓ No		↓ 15.19.6	
698	Sodium chlorate solution (50% or less) ↓ Sodium chlorate solution (50% or less) (*)									O ↓ R				15.9 15.19.6 16.2.9 ↓ 15.9, 15.12, 15.19, 16.2.9	
699	Sodium dichromate solution (70% or less)			2 ↓ 1	2G ↓ 1G	Open ↓ Cont					No ↓ T		No ↓ Yes	15.12.3 15.19 ↓ 15.12 15.17 15.18, 15.19	
700	Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution		P ↓ S/P												
701	Sodium hydrogen sulphite solution (45% or less)		S/P ↓ P												
702	Sodium hydrosulphide / Ammonium sulphide solution ↓ Sodium hydrosulphide/Ammonium sulphide solution (*)											A ↓ AC		15.12 15.14 15.17 15.19 16.6.1~16.6.3 ↓ 15.12, 15.15, 15.17, 15.19, 16.6.1~16.6.3	
703	Sodium hydrosulphide solution (45% or less) ↓ Sodium hydrosulphide solution (45% or less) (*)												No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.15, 15.19.6, 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
704	Sodium hydroxide solution ↓ Sodium hydroxide solution (*)										O ↓ C				16.2.6 16.2.9 15.19.6 ↓ 15.19, 16.2.6, 16.2.9
705	Sodium hypochlorite solution (15% or less)														15.19.6 ↓ 15.17, 15.19.6
706	Sodium methylate 21-30% in methanol ↓ Sodium methylate 21-30% in methyl alcohol														15.12 15.17 15.19 16.2.6 16.2.9 ↓ 15.12 15.17 15.19 16.2.6 (only if >28%) 16.2.9
707	Sodium nitrite solution			2 ↓ 3		Open ↓ Cont					O ↓ C	No ↓ T			15.12.3.1~15.12.3.2 15.19 16.2.9 ↓ 15.12.3, 15.12.4, 15.19, 16.2.6, 16.2.9
708	Sodium petroleum sulphonate					Open ↓ Cont					O ↓ R	No ↓ T	A ↓ ABC	No ↓ Yes	15.19.6 16.2.6 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6
709	Sodium poly(4+)acrylate solutions		P ↓ S/P										A ↓ AC		
710	Sodium silicate solution		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	16.2.9 15.19.6 ↓ 15.12, 15.17, 15.19, 16.2.9
711	Sodium sulphate solutions		↓ S	↓ 3	↓ 2G	↓ Open	↓ No			↓ NF	↓ O	↓ No	↓ No	↓ No	↓ 16.2.9
712	Sodium sulphide solution (15% or less)													No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9
713	Sodium sulphite solution (25% or less)		P ↓ S/P												
714	Sodium thiocyanate solution (56% or less)		P ↓ S/P							Yes ↓ NF					
715	Soyabean oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.7, 16.2.9
716	Soybean oil fatty acid methyl ester ↓ Soybean Oil Fatty Acid Methyl Ester									- ↓ ↓					

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
717	Styrene monomer										R ↓ C	F ↓ FT	AB ↓ ABC		15.13 15.19.6 16.6.1 16.6.2 ↓ 15.12, 15.13, 15.17, 15.19.6, 16.6.1, 16.6.2
718	Sulphohydrocarbon (C3-C88)												A ↓ ABC		
719	Sulpholane		P ↓ S/P										A ↓ AC		
720	Sulphur (molten) ↓ Sulphur (molten) (*)						Vent ↓ Vent or Pad (gas)								
721	Sulphuric acid			3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.11 15.16.2 15.19.6 ↓ 15.11 15.12 15.16.2 15.17 15.19 16.2.9
722	Sulphuric acid, spent			3 ↓ 2		Open ↓ Cont					O ↓ C	No ↓ T		No ↓ Yes	15.11 15.16.2 15.19.6 ↓ 15.11, 15.12, 15.16.2, 15.17, 15.19
723	Sulphurized fat (C14-C20)		P ↓ S/P										AB ↓ ABC		
724	Sulphurized polyolefinamide alkene (C28-C250) amine												A ↓ AC		
725	Sunflower seed oil														15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9
726	Tall oil, crude														No change
727	Tall oil, distilled														No change
728	Tall oil fatty acid (resin acids less than 20%)														No change
729	Tall oil pitch		S/P ↓ P												15.19.6 16.2.6 ↓ 15.19.6 16.2.6 16.2.9

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
730	Tall oil soap, crude							- ↓	- ↓						
731	Tallow													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
732	Tallow fatty acid											A ↓ AC		15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
733	Tetrachloroethane													15.12 15.17 15.19.6 ↓ 15.12.3, 15.12.4, 15.19	
734	Tetraethylene glycol											A ↓ AC			
735	Tetraethylene pentamine					Open ↓ Cont				O ↓ C	No ↓ T	A ↓ AC	No ↓ Yes	15.19.6 ↓ 15.12, 15.17, 15.19	
736	Tetrahydrofuran										FT ↓ F	A ↓ AC			
737	Tetrahydronaphthalene		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
738	Tetramethylbenzene (all isomers)		P ↓ S/P									A ↓ ABC			
739	Titanium dioxide slurry								Yes ↓ NF			AB ↓ No			
740	Toluene		P ↓ S/P							R ↓ C	F ↓ FT	A ↓ AC		15.19.6 ↓ 15.12, 15.17, 15.19.6	
741	Toluenediamine											AD ↓ ABC		15.12 15.17 15.19 16.2.6 16.2.9 ↓ 15.12 15.17 15.18 15.19 16.2.6 16.2.9	
742	Toluene diisocyanate							T1 ↓ -	IIA ↓ -			FT ↓ T	AC(b)D ↓ ABC(b)D	15.12 15.16.2 15.17 15.19 16.2.9 ↓ 15.12 15.16.2 15.17 15.18 15.19 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
743	o-Toluidine											A ↓ ABC			
744	Tributyl phosphate		P ↓ S/P			Open ↓ Cont					O ↓ C	No ↓ T		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
745	1,2,3-Trichlorobenzene (molten)			1 ↓ 2							C ↓ R		Yes ↓ No	15.12.1 15.17 15.19 16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	
746	1,2,4-Trichlorobenzene										R ↓ C			15.19 16.2.9 ↓ 15.12, 15.17, 15.19 16.2.9	
747	1,1,1-Trichloroethane			3 ↓ 2										A ↓ ABC	
748	1,1,2-Trichloroethane					Cont ↓ Open					R ↓ O	T ↓ No		15.12.1 15.19.6 ↓ 15.19.6	
749	Trichloroethylene													T2 ↓ - IIA ↓ - Yes ↓ NF R ↓ C	
750	1,2,3-Trichloropropane			2 ↓ 3										ABD ↓ ABC	
751	1,1,2-Trichloro-1,2,2-Trifluoroethane													No change	
752	Tricresyl phosphate (containing 1% or more ortho-isomer)			1 ↓ 2								No ↓ T		15.12.3 15.19 16.2.6 ↓ 15.12, 15.17, 15.19, 16.2.6	
753	Tricresyl phosphate (containing less than 1% ortho-isomer)					Open ↓ Cont					O ↓ C	No ↓ T		15.19.6 16.2.6 ↓ 15.12, 15.17, 15.19.6, 16.2.6	
754	Tridecane		P ↓ S/P											AB ↓ ABC	
755	Tridecanoic acid		P ↓ S/P											A ↓ ABC	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
769	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	Z ↓ Y	P ↓ S/P									AB ↓ ABC		↓ 15.19.6	
770	2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate		P ↓ S/P									A ↓ ABC			
771	1,3,5-Trioxane									R ↓ C	F ↓ FT	AD ↓ AC		15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19.6, 16.2.9	
772	Tripropylene glycol											A ↓ AC			
773	Trixylyl phosphate		P ↓ S/P	2 ↓ 1		Open ↓ Cont				O ↓ C	No ↓ T	A ↓ ABC		15.19.6 16.2.6 ↓ 15.12 15.17, 15.19.6, 16.2.6	
774	Tung oil													15.19.6 16.2.6 16.2.9 ↓ 15.19.6 16.2.6 16.2.7 16.2.9	
775	Turpentine		P ↓ S/P						T1 ↓ T3		F ↓ FT	A ↓ AC			
776	Undecanoic acid		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ ABC		16.2.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	
777	1-Undecene		P ↓ S/P									A ↓ ABC			
778	Undecyl alcohol		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ ABC		15.19.6 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.9	
779	Urea/Ammonium nitrate solution	Z ↓ Y	P ↓ S/P									A ↓ No		↓ 15.19.6	
780	Urea/Ammonium phosphate solution		P ↓ S/P			Open ↓ Cont				O ↓ R	No ↓ T	A ↓ AC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
781	Urea solution		P ↓ S/P									A ↓ AC		↓ 16.2.9	

Summary of Revised Carriage Requirements in Chapter 17

No.	a	c	d	e	f	g	h	i			j	k	l	n	o
								i'	i''	i'''					
795	Xylenes											A ↓ ABC			
796	Xylenes/ethylbenzene (10% or more) mixture		P ↓ S/P								F ↓ FT	A ↓ ABC		15.19.6 ↓ 15.12.3, 15.12.4, 15.19.6	
797	Xylenol					Open ↓ Cont				O ↓ C	No ↓ T	AB ↓ ABC	No ↓ Yes	15.19.6 16.2.9 ↓ 15.12, 15.17, 15.19, 16.2.9	
798	Zinc alkaryl dithiophosphate (C7-C16)											AB ↓ ABC			
799	Zinc alkenyl carboxamide		P ↓ S/P									AB ↓ ABC			
800	Zinc alkyl dithiophosphate (C3-C14)											AB ↓ ABC			

<Footnotes to products in chapter 17>

Some entries in chapter 17 contain footnotes, as either letters or symbols in parentheses following the name of the product, in column "a" of the tables. These provide additional information about the carriage requirements for the product. The definitions of these footnotes are included below:

- 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 shall be provided.
- b Although water is suitable for extinguishing open-air fires involving chemicals to which this footnote applies, water shall not 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 shall not be used as fire-extinguishing media.
- g Confined spaces shall 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.
- l Applicable when the melting point is equal to or greater than 0°C.
- m From vegetable oils, animal fats and fish oils specified in the IBC Code.
- n Confirmation that the product is composed of Triglycerides, C16-C18 and C18 unsaturated shall be required in order for the entry to be used. Otherwise, the more generic entry "Used cooking oil (m)" must be used.
- o Indicates that the entries are to be used solely for backloading of contaminated bulk liquids from offshore installations used in the search and exploitation of seabed mineral resources.

* Indicates that with reference to chapter 21 of the IBC Code (paragraph 21.1.3), deviations from the normal assignment criteria used for some carriage requirements have been implemented

Summary of Revised Carriage Requirements in Chapter 18

The following are products which have been reviewed for their safety and pollution hazards and determined not to present hazards to such an extent as to warrant application of the Code.

No.	Product name	Pollution category	No.	Product name	Pollution category
1	Acetone	Z	12	Non noxious liquid, (12) n.o.s. (trade name, contains) Cat. OS	OS
2	Alcoholic beverages, n.o.s.	Z	13	Orange juice (concentrated)	OS
3	Apple juice	OS	14	Orange juice (not concentrated)	OS
4	n-Butyl alcohol	Z	15	Potassium chloride solution (less than 26%)	OS
5	sec-Butyl alcohol	Z	16	Propylene glycol	Z → OS
6	Isopropyl alcohol	Z	17	Sodium acetate solutions	Z
7	Calcium carbonate slurry	OS	18	Sodium bicarbonate solution (less than 10%)	OS
8	Clay slurry	OS	19	Sorbitol solution	OS
9	Coal slurry	OS	20	Sulphonated polyacrylate solution	Z
10	Ethyl alcohol	Z	21	Tetraethyl silicate monomer/oligomer (20% in ethanol)	Z
11	Noxious liquid, (11) n.o.s. (trade name, contains) Cat. Z	Z	22	Glucose solution	OS
23	Glycerol ethoxylated	OS	28	Triethylene glycol	Z → OS
24	Hydrogenated starch hydrolysate	OS	29	Vegetable protein solution (hydrolysed)	OS
25	Kaolin slurry	OS	30	Water	OS
26	Lecithin	OS	31	Microsilica slurry	OS
27	Maltitol solution	OS	32	Molasses	OS