

標題

MEPC 52 の審議結果の紹介

ClassNK

テクニカル インフォメーション

No. TEC-0608
発行日 2004年11月22日

各位

2004年10月11日から10月15日にかけて開催されたIMOの第52回海洋環境保護委員会(MEPC 52)における情報および審議結果を次のとおりお知らせいたします。

1. 条約の採択

MARPOL 73/78 Annex I および Annex II、並びに IBC コードの改正案が採択されました。改正規則は2007年1月1日に発効を予定しています。

(1) MARPOL 73/78 Annex I(添付1参照)

船舶からの油による海洋汚染を防止するための MARPOL Annex I の全面改正案が採択されました。1983年に発効して以来度重なる改正が行われており、結果的に MARPOL Annex I はユーザーにとって複雑な規則構成となっています。今回の全面見直しは、ユーザーフレンドリーの観点から構成の見直しを行ったものとなっています。参考に添付1に目次を示します。また、この改正には今回新たに合意された以下の改正も含まれています。

(i) オマーン海域の追加(第1規則)

特別海域として新たにアラビア海のオマーン海域が追加された。

(ii) ポンプルームの二重底化(第22規則)

2007年1月1日以降建造の5,000DWT以上の油タンカーは、ポンプルームに二重底が要求される。二重底高さの要件は、B/15メートルまたは2メートルのうち小さい方以上(最小1メートル)。

(iii) 油流出評価(第23規則)

2010年1月1日以降引き渡しのすべての油タンカーは、現行の第22~24規則の代わりに衝突・座礁に対する油流出を制限するために新たな規則が適用される。本規則に対する解説書も同時に採択された。

(iv) 船上油汚染緊急計画(第37規則)

2007年1月1日以降、5,000DWT以上の油タンカーは、陸上ベースの損傷時復原性および残存構造強度計算プログラムへ迅速にアクセスできることが要求される。

(2) MARPOL 73/78 Annex II(添付2参照)

船舶からの有害液体物質による海洋汚染を防止するための MARPOL Annex II の全面改正案が採択されました。主な改正点は、汚染分類方式を現行の5分類(A, B, C, D, III)から4分類(X, Y, Z, OS)に変更したことです。この改正の他にストリップング量、排出要件等の見直しも行われています。

また、規則の構成も変わっておりますので、参考に添付2に目次を示します。

(次頁に続く)

NOTES:

- ClassNK テクニカル・インフォメーションは、あくまで最新情報の提供のみを目的として発行しています。
- ClassNK 及びその役員、職員、代理もしくは委託事業者のいずれも、掲載情報の正確性及びその情報の利用あるいは依存により発生する、いかなる損失及び費用についても責任は負いかねます。
- バックナンバーは ClassNK インターネット・ホームページ(URL: www.classnk.or.jp)においてご覧いただけます。

(3) IBC コード(添付 3 参照)

危険化学薬品を運送するための構造・設備に関する規定を定める IBC コードの改正案が採択されました。IBCコードは安全に関する要件も含まれているため、安全要件に関しては、本年 12 月開催の第 79 回海上安全委員会(MSC 79)で審議の上採択される予定です。今回改正された汚染分類クライテリアおよび船型要件クライテリアに従い再評価が行われた結果、575 の物質が改正 17 章または 18 章に含まれました。改正 17 章および 18 章を添付 3 に示します。

なお、汚染分類および船型要件を評価するためのデータが揃っていない物質が 187 あります。これらの物質は評価出来ないため、今回、改正 17 章または 18 章から削除されましたが、これらの物質は必要なデータが GESAMP に提出され再評価が行われた後に、MEPC. 2/Circ.(通常、毎年 12 月に回章)にて公表されることになっています。

2. MEPC 53(2005 年 7 月開催予定)で採択が見込まれる条約等の改正

MALPOL Annex VI および NO_xテクニカルコードの改正案(「fa 係数」、「北海を SO_x 排出制御海域に追加」および「検査と証書の調和システムの導入」)は、過去の MEPC ですでに承認されていましたが、MALPOL Annex VI が発効していなかったため、これらの改正案は採択されていませんでした。MALPOL Annex VI の発効の目途が立った(2005 年 5 月 19 日発効)ため、次回の MEPC 53 でこの改正案を採択することが決定されました。

3. バラスト水管理

バラスト水管理条約の採択後、MEPC 51 にて同条約のガイドライン(G1~G13)を作成することが合意されていきました。今回は「バラスト水管理システムの承認のためのガイドライン(G8)」および「活性物質の承認のための手順(G9)」の原案が原則承認され、MEPC 53 で採択される見込みです。その他のガイドラインは、来年 4 月開催のばら積み液体およびガス小委員会(BLG9)および今後の MEPC にて審議される予定です。

4. 油水分離器等に関する改正ガイドラインの適用時期の明確化

昨年 7 月開催の MEPC 49 で採択された Resolution MEPC. 107(49)「機関室ビルジの汚染防止設備に関する改正ガイドライン」の適用時期が今回の会合で以下のとおり明確化されました。

- 新基準の para. 1. 3. 1. 1 の解釈: 2004 年 12 月 31 日以前の建造船(Keel lay ベース)で 2005 年 1 月 1 日以降に設置される油水分離器および油分濃度計には、新基準を適用する必要はない。
- 新基準の para. 1. 3. 1. 2 の解釈: ①“new”→“replacement”、②“fitted”→“ordered”とそれぞれ解釈する。

したがって、新基準の適用は以下のとおりとなります。

- 2005 年 1 月 1 日以降の建造船(Keel lay ベース)に設置される油水分離器および油分濃度計
- 2004 年 12 月 31 日以前の建造船(Keel lay ベース)で載せ替え(replacement)のために 2005 年 1 月 1 日以降に発注された油水分離器および油分濃度計

(次頁に続く)

なお、本 MEPC 52 の審議概要につきましては IMO ホームページにも掲載されていますのでご参照ください。(http://www.imo.org)

なお、本件に関してご不明な点は、以下の部署にお問い合わせください。

財団法人 日本海事協会 (ClassNK)

本部 管理センター 国際室

住所: 東京都千代田区紀尾井町 4-7(郵便番号 102-8567)

Tel.: 03-5226-2038

Fax: 03-5226-2039

E-mail: xad@classnk.or.jp

添付:

1. A table of contents of the Revised MARPOL 73/78 Annex I
2. A table of contents of the Revised MARPOL 73/78 Annex II
3. Chapters 17 and 18 in the Revised IBC Code

ANNEX

TEXT OF THE REVISED ANNEX I OF MARPOL 73/78

Regulations for the Prevention of Pollution by Oil

Contents

CHAPTER 1 - GENERAL

Regulation 1	Definitions
Regulation 2	Application
Regulation 3	Exemptions and waivers
Regulation 4	Exceptions
Regulation 5	Equivalents

CHAPTER 2 - SURVEYS AND CERTIFICATION

Regulation 6	Surveys
Regulation 7	Issue or endorsement of certificate
Regulation 8	Issue or endorsement of certificate by another Government
Regulation 9	Form of certificate
Regulation 10	Duration and validity of certificate
Regulation 11	Port State control on operational requirements

CHAPTER 3 - REQUIREMENTS FOR MACHINERY SPACES OF ALL SHIPS**Part A Construction**

Regulation 12	Tanks for oil residues (sludge)
Regulation 13	Standard discharge connection

Part B Equipment

Regulation 14	Oil filtering equipment
---------------	-------------------------

Part C Control of operational discharge of oil

Regulation 15	Control of discharge of oil
Regulation 16	Segregation of oil and water ballast and carriage of oil in forepeak tanks
Regulation 17	Oil Record Book, Part I - Machinery space operations

CHAPTER 4 - REQUIREMENTS FOR THE CARGO AREAS OF OIL TANKERS**Part A Construction**

Regulation 18	Segregated ballast tanks
Regulation 19	Double hull and double bottom requirements for oil tankers delivered on or after 6 July 1996
Regulation 20	Double hull and double bottom requirements for oil tankers delivered before 6 July 1996
Regulation 21	Prevention of oil pollution from oil tankers carrying heavy grade oil as cargo

Regulation 22	Pump-room bottom protection
Regulation 23	Accidental oil outflow performance
Regulation 24	Damage assumptions
Regulation 25	Hypothetical outflow of oil
Regulation 26	Limitations of size and arrangement of cargo tanks
Regulation 27	Intact stability
Regulation 28	Subdivision and damage stability
Regulation 29	Slop tanks
Regulation 30	Pumping, piping and discharge arrangement

Part B Equipment

Regulation 31	Oil discharge monitoring and control system
Regulation 32	Oil/water interface detector
Regulation 33	Crude oil washing requirements

Part C Control of operational discharge of oil

Regulation 34	Control of discharge of oil
Regulation 35	Crude oil washing operations
Regulation 36	Oil Record Book, Part II - Cargo/ballast operations

CHAPTER 5 - PREVENTION OF OIL POLLUTION ARISING FROM AN OIL POLLUTION INCIDENT

Regulation 37	Shipboard oil pollution emergency plan
---------------	--

CHAPTER 6 - RECEPTION FACILITIES

Regulation 38	Reception facilities
---------------	----------------------

CHAPTER 7 - SPECIAL REQUIREMENTS FOR FIXED OR FLOATING PLATFORMS

Regulation 39	Special requirements for fixed or floating platforms
---------------	--

APPENDICES TO ANNEX I

Appendix I	List of oils
Appendix II	Form of IOPP Certificate
Appendix III	Form of Oil Record Book

TEXT OF THE REVISED ANNEX II OF MARPOL 73/78**REGULATIONS FOR THE CONTROL OF POLLUTION
BY NOXIOUS LIQUID SUBSTANCES IN BULK****Contents****Chapter 1 - General**

- Regulation 1 Definitions
- Regulation 2 Application
- Regulation 3 Exceptions
- Regulation 4 Exemptions
- Regulation 5 Equivalents

Chapter 2 - Categorization of Noxious Liquid Substances and Other Substances

- Regulation 6 Categorization of and listing of Noxious Liquid Substances and Other Substances

Chapter 3 - Surveys and certification

- Regulation 7 Survey and certification of chemical tankers
- Regulation 8 Surveys
- Regulation 9 Issue or endorsement of certificate
- Regulation 10 Duration and validity of certificate

Chapter 4 - Design, construction, arrangement and equipment

- Regulation 11 Design, construction, equipment and operations
- Regulation 12 Pumping, piping, unloading arrangements, and slop tanks

Chapter 5 - Operational discharges of residues of Noxious Liquid Substances

- Regulation 13 Control of discharges of residues of Noxious Liquid Substances
- Regulation 14 Procedures and Arrangements Manual
- Regulation 15 Cargo Record Book

Chapter 6 - Measures of control by port States

- Regulation 16 Measures of control

Chapter 7 - Prevention of pollution arising from an incident involving Noxious Liquid Substances

- Regulation 17 Shipboard marine pollution emergency plan for Noxious Liquid Substances

Chapter 8 - Reception facilities

Regulation 18 Reception facilities and cargo unloading terminal arrangements

Appendices to Annex II

- | | |
|-------------------|--|
| Appendix 1 | Guidelines for the categorization of Noxious Liquid Substances |
| Appendix 2 | Form of Cargo Record Book for ships carrying Noxious Liquid Substances in Bulk |
| Appendix 3 | Form of International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk |
| Appendix 4 | Standard format for the Procedures and Arrangements Manual |
| Appendix 5 | Assessment of residue quantities in cargo tanks, pumps and associated piping |
| Appendix 6 | Prewash procedures |
| Appendix 7 | Ventilation procedures |

Chapter 17

a	c	d	e	f	g	h	i'	i''	i'''	j	k	l	n	o
Acetic acid	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, 16.2.9
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
Acetone cyanohydrin	Y	S/P	2	2G	Cont	No	T1	IIA	Yes	C	T	A	Yes	15.1, 15.12, 15.17, 15.18, 15.19, 16.6.1, 16.6.2, 16.6.3
Acetonitrile	Z	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.12, 15.19.6
Acrylic acid	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.13, 15.19.6, 16.6.1, 16.2.9
Acrylonitrile	Y	S/P	2	2G	Cont	No	T1	IIIB	No	C	F-T	A	Yes	15.12, 15.13, 15.17, 15.19
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.6
Adiponitrile	Z	S/P	3	2G	Cont	No		IIIB	Yes	R	T	A	No	16.2.9
Alachlor technical (90% or more)	X	S/P	2	2G	Open	No			Yes	O	No	AC	No	15.19.6, 16.2.9
Alcohol (C9-C11) poly(2,5-9) ethoxylate	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.9
Alcohol (C6-C17) (secondary) poly(3-6)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.9
Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.6, 16.2.9
Alcohol (C12-C16) poly(1-6)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.9
Alcohol (C12-C16) poly(20+)ethoxylates	Y	P	3	2G	Open	No			Yes	O	No	A	No	16.2.9
Alcohol (C12-C16) poly(7-19)ethoxylates	Y	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.9
Alcohols (C13+)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.9
Alkanes (C6-C9)	X	P	2	2G	Cont	No			No	R	F	A	No	15.19.6
Iso- and cyclo-alkanes (C10-C11)	Z	P	3	2G	Cont	No			No	R	F	A	No	
Iso- and cyclo-alkanes (C12+)	Z	P	3	2G	Cont	No			No	R	F	A	No	
n-Alkanes (C10+)	Z	P	3	2G	Cont	No			No	R	F	AB	No	
Alkenyl (C16-C20) succinic anhydride	Z	S/P	3	2G	Cont	No			Yes	C	T	No	Yes	15.12, 15.17, 15.19
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	ABC	No	15.12, 15.17, 15.19
Alkylated (C4-C9) hindered phenols	Y	S/P	2	2G	Open	No			Yes	O	No	BD	No	15.19.6, 16.2.6, 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 (C5-C8) benzenes	X	P	2	2G	Open	No			Yes	O	No	A	No	15.19.6
Alkyl (C9+) benzenes	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Alkyl (C12+) dimethylamine	X	S/P	1	2G	Cont	No			Yes	C	T	BCD	Yes	15.12, 15.17, 15.19
Alkyl dithiocarbamate (C19-C35)	Y	P	3	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Alkyl dithiothiadiazole (C6-C24)	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Alkyl ester copolymer (C4-C20)	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Alkyl (C8-C10)/(C12-C14)(40% or less/60% or more) polyglucoside solution (55% or less)	Y	P	3	2G	Open	No			Yes	O	No	No	No	15.19.6, 16.2.6, 16.2.9

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)	Y	P	3	2G	Open	No	No	Yes	O	No	No	No	16.2.9, 16.2.6
Alkyl (C8-C40) phenol sulphide	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
Alkyl (C8-C9) phenylamine in aromatic solvents	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Alkyl (C9-C15) phenyl propoxylate	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	Y	P	3	2G	Open	No	No	Yes	O	No	No	No	16.2.9, 16.2.6
Alkyl (C12-C14) polyglucoside solution (55% or less)	Y	P	3	2G	Open	No	No	Yes	O	No	No	No	15.19.6, 16.2.9
Alkyl (C8-C10) polyglucoside solution (65% or less).	Y	P	3	2G	Open	No	No	Yes	O	No	No	No	16.2.6
Alkyl (C10-C20, saturated and unsaturated) phosphite	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	16.2.9
Alkyl sulphonic acid ester of phenol	Y	P	3	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6
Allyl alcohol	Y	S/P	2	2G	Cont	No	T2 IIB	No	C	F-T	A	Yes	15.12, 15.17, 15.19
Allyl chloride	Y	S/P	2	2G	Cont	No	T2 IIA	No	C	F-T	A	Yes	15.12, 15.17, 15.19
Aluminium sulphate solution	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6
Aminoethyl ethanolamine	Z	S/P	3	2G	Open	No	T2 IIA	Yes	O	No	A	No	
2-Amino-2-methyl-1-propanol	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Ammonia aqueous (28% or less)	Y	S/P	2	2G	Cont	No	No	NF	R	T	ABC	Yes	
Ammonium hydrogen phosphate solution	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Ammonium nitrate solution (93% or less)	Z	S/P	2	1G	Open	No	No	NF	O	No	No	No	15.2, 15.11.4, 15.11.6, 15.18, 15.19.6, 16.2.9
Ammonium polyphosphate solution	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Ammonium sulphate solution	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Ammonium sulphide solution (45% or less)	Y	S/P	2	2G	Cont	No	No	No	C	F-T	A	Yes	15.12, 15.17, 15.19, 16.6.1, 16.6.2, 16.6.3
Amyl acetate (all isomers)	Y	P	3	2G	Cont	No	No	No	R	F	A	No	15.19.6
n-Amyl alcohol	Z	P	3	2G	Cont	No	No	No	R	F	AB	No	
Amyl alcohol, primary	Z	P	3	2G	Cont	No	No	No	R	F	AB	No	
sec-Amyl alcohol	Z	P	3	2G	Cont	No	No	No	R	F	AB	No	
tert-Amyl alcohol	Z	P	3	2G	Cont	No	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
Aniline	Y	S/P	2	2G	Cont	No	T1 IIA	Yes	C	T	A	No	15.12, 15.17, 15.19
Aryl polyolefins (C11-C50)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)	X	P	2	2G	Cont	No	No	No	R	F	B	No	15.19.6
Barium long chain (C11-C50) alkaryl sulphionate	Y	S/P	2	2G	Open	No	No	Yes	O	No	AD	No	15.12.3, 15.19, 16.2.6, 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, 16.2.9
Benzenetricarboxylic acid, trioctyl ester	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
Benzyl acetate	Y	P	2	2G	Open	No		Yes	O	No	A	No	
Benzyl alcohol	Y	P	3	2G	Open	No		Yes	O	No	A	No	
Bromochloromethane	Z	S/P	3	2G	Cont	No		NF	R	T	No	No	
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, 16.6.1, 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		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
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	Y	S/P	2	2G	Cont	No		Yes	R	No	AD	No	15.13, 16.6.1, 16.6.2, 15.19.6
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 to 15.8.7, 15.12, 15.13, 15.16, 15.17, 15.18, 15.19, 15.21, 15.25, 15.27, 15.29, 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, 16.6.1, 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
Calcium carbonate slurry	Z	P	3	2G	Open	No		Yes	O	No	AB	No	
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, 16.2.9
Calcium long-chain alkyl(C5-C10) phenate	Y	P	3	2G	Open	No		Yes	O	No	A	No	
Calcium long-chain alkyl(C11-C40) phenate	Z	P	3	2G	Open	No		Yes	O	No	A	No	
Calcium long-chain alkyl phenate sulphide (C8-C40)	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
epsilon-Caprolactam (molten or aqueous solutions)	Z	P	3	2G	Open	No		Yes	O	No	A	No	
Carbon disulphide	Y	S/P	2	1G	Cont	Pad+liner	T6	IIC	No	C	F-T	C	Yes 15.3, 15.12, 15.19
Carbon tetrachloride	Y	S/P	2	2G	Cont	No		NF	C	T	No	Yes	15.12, 15.17, 15.19.6
Castor oil (containing less than 2% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6
Cetyl/Eicosyl methacrylate mixture	Y	S/P	2	2G	Open	No		Yes	O	No	AD	No	15.13, 16.6.1, 16.6.2, 15.19.6, 16.2.9

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
Chlorinated paraffins (C10-C13)	X	P	1	2G	Open	No	No	Yes	O	No	A	No	15.19, 16.2.6
Chloroacetic acid (80% or less)	Y	S/P	2	2G	Cont	No	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, 16.2.9
Chlorobenzene	Y	S/P	2	2G	Cont	No	TI IIA	No	R	F-T	AB	No	15.19.6
Chloroform	Y	S/P	3	2G	Cont	No	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
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	Y	P	2	2G	Open	No	No	NF	O	No	No	No	16.2.9
1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one	Y	P	2	2G	Open	No	No	Yes	O	No	ABD	No	15.19.6, 16.2.6, 16.2.9
2- or 3-Chloropropionic acid	Z	S/P	3	2G	Open	No	No	Yes	O	No	A	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 16.2.9
Chlorosulphonic acid	Y	S/P	1	2G	Cont	No	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, 15.19
o-Chlorotoluene	Y	S/P	2	2G	Cont	No	No	No	R	F-T	AB	No	15.19.6
p-Chlorotoluene	Y	S/P	2	2G	Cont	No	No	No	R	F-T	AB	No	15.19.6, 16.2.9
Chlorotoluenes (mixed isomers)	Y	S/P	2	2G	Cont	No	No	No	R	F-T	AB	No	15.19.6
Choline chloride solutions	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Citric acid (70% or less)	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Coconut oil (containing less than 5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Corn Oil (containing less than 10% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6
Cotton seed oil (containing less than 12% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Cresols (all isomers)	Y	S/P	2	2G	Open	No	TI IIA	Yes	O	No	AB	No	15.19.6, 16.2.9
Cresylic acid, dephenolized	Y	S/P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6
Crtonaldehyde	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-Cyclododecatriene	X	S/P	1	2G	Cont	No	No	Yes	R	T	A	No	15.13, 15.19, 16.6.1, 16.6.2
Cycloheptane	X	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Cyclohexane	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6, 16.2.9
Cyclohexanol	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 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	No	Yes	R	F-T	A	No	
Cyclohexyl acetate	Y	P	3	2G	Cont	No	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	No	R	F	A	No	15.19.6, 16.2.6, 16.2.9

Chapter 17

a	c	d	e	f	g	h	i'	i''	j'''	k	l	n	o
Cyclopentane	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Cyclopentene	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
p-Cymene	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Decahydronaphthalene	Y	P	2	2G	Cont	No	No	No	R	F	AB	No	15.19.6
Decanoic acid	X	P	2	2G	Open	No	No	Yes	O	No	A	No	16.2.9
Decyl acrylate	X	S/P	1	2G	Open	No	T3	IIA	Yes	O	No	ACD	No 15.13, 15.19, 16.6.1, 16.6.2
Decyl alcohol (all isomers)	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.9(e)
Diacetone alcohol	Z	P	3	2G	Cont	No	No	No	R	F	A	No	
Dialkyl (C8-C9) diphenylamines	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
Dialkyl (C7-C13) phthalates	X	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6
Dibromomethane	Y	S/P	2	2G	Cont	No	No	NF	R	T	No	No	15.12.3, 15.19
Dibutylamine	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	ACD	No 15.19.6
Dibutyl hydrogen phosphonate	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.9
Dibutyl phthalate	X	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6
Dichlorobenzene (all isomers)	X	S/P	2	2G	Cont	No	T1	IIA	Yes	R	T	ABD	No 15.19.6
3,4-Dichloro-1-butene	Y	S/P	2	2G	Cont	No	No	No	C	F-T	ABC	Yes	15.12.3, 15.17, 15.19.6
Dichloroethyl ether	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No 15.19.6
2,2-Dichloroisopropyl ether	Y	S/P	2	2G	Cont	No	No	Yes	R	T	ACD	No	15.12, 15.17, 15.19
2,4-Dichlorophenol	Y	S/P	2	2G	Cont	Dry	No	Yes	R	T	A	No	15.19.6, 16.2.6, 16.2.9
1,1-Dichloropropane	Y	S/P	2	2G	Cont	No	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, 15.19
Dichloropropene/Dichloropropane mixtures	X	S/P	2	2G	Cont	No	No	No	C	F-T	ABD	Yes	15.12, 15.17, 15.18, 15.19
Diethanolamine	Y	S/P	3	2G	Open	No	T1	IIA	Yes	O	No	A	No 16.2.6, 16.2.9
Diethylamine	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	A	Yes 15.12, 15.19.6
Diethylaminoethanol	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	AC	No 15.19.6
Diethylbenzene	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Diethylenetriamine	Y	S/P	3	2G	Open	No	T2	IIA	Yes	O	No	A	No
Diethyl ether	Z	S/P	2	1G	Cont	Inert	T4	IIB	No	C	F-T	A	Yes 15.4, 15.14, 15.19
Di-(2-ethylhexyl) adipate	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6
Diethyl phthalate	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	
Diethyl sulphate	Y	S/P	2	2G	Cont	No	No	Yes	C	T	A	No	15.19.6
Diheptyl phthalate	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o	
Di-n-hexyl adipate	X	P	1	2G	Open	No		Yes	O	No	A	No	15.19	
Dihexyl phthalate	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6	
Diisobutylamine	Y	S/P	2	2G	Cont	No		No	R	F-T	ACD	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	
Diisooctyl phthalate	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6, 16.2.6	
Diisopropanolamine	Z	S/P	3	2G	Open	No	T2	IIA	Yes	O	No	A	No	16.2.9
Diisopropylamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	F-T	A	Yes	15.12, 15.19
Diisopropylbenzene (all isomers)	X	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	ACD	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, 16.2.9	
Dimethylamine solution (45% or less)	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F-T	ACD	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	ACD	Yes	15.12, 15.17, 15.19	
Dimethylamine solution (greater than 55% but not greater than 65%)	Y	S/P	2	2G	Cont	No		No	C	F-T	ACD	Yes	15.12, 15.14, 15.17, 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	
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		
Dimethyl hydrogen phosphite	Y	S/P	3	2G	Cont	No		Yes	R	T	AD	No	15.12.1, 15.19.6	
Dimethyl octanoic acid	Y	P	2	2G	Open	No		Yes	O	No	A	No	16.2.9, 16.2.6	
Dimethyl phthalate	Y	P	3	2G	Open	No		Yes	O	No	A	No	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		
Dimethyl succinate	Y	P	3	2G	Open	No		Yes	O	No	A	No	16.2.9	
Dinitrotoluene (molten)	X	S/P	2	2G	Cont	No		Yes	C	T	A	No	15.12, 15.17, 15.19, 15.21, 16.6.4, 16.2.6, 16.2.9	
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, 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, 16.2.6, 16.2.9	

Chapter 17

a	c	d	e	f	g	h	i'	i'''	j	k	l	n	o		
Diphenyl/Diphenyl ether mixtures	X	P	2	2G	Open	No		Yes	O	No	B	No	15.19.6, 16.2.9		
Diphenyl ether	X	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.9		
Diphenyl ether/Diphenyl phenyl ether mixture	X	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.9		
Diphenylol propane-epichlorohydrin resins	X	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.9		
Di-n-propylamine	Y	S/P	2	2G	Cont	No		No	R	F-T	A	No	15.19.6, 16.2.6, 16.2.9		
Dipropylene glycol	Z	P	3	2G	Open	No		Yes	O	No	A	No	15.12.3, 15.19.6		
Dithiocarbamate ester (C7-C35)	X	P	2	2G	Open	No		Yes	O	No	AD	No	15.19.6, 16.2.9		
Diundecyl phthalate	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6, 16.2.6, 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	ABD	Yes	15.12, 15.17, 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, 16.2.9		
Dodecylbenzene	Z	P	3	2G	Open	No		Yes	O	No	AB	No			
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)	Z	S/P	3	2G	Open	No		Yes	R	No	AD	No	15.13, 16.6.1, 16.6.2		
Dodecyl/Pentadecyl methacrylate mixture	Y	S/P	2	2G	Open	No		Yes	O	No	AD	No	15.13, 16.6.1, 16.6.2, 15.19.6		
Dodecyl phenol	X	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.6		
Dodecyl Xylene	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6, 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 solution and sodium chloride solutions solution	Z	P	3	2G	Open	No		Yes	O	No	A	No			
Epichlorohydrin	Y	S/P	2	2G	Cont	No		IIB	No	C	F-T	A	Yes	15.12, 15.17, 15.19	
Ethanolamine	Y	S/P	3	2G	Open	No		T2	IIA	Yes	O	F-T	A	No	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	Z	P	3	2G	Open	No		Yes	O	No	AB	No			
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, 16.6.1, 16.6.2
Ethylamine	Y	S/P	2	1G	Cont	No		T2	IIA	No	C	F-T	CD	Yes	15.12, 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, 15.17, 15.19		
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		
Ethylcyclohexane	Y	P	2	2G	Cont	No		No	R	F	A	No	15.19.6		

Chapter 17

a	c	d	e	f	g	h	i'	i''	i'''	j	k	l	n	o
N-Ethylcyclohexylamine	Y	S/P	2	2G	Cont	No	No	No	No	R	F-T	A	No	15.19.6
S-Ethyl dipropylthiocarbamate	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	No	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
Ethylene cyanohydrin	Y	S/P	3	2G	Open	No	No	IIIB	Yes	O	No	A	No	
Ethylene diamine	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	A	No	15.19.6, 16.2.9
Ethylene dibromide	Y	S/P	2	2G	Cont	No	No	NF	C	T	No	Yes	Yes	15.12, 15.19.6, 16.2.9
Ethylene dichloride	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	F-T	AB	No	15.19
Ethylene glycol	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	No	15.19.6
Ethylene glycol butyl ether acetate	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	No	
Ethylene glycol diacetate	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	No	
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	IIIB	No	C	F-T	AC	No	15.8, 15.12, 15.14, 15.19
Ethyl-3-ethoxypropionate	Y	P	3	2G	Cont	No	No	No	R	No	A	No	No	15.19.6
2-Ethylhexanoic acid	Y	P	3	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6
2-Ethylhexyl acrylate	Y	S/P	3	2G	Open	No	T3	IIIB	Yes	O	No	A	No	15.13, 15.19.6, 16.6.1, 16.6.2
2-Ethylhexylamine	Y	S/P	2	2G	Cont	No	No	No	R	F-T	A	No	No	15.12, 15.19.6
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6, 16.2.6, 16.2.9
Ethylidene norbornene	Y	S/P	2	2G	Cont	No	No	No	R	F-T	AD	No	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, 16.6.1, 16.6.2
N-Ethylmethylallylamine	Y	S/P	2	2G	Cont	No	T2	IIIB	No	C	F	AC	Yes	15.12.3, 15.17, 15.19
2-Ethyl-3-propylacrolein	Y	S/P	3	2G	Cont	No	No	IIA	No	R	F-T	A	No	15.19.6, 16.2.9
para-Ethyl Toluene	Y	P	2	2G	Cont	No	No	No	R	F	A	No	No	15.19.6
Fatty acid (saturated C13+)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6, 16.2.9
Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester.	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6
Ferric chloride solutions	Y	S/P	3	2G	Open	No	No	NF	O	No	No	No	No	15.11, 15.19.6, 16.2.9
Ferric nitrate/Nitric acid solution	Y	S/P	2	2G	Cont	No	No	NF	R	T	No	Yes	Yes	15.11, 15.19
Fish oil (containing less than 4% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	NO	No	15.19.6, 16.2.6, 16.2.9
Formaldehyde solutions (45% or less)	Y	S/P	3	2G	Cont	No	T2	IIIB	No	R	F-T	A	Yes	15.19.6, 16.2.9
Formamide	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	No	15.19.6, 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, 16.2.9
Furfural	Y	S/P	3	2G	Cont	No	T2	IIIB	No	R	F-T	A	No	15.19.6
Furfuryl alcohol	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	No	
Glutaraldehyde solutions (50% or less)	Y	S/P	3	2G	Open	No	No	NF	O	No	No	No	No	15.19.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j'''	k	l	n	o
Glycerol 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, 16.2.9
Glyoxal solution (40% or less)	Y	P	3	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.9
Glyphosate solution (not containing surfactant)	Y	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.9
Groundnut oil (containing less than 4% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
													D
Heptane (all isomers)	X	P	2	2G	Cont	No		No	R	F	A		15.19.6, 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-Hexadecyl naphthalene / 1,4-bis(hexadecyl)naphthalene mixture	Y	P	2	2G	Open	No		Yes	O	No	AB	No	15.19.6, 16.2.6
Hexamethylenediamine adipate (50% in water)	Z	P	3	2G	Open	No		Yes	O	No	A	No	
Hexamethylenediamine (molten)	Y	S/P	2	2G	Cont	No		Yes	C	T	C	Yes	15.12, 15.17, 15.18, 15.19.6, 16.2.9
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	TI	III B	Yes	C	T	A,	Yes 15.12, 15.17, 15.16.2, 15.18, 15.19
													C(b),
													D
Hexamethylene glycol	Z	P	3	2G	Open	No		Yes	O	No	A	No	
Hexamethylenimine	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		15.19.6
1,6-Hexanediol, distillation overheads	Y	S/P	3	2G	Cont	No	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.9
													D
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, 15.19.6
2-Hydroxyethyl acrylate	Y	S/P	2	2G	Cont	No		Yes	C	T	A	No	15.12, 15.13, 15.19.6, 16.6.1, 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	
Isoamyl alcohol	Z	P	3	2G	Cont	No		No	R	F	AB	No	

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o	
Isobutyl alcohol	Z	P	3	2G	Cont	No	No	No	R	F	AB	No		
Isobutyl formate	Z	P	3	2G	Cont	No	No	No	R	F	AB	No		
Isobutyl methacrylate	Z	S/P	3	2G	Cont	No	IIA	No	C	F-T	BD	Yes	15.12, 15.13, 15.17, 15.19, 16.6.1, 16.6.2	
Isophorone	Y	S/P	3	2G	Cont	No		Yes	R	No	A	No		
Isophoronediamine	Y	S/P	3	2G	Cont	No		Yes	R	T	A	No	16.2.9	
Isophorone diisocyanate	X	S/P	2	2G	Cont	Dry		Yes	C	T	ABD	No	15.12, 15.16.2, 15.17, 15.19.6	
Isoprene	Y	S/P	3	2G	Cont	No	T3	IIIB	No	R	F	B	No	15.13, 15.14, 15.19.6, 16.6.1, 16.6.2
Isopropanolamine	Y	S/P	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	No	16.2.9, 15.19.6, 16.2.6
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, 15.19
Isopropylcyclohexane	Y	P	2	2G	Cont	No		No	R	F	A	No	15.19.6, 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	ACD	Yes	15.1, 15.12, 15.17, 15.18, 15.19, 16.6.1, 16.2.2, 16.6.3	
Lard (containing less than 1% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9	
Lauric acid	X	P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.6, 16.2.9	
Linsed oil (containing less than 2% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6	
Liquid chemical wastes	X	S/P	2	2G	Cont	No		No	C	F-T	A	E	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	16.2.6, 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		
Maleic anhydride	Y	S/P	3	2G	Cont	No		Yes	R	No	A, No	16.2.9		
Mercaptobenzothiazol, sodium salt solution	X	S/P	2	2G	Open	No		NF	O	No	No	No	15.19.6, 16.2.9	
Mesityl oxide	Z	S/P	3	2G	Cont	No	T2	IIIB	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, 16.2.9	
Methacrylic acid	Y	S/P	3	2G	Cont	No		Yes	R	T	A	No	15.13, 16.6.1, 15.19.6, 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, 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	
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-methyl ethyl)-2-ethyl-6-methyl chloroacetamide	X	P	1	2G	Open	No		Yes	O	No	A	No	15.19, 16.2.6	

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
Methyl acetate	Z	P	3	2G	Cont	No	No	No	R	F	A	No	
Methyl acetoacetate	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Methyl acrylate	Y	S/P	2	2G	Cont	No	T1	IIIB	No	R	F-T	A	Yes 15.13, 15.19.6, 16.6.1, 16.6.2
Methyl alcohol	Y	P	3	2G	Cont	No	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	ACD	Yes	15.12, 15.17, 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, 16.2.9	
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	
Methylcyclopentadienyl manganese tricarbonyl	X	S/P	1	1G	Cont	No	-	-	Yes	C	T	ABC	Yes 15.12, 15.18, 15.19, 16.2.9
													D
Methyl diethanolamine	Y	S/P	3	2G	Open	No	No	Yes	O	No	A	No	16.2.6
2-Methyl-6-ethyl aniline	Y	S/P	3	2G	Open	No	No	Yes	O	No	AD	No	
Methyl ethyl ketone	Z	P	3	2G	Cont	No	No	No	R	F	A	No	
2-Methyl-5-ethyl pyridine	Y	S/P	3	2G	Open	No	No	IIA	Yes	O	No	AD	No 15.19.6
Methyl formate	Z	S/P	2	2G	Cont	No	No	No	R	F-T	A	Yes	15.12, 15.14, 15.19
2-Methyl-2-hydroxy-3-butyne	Z	S/P	3	2G	Cont	No	No	IIA	No	R	F-T	ABD	15.19.6, 16.2.9
Methyl isobutyl ketone	Z	P	3	2G	Cont	No	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, 16.6.1, 16.6.2
3-Methyl-3-methoxybutanol	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Methyl naphthalene (molen)	X	S/P	2	2G	Cont	No	No	Yes	R	No	AD	No	15.19.6
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	
4-Methylpyridine	Z	S/P	2	2G	Cont	No	No	C	F-T	A	No	15.12.3, 15.19, 16.2.9	
N-Methyl-2-pyrrolidone	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	15.19.6
Methyl salicylate	Y	P	3	2G	Open	No	No	Yes	O	No	A	No	15.19.6
alpha-Methylstyrene	Y	S/P	2	2G	Cont	No	T1	IIIB	No	R	F-T	A,D(j)	No 15.13, 15.19.6, 16.6.1, 16.6.2

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
3-(methylthio)propionaldehyde	Y	S/P	2	2G	Cont	No	T3	IIA	Yes	C	T	BC	Yes 15.12, 15.17, 15.19
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, 15.12, 15.18, 15.19
Naphthalene (molten)	X	S/P	2	2G	Cont	No	T1	IIA	Yes	R	No	AD	No 15.19.6, 16.2.9
Neodecanoic acid	Y	P	2	2G	Open	No			Yes	O	No	A	No
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, 15.17, 15.19
Nitric acid (70% and over)	Y	S/P	2	2G	Cont	No			NF	C	T	No	Yes 15.11, 15.19
Nitric acid (less than 70%)	Y	S/P	2	2G	Cont	No			NF	R	T	No	Yes 15.11, 15.19
Nitrietric 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, 16.2.9
Nitroethane	Y	S/P	3	2G	Cont	No		IIIB	No	R	F-T	A(0)	No 15.19.6, 16.6.1, 16.6.2, 16.6.4
Nitroethane(80%)/ Nitropropane(20%)	Y	S/P	3	2G	Cont	No		IIIB	No	R	F-T	A(0)	No 15.19.6, 16.6.1, 16.6.2, 16.6.3
o-Nitrophenol (molten)	Y	S/P	2	2G	Cont	No			Yes	C	T	AD	No 15.12, 15.19.6, 16.2.6, 16.2.9
l- or 2-Nitropropane	Y	S/P	3	2G	Cont	No	T2	IIIB	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(0)	No 15.19.6
Nonane (all isomers)	X	P	2	2G	Cont	No			No	R	F	BC	15.19.6
Nonanoic acid (all isomers)	Y	P	3	2G	Open	No			Yes	O	No	AB	No 15.19.6, 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, 16.2.9
Nonylphenol	X	P	1	2G	Open	No			Yes	O	No	A	No 15.19, 16.2.6, 16.2.9
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, 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	No	A	No 15.19, 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, 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	No	A	No 15.19, 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, 16.2.6, 16.2.9
Noxious liquid, F, (6) n.o.s. (trade name ..., contains ...) ST2, Cat. Y	Y	P	2	2G	Cont	No	T3	IIA	No	R	No	A	No 15.19, 16.2.6, 16.2.9
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, 16.2.6, 16.2.9
Noxious liquid, F, (8) n.o.s. (trade name ..., contains ...) ST3, Cat. Y	Y	P	3	2G	Cont	No	T3	IIA	No	R	No	A	No 15.19, 16.2.6, 16.2.9
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	No	A	No
Octane (all isomers)	X	P	2	2G	Cont	No			No	R	F	A	15.19.6
Octanoic acid (all isomers)	Z	P	3	2G	Open	No			Yes	O	No	AB	No

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
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
Octyl aldehydes	Y	P	2	2G	Cont	No	-	No	R	F	A	No	15.19.6, 16.2.9
Olefin-Alkyl ester copolymer (molecular weight 2000+)	Y	P	2	2G	Open	No	-	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Olefins (C13+, all isomers)	Y	P	2	2G	Open	No	-	Yes	O	No	AB	No	15.19.6, 16.2.9
Oleic acid	Y	P	2	2G	Open	No	-	Yes	O	No	AB	No	15.19.6, 16.2.9
Oleum	Y	S/P	2	2G	Cont	No	-	NF	C	T	No	Yes	15.11.2 to 15.11.8, 15.12.1, 15.16.2, 15.17, 15.19, 16.2.6
Olive oil (containing less than 3.3% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Palm kernel oil (containing less than 5% free fatty acids)	Y	NA	2(k)	2G	Open	No	T3	Yes	Open	No	AB	No	15.19.6, 16.2.6, 16.2.9
Palm oil (containing less than 5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Palm olein (containing less than 5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Palm stearin (containing less than 5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Paraffin wax	Y	P	2	2G	Open	No	-	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Paraldehyde	Z	S/P	3	2G	Cont	No	T3	No	R	F	A	No	15.19.6, 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
Pentachloroethane	Y	S/P	2	2G	Cont	No	-	NF	R	T	No	No	15.12, 15.17, 15.19.6
1,3-Pentadiene	Y	S/P	3	2G	Cont	No	-	No	R	F-T	AB	No	15.13, 15.19.6, 16.6.1, 16.6.2, 16.6.3
Pentane (all isomers)	Y	P	3	2G	Cont	No	-	No	R	F	A	No	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
Pentene (all isomers)	Y	P	3	2G	Cont	No	-	No	R	F	A	No	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	-	No	R	F	A	No	15.12.1, 15.12.2, 15.19.6
Petrolatum	Z	P	3	2G	Open	No	-	Yes	O	No	AB	No	
Phenol	Y	S/P	2	2G	Cont	No	TI	Yes	C	T	A	No	15.12, 15.19, 16.2.9
1-Phenyl-1-xylyl ethane	Y	P	3	2G	Open	No	-	Yes	O	No	AB	No	
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, 16.2.9
Phosphorous, yellow or white	X	S/P	1	1G	Cont	Pad+(ven t or inert)	-	No(c)	C	No	C	Yes	15.7, 15.19, 16.2.9
Phthalic anhydride (molten)	Y	S/P	2	2G	Cont	No	TI	Yes	R	No	AD	No	16.2.9, 15.19.6, 16.2.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
alpha-Pinene	X	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
beta-Pinene	X	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Pine oil	X	P	2	2G	Open	No	No	Yes	O	No	A	No	16.2.6, 16.2.9
Polyalkyl (C18-C22) acrylate in Xylene	Y	P	3	2G	Cont	No	No	No	R	F	A	No	15.19.6, 16.2.6, 16.2.9
Polyalkyl (C10-C20) methacrylate	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Poly(2+)cyclic aromatics	X	P	1	2G	Cont	No	No	Yes	R	No	AD	No	15.19, 16.2.6, 16.2.9
Polyethylene glycol	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Polyethylene glycol dimethyl ether	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Polyferric sulphate solution	Y	S/P	3	2G	Open	No	No	NF	O	No	No	No	
Polyisobuteneamine in aliphatic (C10-C14) solvent	Y	P	3	2G	Open	No	T3	IIA	Yes	O	No	A	No
Polyisobutenyl anhydride adduct	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
Poly(4+)isobutylene	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.9
Polyolefin amide alkeneamine (C17+)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6
Polyolefin amide alkeneamine borate (C28-C250)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Polyolefinamine (C28-C250)	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	16.2.9
Polyolefinamine in alkyl (C2-C4) benzenes	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6, 16.2.6, 16.2.9
Polyolefinamine in aromatic solvent	Y	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6, 16.2.6, 16.2.9
Polyolefin anhydride	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Polyolefin ester (C28-C250)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Polyolefin phenolic amine (C28-C250)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	15.19.6, 16.2.6, 16.2.9
Polyolefin phosphorosulphide, barium derivative (C28-C250)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	16.2.6, 16.2.9
Poly(20)oxyethylene sorbitan monooleate	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.6, 16.2.9
Polypropylene glycol	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Polysiloxane	Y	P	3	2G	Cont	No	No	No	R	F	AB	No	15.19.6, 16.2.9
Potassium hydroxide solution	Y	S/P	3	2G	Open	No	No	NF	O	No	No	No	15.19.6
Potassium oleate	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.6, 16.2.9
Potassium thiosulphate (50% or less)	Y	P	3	2G	Open	No	No	NF	O	No	No	No	16.2.9
n-Propanolamine	Y	S/P	3	2G	Open	No	No	Yes	O	No	AD	No	16.2.9, 15.19.6
beta-Propiolactone	Y	S/P	2	2G	Cont	No	No	IIA	Yes	R	T	A	No
Propionaldehyde	Y	S/P	3	2G	Cont	No	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
Propionic anhydride	Y	S/P	3	2G	Cont	No	T2	IIA	Yes	R	T	A	No
													15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j'''	k	l	n	o
Propionitrile	Y	S/P	2	1G	Cont	No	T1	IIIB	No	C	F-T	AD	Yes 15.12, 15.17, 15.18, 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
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	IIIB	No	C	F-T	AC	No 15.8, 15.12.1, 15.14, 15.19
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	2	2G	Cont	No	T1	IIA	No	R	F	A	No 15.19.6
Repeeed oil (low erucic acid, containing less than 4% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	-	Yes	Open	No	ABC	No 15.19.6, 16.2.6, 16.2.9
Rosin	Y	P	2	2G	Open	No			Yes	O	No	A	No 15.19.6, 16.2.6, 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, 16.2.6, 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, 15.19.6, 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
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution	Z	P	3	2G	Open	No			NF	O	No	No	No 15.19.6, 16.2.9
Sodium hydrogen sulphite solution (45% or less)	Z	S/P	3	2G	Open	No			NF	O	No	No	No 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, 15.17, 15.19, 16.6.1, 16.6.2, 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, 16.2.9
Sodium hydroxide solution	Y	S/P	3	2G	Open	No			NF	O	No	No	No 16.2.6, 16.2.9
Sodium hypochlorite solution (15% or less)	Y	S/P	2	2G	Cont	No	-	-	-	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, 16.2.9
Sodium silicate solution	Y	P	3	2G	Open	No			NF	O	No	No	No 16.2.9
Sodium sulphide solution (15% or less)	Y	S/P	3	2G	Cont	No			NF	C	T	No	No 15.19.6, 16.2.9
Sodium sulphite solution (25% or less)	Y	P	3	2G	Open	No			NF	O	No	No	No 15.19.6, 16.2.9
Sodium thiocyanate solution (56% or less)	Y	P	3	2G	Open	No			Yes	O	No	No	No 15.19.6, 16.2.9

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o	
														Y
Soyabean oil (containing less than 0.5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6
												D		
Sulphoane	Y	P	3	2G	Open	No			Yes	O	No	A	No	15.19.6, 16.2.9
Sulphonated polyacrylate solution	Z	P	3	2G	Cont	No			No	R	F	A	No	
Sulphur (molten)	Z	S	3	1G	Open	Vent or pad (gas)	T3		Yes	O	F-T	No	No	15.10, 16.2.9
Sulphuric acid	Y	S/P	3	2G	Open	No			NF	O	No	No	No	15.11, 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, 15.19.6
Sulphurized fat (C14-C20)	Z	P	3	2G	Open	No			Yes	O	No	AB	No	
Sunflowerseed oil (containing less than 7% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6
												D		
Tallow (containing less than 15% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
												D		
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	
Tetrahydrofuran	Z	S	3	2G	Cont	No	T3	IIIB	No	R	F-T	A	No	15.19.6
Tetrahydronaphthalene	Y	P	2	2G	Open	No			Yes	O	No	A	No	
Tetramethylbenzene (all isomers)	X	P	2	2G	Open	No			Yes	O	No	A	No	16.2.9
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, 16.2.9, 16.2.6
Toluene diisocyanate	Y	S/P	2	2G	Cont	Dry	TI	IIIA	Yes	C	F-T	A,	Yes	15.12, 15.16.2, 15.17, 15.19, 16.2.9
												C(b),		
												D		
o-Toluidine	Y	S/P	2	2G	Cont	No			Yes	C	T	A	No	15.12, 15.17, 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	ACD	Yes	15.12.1, 15.17, 15.19, 16.2.9, 16.2.6
1,2,4-Trichlorobenzene	X	S/P	1	2G	Cont	No			Yes	R	T	AB	No	15.19, 16.2.9
1,1,1-Trichloroethane	Y	P	3	2G	Open	No			Yes	O	No	A	No	
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	IIIA	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	ABD	No	15.12, 15.17, 15.19
1,1,2-Trichloro-1,2,2-Trifluoroethane	Y	P	2	2G	Open	No			NF	O	No	No	No	
Tricresyl phosphate (containing 1% or more ortho-isomer)	Y	S/P	1	2G	Cont	No	T2	IIIA	Yes	C	No	AB	No	15.12.3, 15.19, 16.2.6
Tridecane	Y	P	2	2G	Open	No			Yes	O	No	AB	No	15.19.6

Chapter 17

a	c	d	e	f	g	h	i'	i''	j	k	l	n	o
Tridecanoic acid	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.6, 16.2.9
Tridecyl acetate	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
Triethanolamine	Z	S/P	3	2G	Open	No	IIA	Yes	O	No	A	No	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	No	Yes	O	No	A	No	15.19.6
Triethylenetetramine	Y	S/P	2	2G	Open	No	T2 IIA	Yes	O	No	A	No	
Triethyl phosphate	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Triethylphosphite	Z	S/P	3	2G	Cont	No	No	No	R	F-T	AB	No	15.12.1, 15.19.6, 16.2.9
Trisopropanolamine	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Triisopropylated phenyl phosphates (containing less than 1% ortho-isomer)	X	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.6
Trimethylacetic acid	Y	S/P	3	2G	Cont	No	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, 16.2.6, 16.2.9
Trimethylamine solution (30% or less)	Z	S/P	2	2G	Cont	No	No	No	C	F-T	AC	Yes	15.12, 15.14, 15.19, 16.2.9
Trimethylbenzene (all isomers)	X	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	
1,3,5-Trioxane	Y	S/P	3	2G	Cont	No	No	No	R	F	AD	No	15.19.6, 16.2.9
Tripropylene glycol	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Trixylyl phosphate	X	P	2	2G	Open	No	No	Yes	O	No	A	No	
Tung oil (containing less than 2.5% free fatty acids)	Y	NA	2(k)	2G	Open	No	-	Yes	Open	No	ABC	No	15.19.6, 16.2.6, 16.2.9
Turpentine	X	P	2	2G	Cont	No	No	No	R	F	A	No	15.19.6
Undecanoic acid	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	16.2.6, 16.2.9
1-Undecene	X	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6
Undecyl alcohol	X	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6, 16.2.9
Urea/Ammonium nitrate solution	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Urea/Ammonium nitrate solution (containing aqua ammonia)	Z	S/P	3	2G	Cont	No	No	NF	R	T	A	No	16.2.9
Urea/Ammonium phosphate solution	Y	P	2	2G	Open	No	No	Yes	O	No	A	No	15.19.6
Urea solution	Z	P	3	2G	Open	No	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 protein solution (hydrolysed)	Z	P	3	2G	Open	No	No	Yes	O	No	A	No	
Vinyl acetate	Y	S/P	3	2G	Cont	No	T2 IIA	No	R	F	A	No	15.13, 15.19.6, 16.6.1, 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, 15.19, 16.6.1, 16.6.2
Vinylidene chloride	Y	S/P	2	2G	Cont	Inert	T2 IIA	No	R	F-T	B	Yes	15.13, 15.14, 15.19.6, 16.6.1, 16.6.2

Chapter 17

a	c	d	e	f	g	h	i'	i''	i'''	j	k	l	n	o
Vinyl neodecanoate	Y	S/P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.13, 15.19.6, 16.6.1, 16.6.2
Vinyltoluene	Y	S/P	2	2G	Cont	No	IIA	No	R	F	AB	No	No	15.13, 15.19.6, 16.6.1, 16.6.2
Waxes (Should be Petrolatum, purified)	Z	P	3	2G	Open	No	No	Yes	O	No	AB	No	No	
Xylenes	Y	P	2	2G	Cont	No	No	No	R	F	A	No	No	15.19.6 (b)
Xylenol	Y	S/P	3	2G	Open	No	IIA	Yes	O	No	AB	No	No	15.19.6, 16.2.9
Zinc alkaryl dithiophosphate (C7-C16)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	16.2.6, 16.2.9
Zinc alkenyl carboxamide	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6, 16.2.6
Zinc alkyl dithiophosphate (C3-C14)	Y	P	2	2G	Open	No	No	Yes	O	No	AB	No	No	15.19.6, 16.2.6

Chapter 18

Product name	Pollution Category
Acetone	Z
Alcoholic beverages, n.o.s.	Z
Apple juice	OS
n-Butyl alcohol	Z
sec-Butyl alcohol	Z
Clay slurry	OS
Coal slurry	OS
Diethylene glycol	Z
Ethyl alcohol	Z
Ethylene carbonate	Z
Glucose solution	OS
Glycerine	Z
Glycerol monooleate	Z
Hexamethylenetetramine solutions	Z
Hexylene glycol	Z
Isopropyl alcohol	Z
Kaolin slurry	OS
Magnesium hydroxide slurry	Z
N-Methylglucamine solution (70% or less)	Z
Methyl propyl ketone	Z
Molasses	OS
Noxious liquid, (11) n.o.s. (trade name, contains) Cat. Z	Z
Non-noxious liquid, (12) n.o.s. (trade name, contains) Cat. OS	OS
Polyaluminium chloride solution	Z
Potassium formate solutions	Z
Propylene carbonate	Z
Propylene glycol	Z

Chapter 18

Product name	Pollution Category
Sodium acetate solutions	Z
Sodium sulphate solutions	Z
Tetraethyl silicate monomer/oligomer (20% in ethanol)	Z
Triethylene glycol	Z
Water	OS