

4 ALBERT EMBANKMENT
LONDON SE1 7SR
Telephone: +44 (0)20 7735 7611 Fax: +44 (0)20 7587 3210

MEPC.2/Circ.27
1 December 2021

PROVISIONAL CATEGORIZATION OF LIQUID SUBSTANCES IN ACCORDANCE WITH MARPOL ANNEX II AND THE IBC CODE

1 Introduction

This circular is issued in accordance with regulation 6.3 of MARPOL Annex II, replacing all previously issued circulars under this title.

2 Lists of annexes

2.1 The circular includes the following annexes:

- Annex 1:** List 1: Pure or technically pure products and mixtures assessed as a whole
- Annex 2:** List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO
- Annex 3:** List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards
- Annex 4:** List 4: Pollutant only mixtures containing one or more components, forming more than 1% by weight of the mixture, which have not yet been assessed by IMO
- Annex 5:** List 5: Substances only used as components in trade-named mixtures
- Annex 6:** Synonyms for vegetable oils
- Annex 7:** List of country abbreviations
- Annex 8:** Tripartite agreement contact addresses
- Annex 9:** Manufacturers authorized to conduct pollutant only assessments by calculation
- Annex 10:** Cargo tank cleaning additives
- Annex 11:** Biofuels recognized under the 2019 Guidelines for the carriage of blends of biofuels and MARPOL Annex I cargoes

Annex 12: Energy-rich fuels subject to Annex I of MARPOL

2.2 Annexes 1 to 5 set out lists of Noxious Liquid Substances (NLS) (or products, as they are referred to hereinafter), by category, with associated carriage requirements, as assessed and confirmed by the ESPH Working Group of the PPR Sub-Committee, or as established under tripartite agreements and communicated to the Organization, in accordance with regulation 6.3 of MARPOL Annex II. Annexes 6 to 8, 11 and 12 are intended to facilitate the reporting of tripartite agreements and the interpretation of abbreviations used in annexes 1 to 5.

3 Notes related to the annexes***Product lists (annexes 1 to 5)***

3.1 The majority of products contained within this circular are trade-named substances. Since trade names are not translated, these products have been recorded exactly as communicated to the Organization and the lists are issued in English only.

3.2 The present circular incorporates the following amendments to the information set out in the previous circular (i.e. MEPC.2/Circ.26):

- .1 any new products, trade-named mixtures and cleaning additives that have been assessed by the ESPH Working Group during the year;
- .2 amendments to existing product entries included in the product lists; and
- .3 new product entries covered by any new tripartite agreements communicated to the Organization since MEPC.2/Circ.26.

3.3 Any amendments made to the product lists (annexes 1 to 5) since the issue of MEPC.2/Circ.26 are identified by shading of the field in which a change has been made. In accordance with PPR.1/Circ.10, the expiry date for products listed in annex 2 and 3 that were assessed prior to ESPH 25 (14 to 18 October 2019) has been adjusted to 31 December 2025.

3.4 In certain cases, products may have been deleted from the product lists due to the following reasons:

- .1 changes have been made to the product names (trade-named products);
- .2 withdrawal of products that are no longer manufactured or shipped (trade-named products); or
- .3 entries that were covered by tripartite agreements and have reached their expiry dates, but which have not been assessed during the period specified in the tripartite agreement.

3.5 Notwithstanding the above, if a tripartite agreement expires, or there is a change in carriage requirements for a product from the preceding to the new circular, while a shipment is in transit, then the carriage requirements at time of loading will apply.

3.6 When a cargo is loaded prior to the entry-into-force date and unloaded after the entry-into-force date of an amendment to the IBC Code, the relevant provisions of the IBC Code at the time of loading should be applicable until the cargo has been unloaded.

3.7 Products marked with an asterisk (*) indicate that deviations from the normal assignment criteria, as set out in chapter 21 of the IBC Code, were used for the assignment of certain carriage requirements, based on expert judgement.

3.8 The definition of list 1 products, as contained in the present circular, corresponds to the definition of products contained in chapters 17 and 18 of the IBC Code. Products included in this list are either covered by a tripartite agreement, with an expiry date, i.e. have not yet been assessed nor had their carriage requirements confirmed, or have had changes made to their carriage requirements subsequent to the latest set of amendments to the IBC Code. Such products will be duly incorporated into the IBC Code when next amended and consequently removed from list 1. The remaining product lists (annexes 2 to 5) do not correspond to lists contained within the IBC Code and entries contained in these lists will remain in the circular, subject to the provisions of paragraph 3.3 above.

3.9 For products included in list 1 that have amended carriage requirements subsequent to the latest set of amendments to the IBC Code, the ESPH Working Group will decide whether or not to add a qualifier to the product name. The use of a qualifier is intended to permit shipment of the reassessed product with the updated carriage requirements, as listed in the MEPC.2/Circular prior to the entry into force of the next amendment to the IBC Code.

3.10 If it is agreed that a qualifier is appropriate, then the product name included in this circular will be the IBC Code product name followed by "(amended)", e.g. Ethyl tert-butyl ether (amended), which will be the new and provisional product name.

3.11 The addition of a qualifier to the product name means that the reassessed product with the new and provisional product name will be a separate product in respect of the IBC Code, even if the chemical composition of the product is the same. Where a product with a qualifier is to be shipped, the product should be included in the addendum to the Certificate.

3.12 Any footnotes to entries in list 1 (found in parentheses following the product entry) of this circular are defined at the end of chapter 17 of the IBC Code.

Country and territory codes (annex 7)

3.13 The list of country and territory abbreviations is that used in the Global Integrated Shipping Information System (GISIS), the system used by the Organization as the repository for all product information received and decisions taken regarding the assignment of hazard profiles (by the GESAMP/EHS Working Group) and carriage requirements (by the ESPH Working Group), for each product.

3.14 These codes are based on the standard UN/LOCODE system, a geographic code scheme developed and maintained by the United Nations Economic Commission for Europe (UNECE), a United Nations body. The codes are included in annex 7. Part 1 of annex 7 presents entries by code order, while part 2 gives a listing by country/territory order.

Cargo tank cleaning additives (annex 10)

3.15 MARPOL Annex II sets out limits for the discharge of NLS and includes restrictions on the types of cleaning additives that can be used in tank washing operations.

3.16 All cleaning additives set out in this circular (annex 10) have been evaluated by the ESPH Working Group, in accordance with the provisions set out in the *Revised tank cleaning additives guidance note and reporting form* (MEPC.1/Circ.590), and have been found to meet the requirements of regulation 13.5.2 of MARPOL Annex II.

3.17 Where products or their solutions appearing in chapter 17 or 18 of the IBC Code or in list 1 of this circular are used as washing media, their discharge shall be governed by regulation 13.5.1 of MARPOL Annex II. As such they are not required to be listed in annex 10 of this circular.

Biofuels used in biofuel/MARPOL Annex I blends (annex 11)

3.18 Annex 11 sets out the list of approved biofuels, as covered by the *2019 Guidelines for the carriage of blends of biofuels and MARPOL Annex I cargoes* (MSC-MEPC.2/Circ.17).

Energy-rich fuels subject to Annex I of MARPOL (annex 12)

3.19 Annex 12 sets out the list of recognized energy-rich fuels in accordance with the *Guidelines for the carriage of energy-rich fuels and their blends* (MEPC.1/Circ.879).

4 Notification of new entries under tripartite agreements

4.1 The *Guidelines for the provisional assessment of liquids transported in bulk* are set out in MEPC.1/Circ.512/Rev.1. When notifying the Organization of any provisional assessment made under a tripartite agreement, Administrations are requested to:

- .1 specify the list in which the product entry should be entered; and
- .2 provide all relevant data to be included in the circular.

4.2 In addition, to further assist countries in determining the carriage requirements for products in bulk, a summary of "References to related information and recommendations for ascertaining the carriage requirements for products shipped in bulk" has been published on the IMO website and can be accessed at:

<https://www.imo.org/en/OurWork/Environment/Pages/TripartiteAgreements.aspx>

by following the link under "Related documents" in the right-hand column of the page.

4.3 As the majority of products communicated to the Organization are classified by the "calculation method" (see MEPC.1/Circ.512/Rev.1) and are candidates for inclusion in list 2, it is particularly important to provide the information to the Organization in a format that will facilitate efficient and accurate transfer to the database used to generate the various lists included in this circular.

4.4 For list 2 products, the preferred method is to send the information in the following format:

Reporting country:	
Manufacturer:	
Trade name:	
List number:	
Contains name:	
Pollution category (Cat):	
Ship type (ST):	
n.o.s. Number:	
Melting point (°C) (Mpt):	
Flashpoint (c.c., °C) (Fpt):	
Viscosity @ 20°C (mPa.s) (V ₂₀):	

4.5 For products to be included in lists 1, 3 or 4, the format set out in appendix 6 of the annex to MEPC.1/Circ.512/Rev.1 is preferred.

4.6 The receipt of incomplete data for a product will result in the submission being delayed, while the application is returned to the originator for further review.

4.7 While stressing the importance of correct data being supplied to the Organization, it should be noted that, in particular, when proposing a product for lists 2 or 4, the component with the greatest pollution potential should be specified following the word "Contains", in the shipping name. This is referred to as the "contains name". Such a component is that with the highest value obtained using the calculation method. In the event of there being more than one component with equivalent highest scores, discretion may be used in deciding whether one or both components should be identified in the "contains name". The name used for the component(s) should be that which appears in either chapters 17 or 18 of the IBC Code or in lists 1 or 5 of this circular.

4.8 It should also be noted that any NLS offered for bulk shipment shall be indicated in the shipping document by the product name under which it is listed in chapter 17 or 18 of the IBC Code or the latest edition of this circular, or under which it has been provisionally assessed by tripartite agreement. In this respect, special attention should be given to BLG.1/Circ.17 regarding the use of the proper shipping name in offering bulk liquid cargoes for shipment and to BLG.1/Circ.25, which deals with the use of specific product names rather than generic entries, when both options are available to describe a bulk liquid cargo.

4.9 When shipping a pollution only mixture (list 2 or list 4 substances), the appropriate n.o.s. entry in the IBC Code, together with the trade name and "product contains" information, would constitute the proper shipping name. For example, if the trade name is IMO 1234 and it contains "Calcium long-chain alkyl salicylate (C13+)" as the component with the greatest pollution potential, then the correct product name could be:

Noxious liquid, N.F., (5) n.o.s. (IMO 1234 contains Calcium long-chain alkyl salicylate (C13+)), ST 2, Cat Y

4.10 The Master of a type 2 ship certified to carry n.o.s. products would then know that (s)he can accept the cargo without concern for fire, toxicity and other safety hazards and that, in the event of an accidental spill, (s)he could report the name of the substance responsible for the pollution to the coastal State authorities.

4.11 When shipping (trade-named) mixtures, i.e. trade-named mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards (list 3 substances), the trade name and "product contains" information would form the proper shipping name. For example, if the trade name is XYZ 4567 and it contains "hydrochloric acid" as the component with the greatest pollution or safety potential, then the correct product name should be:

- XYZ 4567 (contains Hydrochloric acid); or
- XYZ 4567 contains Hydrochloric acid.

5 Tripartite agreement contact addresses

5.1 In accordance with resolution MEPC.109(49) related to tripartite agreements, Administrations that have not informed the Organization of their latest contact details should be deemed to have accepted the tripartite agreements, while other contact points should still follow regulation 6.3 of MARPOL Annex II.

5.2 Administrations are therefore encouraged to verify their respective contact information, as included in annex 8 of this circular, and correct any errors or omissions.

5.3 In this respect, it should be noted that tripartite agreement contact details are available through GISIS (<https://gisis.imo.org>) and that any required amendments may be made directly in the database by the Administration concerned.

TRIPARTITE AGREEMENTS
List 1: Pure or technically pure products and mixtures assessed as a whole

Product Name	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O
Alkyl (C3-C11) benzenes with phenol-formaldehyde/acrylate polymers (33% or less)		All countries		None	X	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6
Alkylphenols (C10-C18, C12 rich)		All countries		None	X	S/P	1	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6
Brassica Carinata oil	FIN	DNK, FRA, ITA, NLD, SGP, SWE, USA	13/02/20	31/12/23	Y	S/P	2(k)	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7, 16.2.9
Calcium chloride solution (greater than 35%)	NLD	BHS, BRB, BEL, CAN, CYM, HRV, CYP, DNK, FIN, DEU, LBR, MLT, MHL, NOR, PAN, PRT, SGP, SWE, TUR, GBR, USA	09/03/21	31/12/24	Z	S	3	2G	Open	No	-	-	NF	O	No	No	No	15.19.6
Calcium chloride solution (less than 35%) (*)		All countries		None	Z	S	3	2G	Open	No	-	-	NF	R	No	No	No	15.19.6
Choline hydroxide solution		All countries		None	Z	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate		All countries		None	Z	P	3	2G	Open	No	-	-	NF	O	No	No	No	16.2.9
Creosote (coal tar) (amended)		All countries		31/12/23	X	S/P	2	2G	Cont	No	T2	IIA	Yes	C	T	AD	No	15.12, 15.17, 15.19.6, 16.2.6, 16.2.9
Creosote (coal tar) (C8-C22, MW 116-278)		All countries		None	X	S/P	2	2G	Cont	No	T2	IIA	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6, 16.2.6, 16.2.9
2,4-Dichlorophenoxyacetic acid, choline salt solution		All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	AC	No	15.19.6, 16.2.9
Ethyl tert-butyl ether (amended)		All countries		None	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	F	ABC	No	15.19.6
Ethylene glycol monoalkyl ethers (31% or less)/Ethylene glycol (25% or less)/Ethoxylated alcohols (15% or less)/Ethoxylated imidazolines (10% or less)/2-mercaptoethanol (5% or less) solution		All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19
Fish by-products (fresh) (*)		All countries		None	Z		NA											
Fish silage (containing 3% or less formic acid with antioxidant)		All countries		None	Z		NA											
1,3,5-Hexahydrotriethanol-1,3,5-triazine solution		All countries		None	Y	S/P	2	2G	Open	No	-	-	NF	R	No	No	No	15.19.6
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)		All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19
Isoalkanes (C16-C18)		All countries		None	Y	P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6

TRIPARTITE AGREEMENTS

List 1: Pure or technically pure products and mixtures assessed as a whole

Product Name	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O
Maleic acid/Acrylic acid/Ethenylsulphonic acid/Ethenylphosphonic acid polymer, sodium salt in aqueous/ethylene glycol solution		All countries		None	Z	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19, 16.2.9
Methyl acrylate		All countries		None	Y	S/P	3	2G	Cont	No	T1	IIB	No	C	FT	AC	No	15.12, 15.13, 15.17, 15.19, 16.6.1, 16.6.2
N,N'-Methylene-bis(5-methyloxazolidine)		All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19
Methyl methacrylate		All countries		None	Y	S/P	3	2G	Cont	No	T2	IIA	No	R	F	AC	No	15.13, 15.19.6, 16.6.1, 16.6.2
Offshore contaminated bulk liquid Treated (containing less than 0.8% of an H2S Scavenger) (o)	NOR	GBR	20/11/20	31/12/23	X	P	2	2G	Cont	No	-	-	Yes	C	No	AC	No	15.15, 15.19.6
alpha-Olefin (C12+) mixtures		All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.7, 16.2.9
Palm oil mill effluent oil		All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7, 16.2.9
Palm oil mill effluent oil fatty acid distillate		All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.7, 16.2.9
[[[(Phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less)		All countries		None	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No	15.19.6
Polyalkene sulphonic acid (C16-C18), sodium salt solution		All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6
Pyridinium, 1-(phenylmethyl)-, alkyl derivatives, chlorides (30% or less)/Ethoxylated nonylphenols (10% or less) in isopropanol (15% or less)/Methanol (3% or less) solution		All countries		None	X	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19, 16.2.6
Sodium chlorate solution (50% or less) (amended) (*)		All countries		None	Z	S/P	3	2G	Open	No	-	-	NF	R	No	No	No	15.9, 15.19, 16.2.9
Sodium chloride solution (less than 30%)		All countries		None	Z		NA											
Sodium dodecylpoly(oxyethylene) sulphate solution		All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19, 16.2.9
Sorbitol propoxylated	NLD	BEL, CYM, CHN, HKG, LBR, MLT, MHL, NOR, PAN, SAU, SGP, ESP, THA, ARE, GBR	01/06/21	31/12/24	Z	P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	
Sulphonated alkylcarboxylic acid polymer salt	GBR	NOR	14/04/21	31/12/24	Z	P	3	2G	Open	No	-	-	Yes	O	No	AC	No	
Tricyanohexane		All countries		None	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.9

TRIPARTITE AGREEMENTS

List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
ACPC22005A	6	Xylene	USA	15/08/19	31/12/25	Y	2		ChampionX
Additive ED95 102	10	Methyl tert-butyl ether	SWE	02/03/09	31/12/25	Z	3		SEKAB BioFuels & Chemicals
ALCOFREEZE BASE	11	Ethyl alcohol	USA	22/05/19	31/12/25	Z	NA		ALCOGROUP
ALFOL 610 ADE ALCOHOL	5	Decyl alcohol (all isomers)	USA	12/11/07	31/12/25	Y	2		Sasol
Articscreen bio	8	Ethyl alcohol	NLD	21/11/11	31/12/25	Y	3		Silcompa
ASH 1925	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
ASH 2636	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
ASH-H	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
ASH-M	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		Petro-SA
BE 95 SE	6	Mineral oil	FIN	14/09/09	31/12/25	Y	2		Neste
Butoxypolyglycol Basic	5	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	USA	01/05/12	31/12/25	Y	2		Dow
C9/C10 AROMATICS	4	Trimethylbenzene (all isomers)	GBR	14/05/07	31/12/25	X	2		SABIC (UK)
CAN 17	9	Calcium nitrate; Ammonium nitrate	NOR	18/04/07	31/12/25	Z	3		Yara International S. A.
CELANESE MAM BLEND	8	Dodecyl alcohol	USA	06/03/07	31/12/25	Y	3		Celanese
CFX 2000	7	Iso- and Cyclo- Alkanes (C12+)	BEL	18/09/06	31/12/25	Y	3		ExxonMobil
CFX 2100	7	Iso- and Cyclo- Alkanes (C10-C11)	BEL	18/09/06	31/12/25	Y	3		ExxonMobil
CN9	11	Calcium nitrate less than 50%; Ammonium nitrate less than 10%	NOR	18/04/07	31/12/25	Z	NA		Yara International S. A.
DenatMix	10	Methyl tert-butyl ether	SWE	02/03/09	31/12/25	Z	3		SEKAB BioFuels & Chemicals
Dibasic esters	3	Dimethyl adipate	USA	19/01/07	31/12/25	X	2		Invista
DPAS 160, KEMGUARD 269	9	Maleic anhydride sodium allylsulphonate copolymer	NOR	10/09/10	31/12/25	Z	3		Clariant Oil Services Scandinavia AS
EC6359A	7	[[[(2-hydroxyethyl)imino]dimethylene]bisphosphonic acid, sodium salt	USA	31/07/18	31/12/25	Y	3		ChampionX
EC6475A	7	Diethylenetriamine pentaacetic acid, pentapotassium salt (40% solution)	GBR	03/10/14	31/12/25	Y	3		ChampionX
EC6660A	7	Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution	GBR	03/10/14	31/12/25	Y	3		ChampionX
ECOROL 24	5	Dodecyl alcohol	JPN	10/03/06	31/12/25	Y	2		Ecogreen
ED95 Base	11	Ethyl alcohol	BRA	18/05/11	31/12/25	Z	NA		SEKAB BioFuels & Chemicals AB
EPF S20	8	Alkanes (C6-C9)	SGP	25/09/06	31/12/25	Y	3		ExxonMobil
Epikote TN 1001-X-75	4	Diphenol propane epichlorohydrin resins	NLD	02/03/06	31/12/25	X	2		Hexion Spec. Ch. BV
Escaid 110 Special Fluid	7	Iso- and Cyclo- Alkanes (C12+)	SGP	25/04/11	31/12/25	Y	3		ExxonMobil
Etamax D	10	Methyl tert-butyl ether	SWE	25/11/08	31/12/25	Z	3		SEKAB BioFuels & Chemicals
Etamax UB	11	Ethyl alcohol	SWE	29/01/08	31/12/25	Z	NA		SEKAB BioFuels & Chemicals
ETHYLOL 78	11	Ethyl alcohol	ZAF	02/01/07	31/12/25	Z	NA		SASOL
ETHYLOL 95	11	Ethyl alcohol	ZAF	12/01/07	31/12/25	Z	NA		SASOL
ETHYLOL 99	11	Ethyl alcohol	ZAF	02/01/07	31/12/25	Z	NA		SASOL
Exxal 8 Alcohol	5	Octanol (all isomers)	USA	16/10/06	31/12/25	Y	2		ExxonMobil

TRIPARTITE AGREEMENTS

List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
Exxal 9 Alcohol	5	Nonyl alcohol	NLD	19/10/06	31/12/25	Y	2		ExxonMobil
Exxal 10 Alcohol	5	Decyl alcohol (all isomers)	USA	24/11/06	31/12/25	Y	2		ExxonMobil
Exxal 13 Alcohol	5	Alcohols (C13+)	NLD	19/10/06	31/12/25	Y	2		ExxonMobil
Exxal L9 Alcohol	5	Nonyl alcohol (all isomers)	USA	16/03/07	31/12/25	Y	2		ExxonMobil
FORSA™ SCW88003 SCALE INHIBITOR	9	[[[(phosphonomethyl)imino]bis [ethylenenitri]bis (methylene)]]tetrakisphosphonic acid, ammonium salt solution 60% or less)	GBR	07/12/18	31/12/25	Z	3		Baker Hughes Limited
Frostschutz	8	Ethylene glycol	NLD	01/05/07	31/12/25	Y	3		PROCAR B.V.
Gypton SA3360	7	2-Propene-1-aminium; N,N-dimethyl-n-2-propenyl, chloride homopolymer (solution)	NOR	22/10/13	31/12/25	Y	3		ChampionX
Gypton SD250	9	Potassium carbonate solution	NOR	12/11/12	31/12/25	Z	3		ChampionX
Gypton SD250 in KCl solution	9	Potassium carbonate solution	NOR	21/11/12	31/12/25	Z	3		ChampionX
H.B.R. (Volatile Oil)	6	Cyclopentane	JPN	07/12/06	31/12/25	Y	2		H.B.R.
HDM 10 Base	7	Rapeseed oil	GBR	10/11/06	31/12/25	Y	3	High Viscosity	Alchemy Oilfield
HITEC 6561	5	Dodecene (all isomers)	USA	06/11/07	31/12/25	Y	2		Afton Chemical
HiTEC 9300	5	Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	15/04/13	31/12/25	Y	2	High Viscosity	Afton Chemical Corporation
HiTEC 9345	5	Mineral oil	USA	21/05/12	31/12/25	Y	2	High Viscosity	Afton Chemical Corporation
HiTEC 9345B	5	Mineral oil	USA	21/05/12	31/12/25	Y	2	High Viscosity	Afton Chemical Corporation
HiTEC 9345T	5	Mineral oil	USA	04/03/11	31/12/25	Y	2	High Viscosity	Afton Chemical Corporation
HYDROTREATED C5 (HTC5)	8	Pentane (all isomers)	GBR	14/05/07	31/12/25	Y	3		SABIC (UK)
Infineum D1688	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D3424	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D3434	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D1284	5	Zinc alkyl dithiophosphate (C3-C14)	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D1288	5	Zinc alkyl dithiophosphate (C3-C14)	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D1294	5	Mineral oil	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D1640	5	Mineral oil	ITA	29/02/08	31/12/25	Y	2	High Viscosity	Infineum
Infineum D1642	5	Mineral oil	ITA	27/02/07	31/12/25	Y	2	High Viscosity	Infineum
Infineum D3348	5	Mineral oil	ITA	23/11/06	31/12/25	Y	2		Infineum
Infineum D3354	5	Mineral oil	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D3356	5	Mineral oil	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum D3426	5	Mineral oil	ITA	26/10/07	31/12/25	Y	2	High Viscosity	Infineum
Infineum M7071	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2		Infineum
Infineum M7081A	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum M7089	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2		Infineum
Infineum M7090	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum

TRIPARTITE AGREEMENTS

List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
Infineum P5066	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5151	5	Mineral oil	ITA	23/11/06	31/12/25	Y	2		Infineum
Infineum P5314	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5315	5	Mineral oil	SGP	26/09/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5318	5	Mineral oil	ITA	29/02/08	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5320	5	Mineral oil	ITA	27/02/07	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5335	5	Mineral oil	SGP	05/12/07	31/12/25	Y	2	High Viscosity	Infineum
Infineum P5601	5	Mineral oil	ITA	20/09/10	31/12/25	Y	2	High Viscosity	Infineum
Infineum P6212	5	Zinc alkyl dithiophosphate (C3-C14)	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum P6213	5	Zinc alkyl dithiophosphate (C3-C14)	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Infineum P6216	5	Zinc alkyl dithiophosphate (C3-C14)	ITA	23/11/06	31/12/25	Y	2	High Viscosity	Infineum
Isopar G	7	Iso- and Cyclo- Alkanes (C10-C11)	BEL	01/09/06	31/12/25	Y	3		ExxonMobil
Isopar H	7	Iso- and Cyclo- Alkanes (C10-C11)	BEL	01/09/06	31/12/25	Y	3		ExxonMobil
Isopar L	7	Iso- and Cyclo- Alkanes (C12+)	BEL	01/09/06	31/12/25	Y	3		ExxonMobil
Isopar L (E)	7	Iso- and Cyclo- Alkanes (C12+)	BEL	16/06/14	31/12/25	Y	3		ExxonMobil
ISOPAR L AP	7	Iso- and Cyclo- Alkanes (C12+)	SGP	20/04/15	31/12/25	Y	3		ExxonMobil Chemical
Isopar M	9	Iso- and Cyclo- Alkanes (C12+)	BEL	01/09/06	31/12/25	Z	3		ExxonMobil
Isopar N	7	Iso- and Cyclo- Alkanes (C12+)	GBR	28/10/14	31/12/25	Y	3		ExxonMobil
ISO-PROPYLLOL	11	Isopropyl alcohol	ZAF	12/01/07	31/12/25	Z	NA		SASOL
KALCOL 1260	5	Dodecyl alcohol	MYS	10/11/06	31/12/25	Y	2		Fatty Chemical (MYS)
KALCOL 2465	5	Dodecyl alcohol	USA	14/06/06	31/12/25	Y	2		Fatty Chemical (MYS)
KALCOL 2470	5	Dodecyl alcohol	USA	14/06/06	31/12/25	Y	2		Fatty Chemical (MYS)
KemSweep NLP 5000	7	Iso- and Cyclo- Alkanes (C12+)	GBR	07/01/16	31/12/25	Y	3		Kemira
LINEVOL 911	3	Undecyl alcohol	USA	14/05/07	31/12/25	X	2		Shell
Lubrizol 4800R	5	Zinc alkyl dithiophosphate (C3-C14)	USA	30/09/06	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 9297	5	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	30/09/06	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 9915A	5	Zinc alkaryl dithiophosphate (C7-C16)	USA	30/09/06	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 9990A	5	Mineral oil	USA	30/09/06	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 16008	5	Mineral oil	USA	03/03/08	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 16010J	5	Mineral oil	USA	26/06/07	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 16011L	5	Mineral oil	USA	06/06/08	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol 70135	5	Mineral oil	USA	30/09/06	31/12/25	Y	2	High Viscosity	Lubrizol
Lubrizol PV1127	5	Alkenyl (C11+) amide	USA	21/07/10	31/12/25	Y	2	High Viscosity	Lubrizol
MIX 30	12	Vegetable protein solution (hydrolysed)	USA	02/03/12	31/12/25	OS		High Viscosity	Agridyne LLC

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List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
MOSSPAR 1925	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSPAR 2636	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSPAR H	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSPAR M	7	Iso- and Cyclo- Alkanes (C12+)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSPEN 10	8	Pentane (all isomers)	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSTANOL 120	8	n-Propyl alcohol	ZAF	27/12/06	31/12/25	Y	3		PetroSA
MOSSTANOL L	11	Ethyl alcohol	ZAF	27/12/06	31/12/25	Z	NA		PetroSA
MOSSTANOL P	6	Cyclopentanol	ZAF	28/01/07	31/12/25	Y	2		PetroSA
Neodol 23	5	Alcohols (C13+)	USA	15/01/07	31/12/25	Y	2		Shell
Neodol 24	5	Dodecyl alcohol	USA	21/11/08	31/12/25	Y	2		Shell
Neodol 25	5	Dodecyl alcohol	USA	01/03/07	31/12/25	Y	2		Shell
Neodol 91	3	Undecyl alcohol	USA	16/03/07	31/12/25	X	2		Shell
Neodol 135	3	Undecyl alcohol	USA	25/01/07	31/12/25	X	2	High Viscosity	Shell
NESSOL 40	6	White spirit, low (15-20%) aromatic	FIN	08/05/08	31/12/25	Y	2		Neste
NESSOL 60	5	White spirit, low (15-20%) aromatic	FIN	08/05/08	31/12/25	Y	2		Neste
NESSOL D40	8	Iso- and Cyclo- Alkanes (C10-C11)	FIN	08/05/08	31/12/25	Y	3		Neste
NESSOL D60	7	Iso- and Cyclo- Alkanes (C10-C11)	FIN	08/05/08	31/12/25	Y	3		Neste
NESSOL D80	7	Iso- and Cyclo- Alkanes (C10-C11)	FIN	08/05/08	31/12/25	Y	3		Neste
NESSOL D100	7	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	3		Neste
NESSOL D100+	7	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	3		Neste
NESSOL D110	7	Iso- and cyclo-alkanes (C12+)	FIN	26/02/20	None	Y	3		Neste
NEXBASE 3015	5	Iso- and Cyclo- Alkanes (C12+)	FIN	13/03/19	31/12/25	Y	2		Neste
NEXBASE@2002	5	Polyolefin (mw +300)	BEL	29/09/06	31/12/25	Y	2		Neste
NEXBASE@2004	5	Polyolefin (mw +300)	BEL	29/09/06	31/12/25	Y	2		Neste
NEXBASE@2006	5	Polyolefin (mw +300)	BEL	29/09/06	31/12/25	Y	2	High Viscosity	Neste
NEXBASE@2008	5	Polyolefin (mw +300)	BEL	29/09/06	31/12/25	Y	2		Neste
NEXBASE@3020	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2		Neste
NEXBASE@3030	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2		Neste
NEXBASE@3043	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2		Neste
NEXBASE@3050	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2	High Viscosity	Neste
NEXBASE@3060	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2	High Viscosity	Neste
NEXBASE@3080	5	Iso- and Cyclo- Alkanes (C12+)	FIN	08/05/08	31/12/25	Y	2	High Viscosity	Neste
NExTAME	4	Olefin mixtures (C5-C15)	FIN	15/12/16	31/12/25	X	2		Neste
Octimise G2003	5	Solvent naphtha	BEL	27/02/07	31/12/25	Y	2		Innospec

TRIPARTITE AGREEMENTS

List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

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Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
Octimise G2048	5	Alkyl (C3-C4) benzenes	BEL	23/02/10	31/12/25	Y	2		Innospec
OLOA 219M	5	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	02/03/07	31/12/25	Y	2	High Viscosity	Chevron Oronite
OLOA 219U	5	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	02/03/07	31/12/25	Y	2	High Viscosity	Chevron Oronite
OLOA 275JD	5	Mineral oil	USA	06/06/08	31/12/25	Y	2		Chevron Oronite
OLOA 1571	5	Mineral oil	USA	25/01/07	31/12/25	Y	2		Chevron Oronite
OLOA 15500	5	Mineral oil	USA	25/01/07	31/12/25	Y	2		Chevron Oronite
OLOA 48019	5	Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	01/02/11	31/12/25	Y	2	High Viscosity	Chevron Oronite S.A.S.
OLOA 49812	5	Mineral oil	USA	24/10/07	31/12/25	Y	2	High Viscosity	Chevron Oronite
OLOA 49814	5	Mineral oil	USA	24/10/07	31/12/25	Y	2	High Viscosity	Chevron Oronite
OLOA 59707	5	Mineral oil	USA	06/03/07	31/12/25	Y	2	High Viscosity	Chevron Oronite
OrePrep F-597 Frother	7	1,6-Hexanediol distillation	USA	06/03/07	31/12/25	Y	3		CYTEC
Petrinex T9	3	Naphthalene	GBR	14/05/07	31/12/25	X	2		SABIC (UK)
PHASETREAT 7623	9	Ethylene glycol monoalkyl ethers	NOR	16/10/17	31/12/25	Z	3		Clariant Oil Services Scandinavia AS
PROP BH	8	n-Propyl alcohol	ZAF	12/01/07	31/12/25	Y	3		SASOL
R-50428	7	Ethylene glycol	USA	15/05/07	31/12/25	Y	3		North American Shipbuilding
Refinery MTBE	6	Methyl tert-butyl ether	FIN	12/11/18	31/12/25	Y	2		Neste
RM 50141	4	Propylene tetramer	USA	15/01/07	31/12/25	X	2		Chevron Oronite
RM 50132	4	Propylene tetramer	USA	05/11/08	31/12/25	X	2		Chevron Oronite
RM 50142	4	Propylene tetramer	USA	03/07/06	31/12/25	X	2		Chevron Oronite
RM 50440	4	Propylene tetramer	USA	03/11/08	31/12/25	X	2		Chevron Oronite
SABUTOL	8	n-Propyl alcohol	ZAF	15/01/07	31/12/25	Y	3		SASOL
SBP 60-95	4	Hexane (all isomers)	ISR	30/09/06	31/12/25	X	2		Gadiv
SCAL16080A	9	Polyphosphoric acids, esters with triethanolamine, sodium salts solution	GBR	01/08/18	None	Z	3		ChampionX
SCAL16475A	7	Diethylenetriamine pentaacetic acid, pentapotassium salt (40% solution)	GBR	03/10/14	31/12/25	Y	3		ChampionX
SCAL16660A	7	Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution	GBR	03/10/14	31/12/25	Y	3		ChampionX
SCALETREAT 8031D	11	L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	NOR	04/08/14	31/12/25	Z	NA		Clariant Oil Services Scandinavia AS
SCALETREAT 8241	9	Maleic anhydride sodium allylsulphonate copolymer (aqueous solution)	NOR	06/10/10	31/12/25	Z	3		Clariant Oil Services Scandinavia AS
SCALETREAT 13850	9	Ethylene glycol	NOR	04/01/16	31/12/25	Z	3		Clariant Oil Services Scandinavia AS
SCALETREAT ST12595	11	Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	NOR	04/08/14	31/12/25	Z	NA		Clariant Oil Services Scandinavia AS
SCALETREAT TP 8106	9	Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	NOR	10/09/10	31/12/25	Z	3	High Viscosity	Clariant Oil Services Scandinavia AS
SCALETREAT TP 8106A	9	Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	GBR	01/10/13	31/12/25	Z	3		Clariant Oil Services UK Ltd
SCW85902KCL	11	[[[(Phosphonomethyl)imino]bis[ethylenenitrolobis (methylene)]] tetrakisphosphonic acid, ammonium salt solution (60% or less)	GBR	05/10/18	31/12/25	Z	NA		Baker Hughes Limited

TRIPARTITE AGREEMENTS

List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

Tradename	n.o.s.	Contains	Rep	Receive	Expiry	Cat	ST	Remark	Company
SELEXOL SOLVENT	7	Polyethylene glycol dimethyl ether	USA	21/11/08	31/12/25	Y	3		Dow
SOLGAD 100	6	Alkyl (C3-C4) benzenes	ISR	01/04/10	31/12/25	Y	2		Gadiv
SOLGAD 150	3	Alkyl (C5-C8) benzenes	ISR	30/09/06	31/12/25	X	2		Gadiv
SOLGAD 150ULN	3	Alkyl (C3-C4) benzenes	ISR	30/09/06	31/12/25	X	2		Gadiv
SOLGAD 200	3	Methyl naphtalene (molten)	ISR	30/09/06	31/12/25	X	2		Gadiv
SOLGAD 200ULN	3	Methyl naphtalene (molten)	ISR	30/10/06	31/12/25	X	2		Gadiv
SOLTROL 130	7	Iso- and Cyclo- Alkanes (C10-C11)	USA	02/05/08	31/12/25	Y	3		Chevron Phillips
SOLVTREAT 13860	11	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	NOR	05/10/18	31/12/25	Z	NA		Clariant Oil Services Scandinavia AS
Varsol 140	7	Alkyl (C9+) benzenes	BEL	01/09/06	31/12/25	Y	3		ExxonMobil
WAXTREAT 3553	5	Alkyl (C3-C4) benzenes	NOR	14/08/08	31/12/25	Y	2		Clariant Oil Services Scandinavia AS
Xylenes Concentrates	6	Ethylbenzene	GBR	30/09/06	31/12/25	Y	2		ExxonMobil

TRIPARTITE AGREEMENTS

List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
10% SCALETREAT 8199C in 6% NaCl	Phosphoric acid; Ethanolamine	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	R	No	AC	No		Clariant Oil Services Scandinavia AS
30-50% SCALETREAT SD 12154 in 3% KCl	Potassium hydroxide solution	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	O	No	AC	No	16.2.9	Clariant Oil Services Scandinavia AS
ACPC12261SP	Toluene	USA	BRA, GUY, TTO	15/11/19	31/12/22	Y	S/P	3	2G	Cont	No	T1	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
ACPC26004A	Naphthalene (molten); Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	ChampionX
Alcoa CARP	Sodium aluminate	USA	All countries		None	Y	S/P	2	2G	Cont	No	-	-	NF	C	T	No	Yes	15.12, 15.17, 15.19	Alcoa
Amine DCT	Triethylenetetramine/2-Piperazine-1-ylethylamine mixtures	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19	Dow Chemical
AP 13168	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
AP 13246	Calcium long chain alkaryl sulphonate (C11-C50); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
AP 13275	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
ASPH01959SP	Xylene	USA	BRA, GUY, TTO	15/11/19	31/12/22	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
ASPH11928SP	Toluene; 1H-Imidazole-1-Ethanol; 4,5-Dihydroxy-, 2-Nortall-Oil Alkyl Derivative; Kerosene	USA	GUY	20/05/21	31/12/24	X	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19.6, 16.2.7	ChampionX
ASPH16675SP	Kerosene	USA	BRA, GUY, TTO	03/04/20	31/12/23	X	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	AC	No	15.12, 15.17, 15.19.6	ChampionX
ASPH17544SP	Xylene, Fatty acid-amine condensate	USA	BRA, GUY, TTO	15/08/19	31/12/22	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	A	Yes	15.19.6, 16.2.9(h)	ChampionX
Basol 2020	Potassium hydroxide solution	NOR	All countries		None	Z	S/P	3	2G	Open	No	-	-	NF	R	No	No	No	15.19.6	Schlumberger Production Technologies
BK Gasoline	Benzene; 1,3-Cyclopentadiene dimer (molten)	ITA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19	Versalis SpA
BK Reformed/Platformed Gasoline	1,3-Cyclopentadiene dimer (molten); Styrene	ITA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Versalis SpA
BWTR29368A	Sorbitan sesquioleate; Oil	GBR	All countries		None	X	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	ChampionX
BWTR29378A	Sorbitan sesquioleate; Oil	GBR	All countries		None	X	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	ChampionX
BWTR29398A	Sorbitan sesquioleate; Oil	GBR	All countries		None	X	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	ChampionX
BWTR29404A	Sorbitan sesquioleate; Oil	GBR	All countries		None	X	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	ChampionX

TRIPARTITE AGREEMENTS

List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
BWTR29408A	Sorbitan sesquiolate; Oil	GBR	All countries		None	X	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	ChampionX
CA 354	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite Company
Caromax 20	Alkyl (C3-C4) benzenes; Naphthalene	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
Caromax 20/45	Alkyl (C3-C4) benzenes; Naphthalene	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
Caromax 26	Methylnaphthalene; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
Caromax 28	Methynaphthalene; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
CAS 29/75	Methylnaphthalene; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
CGW80742P	Methyl alcohol; Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate and mineral oil	GBR	All countries		31/12/25	X	S/P	1	2G	Cont	No	T2	IIA	No	C	FT	ABC	Yes	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.12, 15.17, 15.19	Baker Hughes Limited
Clairsol 350MHF	n-Alkanes (C10+)	GBR	All countries		31/12/25	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	Petrochem Carless
Clairsol CT-NA	n-Alkanes (C10+)	GBR	All countries		31/12/25	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	Petrochem Carless
Clairsol NS	n-Alkanes (C10+)	GBR	All countries		31/12/25	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	Petrochem Carless
CM-9824	Sodium hydroxide solution	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No	15.19.6	Schlumberger Production Technologies
CORR01036F2	2-Mercaptoethanol; Ethylene glycol monoalkyl ethers	GBR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	ChampionX
CORR10003A	Triethylene glycol	GBR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
CORR11413A	Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol; Ethylene glycol monoalkyl ethers	GBR	All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	ChampionX
CORR11610SP	Ethylene glycol monoalkyl ethers	GBR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	T3	IIB	No	C	FT	AC	No	15.12.3, 15.12.4, 15.19.6	ChampionX
CORR11645A	Alkyl (C5-C8) benzenes; Tall oil acids/linoic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19	ChampionX
CORR16196SP	Quaternary Ammonium Compounds, 2-Mercaptoethanol	USA	BRA, GUY, TTO	15/08/19	31/12/22	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ACD	Yes	15.12, 15.17, 15.19	ChampionX

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
CORR18925A	Naphthalene and Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
CS 1500E	Polyalkene sulphonic acid (C20-C28), sodium salt	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12.3, 15.12.4, 15.19, 16.2.6, 16.2.9	Chevron Oronite
CTC Crude Type A	Carbon tetrachloride	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	NF	C	T	No	Yes	15.12, 15.17, 15.19	Ineos ChlorVinyls Ltd
D-Crude CTC	Carbon tetrachloride	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	NF	C	T	No	No	15.12, 15.17, 15.19	Dow Chemical
DMO2241 Demulsifier	Oxyalkylated alkylphenolic resin; Trimethyl benzene; Light aromatic naphtha	USA	GUY	22/06/21	31/12/24	X	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	AC	Yes	15.12, 15.17, 15.19, 16.2.9(h)	Baker Hughes Inc.
Eastman VersaMax	Bis-(2-ethylhexyl) terephthalate; Dibutyl terephthalate	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	Eastman Chemical Company
Eastman VersaMax(TM) Plasticizer	Bis(2-ethylhexyl) terephthalate; Dibutyl terephthalate	USA	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	Eastman Chemical Company
EC1645A	Alkyl (C5-C8) benzenes; Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19	ChampionX
EC6004A	Naphthalene (molten); Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	ChampionX
EC6671A	Methyl alcohol; Poly n-alkylmethacrylamide ammonium acrylate copolymer (20% solution in DEGME)	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
EEHC1	Triethylene glycol	GBR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
EMBR12012A	Naphthalene, Solvent Naptha	USA	BRA, GUY, TTO	15/08/19	31/12/22	X	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
EMBR18636A	Octanol (all isomers)	NOR	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
EMBR18636F3	Octanol (all isomers)	NOR	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
Emulsotron X-8636	Octanol (all isomers)	NOR	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
ENORDET O332	Sodium alkyl (C14-C17) sulphonates (60-65% solution)	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	AC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6	Shell Chemical
Ethylol 75	Ethyl alcohol; Isopropyl ether	ZAF	All countries		31/12/25	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	F	AC	No	15.19.6	Sasol
FLOPAAM™ DW 5205 MAQE 1	Iso-and-cycloalkanes (C12+)	GBR	CYP, NOR	28/07/20	31/12/23	Y	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6, 16.2.7, 16.2.9	SNF S.A.S.
FORSA SRW85991 Scale Dissolver	L-glutamic acid, N,N-diacetic acid	GBR	BHS, NOR, USA	16/05/19	31/12/22	Y	S/P	3	2G	Open	No	-	-	NF	O	No	No	No	15.19.6	Baker Hughes Limited
Fraction C6	Benzene	ITA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Versalis SpA
Fraction C7	Toluene	ITA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T1	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Versalis SpA
Fraction TX	Toluene	ITA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T1	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Versalis SpA

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List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

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Annex 3

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
Fuerza Combustible	Methyl alcohol; Octane	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19	Fuerza LLC
FX2886	Naphthalene (molten); Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19	ChampionX
GT-7538	Diethanolamine	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	No	15.12, 15.17, 15.19.6	Schlumberger Production Technologies
GT-7599	Diethanolamine	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	No	15.12, 15.17, 15.19.6	Schlumberger Production Technologies
GT-7602	Diethanolamine	NOR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	No	15.12, 15.17, 15.19.6	Schlumberger Production Technologies
GT-70515	Potassium hydroxide solution (*)	NOR	NLD, GBR	08/02/21	31/12/24	Z	S/P	3	2G	Open	No	-	-	Yes	R	No	AC	No	15.19.6	Schlumberger Production Technologies
GT-71520	Diethanolamine	NOR	GBR	03/09/21	31/12/24	Y	S/P	3	2G	Open	No	-	-	Yes	R	No	AC	No	15.19.6	Schlumberger Production Technologies
Gytron SA1360	Hydrochloric acid	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	NF	O	No	No	No		ChampionX
H.B.M. (Volatile oil)	1,3-Pentadiene	JPN	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F	ABC	No	15.13, 15.19.6, 16.6.1, 16.6.2, 16.6.3	Nihon Zeon Co. Ltd
Halliburton A-SPERSE	Ethoxylated long chain (C16+) alkyloxyalkylamine	USA	All countries		None	Y	S/P	2	2G	Cont	No	T1	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19, 16.2.9	Halliburton
HITEC 9345S	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	Afton Chemical Corporation
HYDT16671SP	Methyl alcohol; Poly n-alkylmethacrylamide ammonium acrylate copolymer (20% solution in DEGME)	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
IP CLEAN LX	Dodecane (all isomers)	JPN	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F	ABC	No	15.19.6	Idemitsu Kosan
IP Extraction Feed	1,3-Cyclopentadiene dimer; Isoprene	NLD	All countries		31/12/25	Y	S/P	2	2G	Cont	Inert	T3	IIB	No	C	FT	ABC	Yes	15.12, 15.13, 15.14, 15.17, 15.19, 16.6.1, 16.6.2 and 16.6.3	Shell
IP SOLVENT 1620	Dodecane (all isomers)	JPN	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F	ABC	No	15.19.6	Idemitsu Kosan
KemSweep NLP 5002	Acrylamide (ACAM) – Acrylic acid, sodium salt (NaAA) copolymer (70:30 ACAM:NaAA) in water/iso- and cyclo- alkanes (C12+)	GBR	All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6	Kemira

TRIPARTITE AGREEMENTS

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
KI-3130	Tall-oil fatty acids reaction products with diethylenetriamine; Acetic acid	NOR	All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	O	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6	Schlumberger Production Technologies
Kogasol 56	Hexane (all isomers); Heptane (all isomers)	ZAF	All countries		31/12/25	X	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19	SASOL
Linealene 124	Dodecene (all isomers)	JPN	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6	IDEMITSU KOSAN CO. LTD
LUBAD 1798	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Polyolefin amide alkeneamine polyol and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite
LUBAD 1807	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite S.A.S.
LUBAD 1887	Calcium long chain alkyl phenate sulphide (C8-C40); Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase and mineral oil	SGP	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite
LUBAD 1958	Calcium long-chain alkyl phenate sulphide (C8-C40); Alkyl(C18-C28) toluenesulphonic acid, calcium salts, high overbase and mineral oil	SGP	ARG, AUS, BHS, BEL, BRA, CAN, CYM, CHL, CHN, COL, ECU, EGY, FIN, FRA, DEU, GRC, HKG, IND, ITA, JPN, MYS, NLD, NZL, NOR, PAN, PER, KOR, ZAF, ESP, THA, TUR, GBR, USA, VEN	13/02/19	31/12/22	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite
LUBAD 1999	Calcium long-chain alkyl phenate sulphide (C8-C40) and mineral oil	SGP	JPN, PAN	27/12/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	Chevron Oronite

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Lubrizol 116.90	Polyolefin amide alkeneamine (C17+) and mineral oil	USA	CYM, CHN, FRA, HKG, IDN, JPN, LBR, MYS, MLT, MHL, NOR, PAN, KOR, SGP, GBR	03/03/21	31/12/24	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	The Lubrizol Corporation
LUBRIZOL 128.74Z	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, FRA, HKG, IDN, JPN, LBR, MYS, MLT, MHL, NOR, PAN, KOR, SGP, GBR	28/01/21	31/12/24	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	The Lubrizol Corporation
Lubrizol 4980A	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
LUBRIZOL 9240J	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, CYP, HKG, JPN, LBR, MLT, MHL, NOR, PAN, KOR, SGP, GBR	18/07/19	31/12/22	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	LUBRIZOL
Lubrizol 16005	Calcium long chain alkaryl sulphonate (C11-C50); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol 20017	Polyolefin amide alkeneamine (C17+); Alkenyl (C11+) amide and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol CV2301	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol CV2307	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14)	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol CV6503	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol

TRIPARTITE AGREEMENTS

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Lubrizol CV7050	Calcium long chain alkaryl sulphonate (C11-C50); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol FC8051X	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol FC9050	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol FC9052X	Polyolefin amide alkeneamine (C17+); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol MAR 515U	Calcium long chain alkyl phenate sulphide (C8-C40); Alcohols (C12+), primary, linear	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	Lubrizol
LUBRIZOL MD9C00X	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, HKG, IDN, JPN, LBR, MYS, MHL, NOR, PAN, KOR, SGP, GBR	22/12/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	The Lubrizol Corporation
Lubrizol MD9C01X	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol MD9C45TL	Calcium long chain alkyl phenate sulphide (C8-C40); Mineral Oil	USA	CYM, CHN, CYP, HKG, IDN, JPN, LBR, MYS, MLT, MHL, NOR, PAN, KOR, SGP, GBR	13/02/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol MD9C70TL	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, CYP, HKG, IDN, JPN, LBR, MYS, MLT, NOR, PAN, KOR, SGP, GBR	20/05/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	Lubrizol
Lubrizol MD9C70X	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol MD9C140X	Polyolefin amide alkeneamine (C17+) and mineral oil	USA	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol

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List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
Lubrizol PV1023	Calcium alkaryl sulphonate (C11-C50); Alkenyl (C11+) amide and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Lubrizol
Lubrizol PV1127K	Polyolefin amide alkeneamine (C17+); Alkenyl (C11+) amide and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
LUBRIZOL PV1410	Magnesium alkaryl sulphonate (C11-C50); Polyolefin amide alkeneamine (C17+) and mineral oil	USA	CYM, CHN, HKG, IDN, JPN, LBR, MYS, MHL, NOR, PAN, KOR, SGP, GBR	22/12/20	31/12/23	Y	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6, 16.2.7	The Lubrizol Corporation
LUBRIZOL PV1510	Magnesium alkaryl sulphonate (C11-C50); Polyolefin amide alkeneamine (C17+) and mineral oil	USA	CYM, CHN, HKG, IDN, JPN, LBR, MYS, MHL, NOR, PAN, KOR, SGP, GBR	22/12/20	31/12/23	Y	S/P	2	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6, 16.2.6, 16.2.7	The Lubrizol Corporation
Lubrizol PV3400X	Polyolefin amide alkeneamine (C17+) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol PV6500X	Alkylated (C4-C9) hindered phenols; Polyolefin amide alkeneamine (C17+) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6	Lubrizol
Lubrizol PV6501X	Alkylated (C4-C9) hindered phenols; Polyolefin amide alkeneamine (C17+) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol PV7053	Polyolefin amide alkeneamine (C17+); Alkenyl (C11+) amide and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
Lubrizol SLF6006	Polyolefin amide alkeneamine (C17+); Calcium long chain alkyl phenate sulphide (C8-C40)	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.9	Lubrizol
MAR 363P	Calcium long chain alkyl phenate sulphide (C8-C40); Mineral Oil	USA	CYM, CHN, CYP, HKG, IDN, JPN, LBR, MYS, MLT, MHL, NOR, PAN, KOR, SGP, GBR	13/02/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
MD9C70TL	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, CYP, HKG, IDN, JPN, LBR, MYS, MLT, NOR, PAN, KOR, SGP, GBR	20/05/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	Lubrizol
Mixed Aromatics(Raw C9+)	Solvent Naphtha, Petroleum, Heavy aromatic; Naphthalene (molten)	KOR	CHN	16/06/21	31/12/24	X	S/P	2	2G	Cont	No	T1	IIB	No	C	FT	ABC	Yes	15.12.3, 15.19.6	Hanwha Corporation
Mixed Aromatics(Raw C9+C)	Solvent Naphtha, Petroleum, Heavy aromatic	KOR	CHN	16/06/21	31/12/24	X	S/P	2	2G	Cont	No	T1	IIB	No	C	FT	ABC	No	15.12.3, 15.19.6	Hanwha Corporation
MPG Basic	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether; Sodium methylate	USA	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19.6	Dow Chemical Company
NAPH23002A	Acetic acid; Alcohols (C9-11), ethoxylated, phosphate	GBR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	C	No	AC	Yes	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.17, 15.19	ChampionX
NEODENE 1214	1-Dodecene	USA	ATG, ARG, AUS, BHS, BEL, BRA, CAN, CYM, CHN, CYP, DNK, FRA, DEU, GRC, HKG, IND, IDN, ITA, JPN, LBR, MYS, MLT, MHL, MEX, NLD, NOR, PAN, KOR, VCT, SAU, SGP, ESP, THA, TUR, ARE, GBR	15/07/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	Shell Chemical LP
NH758A-A	Betaines (C12-C18 – amidoalkyl) dimethyl	NOR	NLD, GBR	03/10/19	31/12/22	Y	S/P	2	2G	Cont	No	T2	IIB	No	R	F	AC	No	15.17, 15.19.6	Clariant Oil Services Scandinavia AS
OCI AlcoBioFuel	Ethyl alcohol; Methyl alcohol	NLD	IRL, MLT, NOR, GBR	06/03/20	31/12/23	Y	S/P	3	2G	Cont	No	T1	IIA	No	C	FT	AC	No	15.12.1, 15.12.2, 15.12.3.2, 15.12.3.3, 15.12.4, 15.17, 15.19	OCI Fuels BV
OLOA 273 Distillate	Alkylphenols (C10-C18, C12 rich)	FRA	All countries		None	X	S/P	1	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 865G	Calcium long chain alkyl phenate sulphide (C8-C40)	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
OLOA 4594R	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 8888	Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite S.A.S.
OLOA 9790F	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA 9999	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 16310	Calcium alkyl (C10-C28) salicylate; Long chain alkylphenol (C14-C18) and mineral oil	SGP	All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6	Chevron Oronite
OLOA 48014	Calcium long chain alkyl (C18-C28) salicylate; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6, 16.2.9	Chevron Oronite S.A.S.
OLOA 48018	Calcium long chain alkyl (C18-C28) salicylate and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 49819	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA 49822	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite

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Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
OLOA 49833	Calcium long-chain alkyl phenate sulphide (C8-C40); Alkyl(C18-C28)toluenesulphonic acid, calcium salts, high overbase and mineral oil	SGP	ARG, AUS, BHS, BEL, BRA, CAN, CYM, CHL, CHN, COL, ECU, EGY, FIN, FRA, DEU, GRC, HKG, IND, ITA, JPN, MYS, NLD, NZL, NOR, PAN, PER, KOR, ZAF, ESP, THA, TUR, GBR, USA, VEN	13/02/19	31/12/22	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite
OLOA 49834	Alkyl(C18-C28) toluenesulphonic acid, calcium salts, high overbase and mineral oil	SGP	ARG, AUS, BHS, BEL, BRA, CAN, CYM, CHL, CHN, COL, ECU, EGY, FIN, FRA, DEU, GRC, HKG, IND, ITA, JPN, MYS, NLD, NZL, NOR, PAN, PER, KOR, ZAF, ESP, THA, TUR, GBR, USA, VEN	13/02/19	31/12/22	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite
OLOA 49840	Calcium long-chain alkyl phenate sulphide (C8-C40); Alkyl(C18-C28) toluenesulphonic acid, calcium salts, high overbase and mineral oil	SGP	PAN	06/11/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite
OLOA 49888	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA 54000	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.

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OLOA 54013	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6	Chevron Oronite S.A.S.
OLOA 55501	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA 58000	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 59168	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Polyolefin amide alkeneamine polyol and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite
OLOA 59211	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, borated; Polyolefin amide alkeneamine polyol and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite
OLOA 59716	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 59726	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 59762	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 59766	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	SGP	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA 59770	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6	Chevron Oronite S.A.S.

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OLOA 65747	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron Oronite S.A.S.
OLOA 99470E	Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase; Zinc alkyl dithiophosphate (C3-C14) and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6	Chevron
OLOA275JR	Calcium long chain alkyl (C18-C28) salicylate and mineral oil	USA	All countries		31/12/25	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron
PARA16592A	Naphthalene (molten); and Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19	ChampionX
Paraset 29H	Alkyl (C5-C8) benzenes; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
Paraset 32S	Alkyl (C9+) benzenes; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
PE CIW-NO	Aniline	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	NF	C	T	No	No	15.12, 15.17, 15.19.6	Halliburton AS
Pentylol	n-Amyl alcohol and sec-Amyl alcohol	ZAF	All countries		31/12/25	Y	S/P	3	2G	Cont	No	T2	IIB	No	R	FT	AC	No	15.12.3, 15.12.4, 15.19.6	Sasol
PETROSWEET HSW82185	Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	GBR	NOR, USA	13/01/21	31/12/24	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19	Baker Hughes Limited
PFR23LUC	Methyl alcohol	USA	GUY	22/06/21	31/12/24	Y	S/P	3	2G	Cont	No	T1	IIA	No	C	FT	AC	No	15.12.1, 15.12.2, 15.12.3.2, 15.12.3.3, 15.12.4, 15.17, 15.19	Baker Hughes Inc.
PI-7096	Alkyl benzenes, C9-C17 (straight or branched)	NOR	NLD, GBR	17/06/19	31/12/22	Y	S/P	3	2G	Cont	No	-	-	Yes	R	T	ABC	No	15.12.3, 15.12.4, 15.9.6	Schlumberger Production Technologies
Pilot 140	Alkyl (C9+) benzenes; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
Pilot 150H	Alkyl (C9+) benzenes; Poly(2+)cyclic aromatics	GBR	All countries		31/12/25	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	Petrochem Carless
PPO Crude CIRC Broad S1	Aliphatic and aromatic hydrocarbons (C7-C26 fraction)	USA	BEL, NLD	16/11/21	31/12/24	X	S/P	1	2G	Cont	No	T3	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19, 16.2.9	The Dow Chemical Company
R12973A	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, CYP, HKG, LBR, MLT, MHL, NOR, PAN, KOR, SGP, GBR	03/04/19	31/12/22	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.9	Lubrizol
R-50359	Naphthalene (molten); Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	No	15.12, 15.17, 15.19.6	ChampionX

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RAW C5	1-3-Cyclopentadiene; Isoprene	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ABC	No	15.12, 15.14, 15.17, 15.19.6, 16.6.2, 16.6.3	Sabic UK Petrochemicals
RBHC (Exxon Mobil)	Heptane; Benzene	FRA	All countries		31/12/25	X	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ExxonMobil
RM192D	Calcium long chain alkyl phenate sulphide (C8-C40); Zinc alkyl dithiophosphate (C3-C14) and mineral oil	FRA	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Chevron Oronite S.A.S.
SASC2013	Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19	Merichem
Sasol MPH	Alkanes linear and branched (C10-C26) (flashpoint >60°C); Olefins (C13+, all isomers)	ZAF	IND, NOR, SGP	08/10/20	31/12/23	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	F	ABC	No	15.19.6, 16.2.9	Sasol
Sasol PH	Alkanes linear and branched (C10-C26) (flashpoint >60°C); Olefins (C13+, all isomers)	ZAF	IND, NOR, SGP	08/10/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.9	Sasol
SBM CL-NO XL	Boric acid	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	NF	C	T	No	Yes	15.12, 15.17, 15.19, 16.2.6	Halliburton AS
SBM DFS-H15	Hydrochloric acid; Aniline	NOR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	NF	C	T	No	No	15.11, 15.12, 15.17, 15.19.6	Halliburton AS
SBM DM Preflush	Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	R	T	AC	No	15.12.3, 15.12.4, 15.19	Halliburton AS
SBM NSA-NO	Formic acid (85% or less acid); Acetic acid	NOR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	NF	R	T	No	No	15.11, 15.12.3, 15.12.4, 15.19.6	Halliburton AS
SCAL11360A	Hydrochloric acid	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	NF	O	No	No	No		ChampionX
SCAL11650A	Ethylene glycol	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No		ChampionX
SCAL16145A	Sodium Diethylenetriaminepenta (Methylenephosphonate)	GBR	GHA, NOR	13/06/19	31/12/22	Z	S/P	3	2G	Open	No	-	-	NF	R	No	No	No	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.19.6	ChampionX
SCAL16312A	Formic acid (over 85%)	GBR	All countries		None	Y	S/P	3	2G	Cont	No	-	-	Yes	R	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.17, 15.19.6	ChampionX
SCAL16359A	Ethylene glycol and [(2-hydroxyethyl) imino]dimethylene] bisphosphonic acid, sodium salt	GBR	All countries		None	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No		ChampionX
SCAL17694A	Potassium hydroxide Solution	GBR	DNK, NOR	09/08/19	31/12/22	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	ChampionX
SCALETREAT 852NW-MEG	Ethylene glycol	NOR	NLD, GBR	05/04/19	31/12/22	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6	Clariant Oil Services Scandinavia AS
SCALETREAT 8198	Potassium hydroxide solution (*)	NOR	DNK, NLD, GBR	08/03/21	31/12/24	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No	15.19.6	Clariant Oil Services Scandinavia AS

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List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
SCALETREAT 13842	Ethanolamine; Ethylene glycol	NOR	NLD, GBR	07/04/20	31/12/23	Z	S/P	3	2G	Open	No	-	-	Yes	R	No	ABC	No	15.19.6	Clariant Oil Services Scandinavia AS
SCALETREAT 14345	Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Y	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No	15.19.6	Clariant Oil Services Scandinavia AS
SCALETREAT SD 12154	Potassium hydroxide solution	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	NF	C	No	No	No	15.17, 15.19, 16.2.9	Clariant Oil Services Scandinavia AS
SCALETREAT SD 12392	Acetic acid	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	R	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.17, 15.19.6, 16.2.9	Clariant Oil Services Scandinavia AS
SCALETREAT SD 13877	Acetic acid	NOR	GBR	19/05/21	31/12/24	Z	S/P	3	2G	Cont	No	-	-	Yes	C	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.17, 15.19.6, 16.2.9	Clariant Oil Services Scandinavia AS
SCALETREAT TP 8385	Ethylene glycol	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No		Clariant Oil Services Scandinavia AS
SCALETREAT XL36	Calcium chloride solution; Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	ABC	No		Clariant Oil Services Scandinavia AS
SCAVTREAT 15211	1,3,5-Hexahydrotriethanol-1,3,5-triazine solution	NOR	All countries		None	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19	Clariant Oil Services Scandinavia AS
SD-4108	Acetic acid	NOR	All countries		None	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8	Schlumberger Production Technologies
SD-4127	Acetic acid; 1,3,5-Hexahydrotriethanol-1,3,5-triazine	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19	Schlumberger Production Technologies
SD-4206	Sodium hydroxide solution	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	NF	R	No	No	No	15.17, 15.19.6	Schlumberger Production Technologies
SD-4820	Formic acid (85% or less acid)	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	R	No	AC	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.17, 15.19.6	Schlumberger Production Technologies
Secure SC2020	3-(Triethoxysilyl)propylamine	NOR	All countries		31/12/25	Z	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19	ChampionX
SGR 21	N,N'-Methylenebis(5-methyloxazolidine); methyl alcohol	NOR	All countries		None	Y	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	AC	No	15.12, 15.17, 15.19	REDA Oilfield AS
SI-4126	Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	R	No	AC	No	15.17, 15.19.6	Schlumberger Production Technologies

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List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
SI-4142	2,6-Diaminohexanoic acid phosphonate mixed salts solution	NOR	All countries		None	Z	S/P	3	2G	Open	No	-	-	NF	R	No	No	No	15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.19.6	Schlumberger Production Technologies
SI-4154	Ethanolamine	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	R	T	AC	No	15.12.3, 15.12.4, 15.19.6	Schlumberger Production Technologies
SI-4489	2,6-Diaminohexanoic acid phosphonate mixed salts solution	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	NF	O	No	No	No		Schlumberger Production Technologies
SI-49024	Sodium hydroxide solution	NOR	DNK, GBR	28/10/21	31/12/24	Z	P	3	2G	Open	No	-	-	Yes	O	No	AC	No		Schlumberger Production Technologies
Solidless Kill Pill Weighted	Sodium bromide solution (less than 50%)	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	NF	C	T	No	No	15.12, 15.17, 15.19.6, 16.2.6, 16.2.9	Halliburton AS
SOLVTREAT 3030	Alkanes (C10-C26), linear and branched (flashpoint >60°C); Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	-	-	Yes	R	No	ABC	No	15.19.6	Clariant Oil Services Scandinavia AS
SOLVTREAT 3062	Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	-	-	Yes	R	No	AC	No	15.19.6	Clariant Oil Services Scandinavia AS
SOLVTREAT 12093	Ethylene glycol monoalkyl ethers	NOR	All countries		31/12/25	Z	S/P	3	2G	Open	No	-	-	Yes	O	No	AC	No		Clariant Oil Services Scandinavia AS
SUBSEA125 Corrosion Inhibitor	Methyl alcohol; Sulfanyl alcohol	USA	GUY	22/06/21	31/12/24	X	S/P	2	2G	Cont	No	T2	IIA	No	C	FT	AC	No	15.12, 15.17, 15.19	Baker Hughes Inc.
SUBSEA529 Asphaltene Inhibitor	Fatty acids tall-oil reaction products with polyethylenepolyamines; Toluene	USA	GUY	22/06/21	31/12/24	Y	S/P	2	2G	Cont	No	T1	IIA	No	C	FT	AC	Yes	15.12, 15.17, 15.19	Baker Hughes Inc.
SUBSEA924	Xylene; Ethylbenzene	USA	GUY	22/06/21	31/12/24	Y	S/P	2	2G	Cont	No	T2	IIA	No	R	FT	ABC	No	15.12.3, 15.12.4, 15.19.6	Baker Hughes Inc.
SURFLO PLUS® SFPEC 1610A	Ethylene glycol monoalkyl ethers	GBR	All countries		31/12/25	Y	S/P	3	2G	Cont	No	T3	IIB	No	C	FT	AC	No	15.12.3, 15.12.4, 15.19.6	ChampionX
SURFOM CS 5015	Ethoxylated tallow amine	BRA	All countries		31/12/25	X	S/P	2	2G	Cont	Inert	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.19, 16.2.6, 16.2.9	Oxiteno Nordeste S/A Industria e Comercio
Talumar B	Calcium long chain alkyl phenate sulphide (C8-C40)	USA	All countries		None	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6	Lubrizol
TALUMAX B	Calcium long chain alkyl phenate sulphide (C8-C40) and mineral oil	USA	CYM, CHN, CYP, HKG, IDN, JPN, LBR, MYS, MLT, NOR, PAN, KOR, SGP, GBR	20/05/20	31/12/23	Y	S/P	2	2G	Open	No	-	-	Yes	O	No	ABC	No	15.19.6, 16.2.6, 16.2.7	Lubrizol

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List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

Trade Name	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	D	ST	F	G	H	I'	I''	I'''	J	K	L	N	O	Company
TRETOLITE DMO86571	Alkybenzene mixtures (Containing less than 1% naphthalene)	GBR	CYP, NOR	02/05/19	31/12/22	Y	S/P	2	2G	Cont	No	T3	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Baker Hughes Limited
TRETOLITE DMO87027	Alkybenzene mixtures (Containing less than 1% naphthalene)	GBR	CYP, NOR	02/05/19	31/12/22	X	S/P	2	2G	Cont	No	T1	IIA	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	Baker Hughes Limited
Ucarsol	Piperazine (68% solution)	USA	All countries		31/12/25	Y	S/P	2	2G	Cont	No	-	-	Yes	C	T	AC	Yes	15.12, 15.17, 15.19, 16.2.6, 16.2.9	Dow Chemical
Vertiscreen 052R	Ethyl alcohol	NOR	All countries		31/12/25	Z	S/P	3	2G	Cont	No	T2	IIA	No	R	F	AC	No	15.19.6	Vertical
VX 8925	Napthalene; Alkyl (C5-C8) benzenes	GBR	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T2	IIB	No	C	FT	ABC	No	15.12, 15.17, 15.19.6	ChampionX
Waksol 911 A	n-Alkanes (C9-C11); Paraffin wax	ZAF	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	FT	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.9	Sasol
Waksol 911 B	n-Alkanes (C9-C11); Paraffin wax	ZAF	All countries		31/12/25	Y	S/P	2	2G	Cont	No	T3	IIA	No	R	FT	ABC	No	15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9	Sasol
WAXTREAT 16055	Alkyl naphthalenes, crude (containing naphthalene) and Polyester of C20/24-Alkenylsuccinic anhydride/ Glycerine	NOR	NLD, GBR	11/08/21	31/12/24	X	S/P	2	2G	Cont	No	-	-	Yes	C	T	ABC	Yes	15.12, 15.17, 15.18, 15.19, 16.2.9	Clariant Oil Services Scandinavia AS

TRIPARTITE AGREEMENTS

List 4: Pollutant only mixtures containing one or more components, forming more than 1% by weight of the mixture, which have not yet been assessed by IMO

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Tradename	n.o.s.	Contains	Rep	Countries	Receive Date	Expiry Date	Cat	ST	Remark	Company
SOLIDS FREE COMPLETION FLUID	9	Sodium chloride	NOR	NLD, GBR	27/02/19	31/12/22	Z	3		Baker Hughes GE Oilfield Services

LIST 5: SUBSTANCES ONLY USED AS COMPONENTS IN TRADE-NAMED MIXTURES

Product Name	Ship Type ¹	Pollution Category ²	Component factor ³
Acrylamide (ACAM) – Acrylic acid, sodium salt (NaAA) Copolymer (70:30 ACAM:NaAA) in water/iso- and cyclo-alkanes (C12+)	2 (Rule 11, 12 or 13)	Y (Rule 7)	1 (Row p)
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	2 (Rule 8)	Y (Rule 10)	1 (Row s)
Acrylic acid / dimethyldiallylammonium chloride copolymer, partial sodium salt (MWT 1500-4000, aqueous solution)	NA (Rule 15)	OS (Rule 13)	0 (Row u)
Alcohols (C9-11), ethoxylated, phosphate	2 (Rule 7)	Y (Rule 6 or 9)	10 (Row o)
L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	3 (Rule 12)	Z (Rule 12)	0 (Row t)
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl), 4-hydroxy-C7-C9 alcohols branched and linear	2 (Rule 8)	Y (Rule 6)	10 (Row o)
Bismuth oxide	NA (Rule 15)	OS (Rule 13)	0 (Row u)
Boric acid	3 (Rule 13)	Y (Rule 11)	25 (Row n)
Cinnamaldehyde	3 (Rule 13)	Y (Rule 7)	1 (Row p)
Diethylenetriamine pentaacetic acid, pentapotassium salt (40% solution)	3 (Rule 12)	Y (Rule 7)	1 (Row p)
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution	3 (Rule 13)	Y (Rule 7)	1 (Row p)
Dipropylene glycol dibenzoate	2 (Rule 10)	Y (Rule 6)	10 (Row o)
Fatty acids, C18 unsaturated, reaction products with triethanolamine, dimethyl sulphate-quaternized	2 (Rule 10)	Y (Rule 7 or 10)	1 (Row p or s)
Imidazolium compounds, 1-benzyl-4,5-dihydro-1-(hydroxyethyl)-2-norcoco alkyl, chlorides	2 (Rule 4)	X (Rule 3)	1,000 (Row l)
Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	3 (Rule 12)	Z (Rule 12)	0 (Row t)
2-Mercaptoethanol	3 (Rule 12)	Y (Rule 11)	25 (Row n)
Polyalkene sulphonic acid (C20-C28), sodium salt	2 (Rule 8)	Y (Rule 10)	1 (Row s)
Polyether, borated	2 (Rule 6)	Y (Rule 6)	10 (Row o)
Polyethylene glycol sorbitol hexaoleate	2 (Rule 8 or 10)	Y (Rule 7 or 10)	1 (Row p or s)
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	2 (Rule 6)	Y (Rule 6)	10 (Row o)
Polyphosphoric acids, esters with triethanolamine, sodium salts solution	3 (Rule 12 or 13)	Z (Rule 12)	0 (Row t)
Potassium carbonate solution	3 (Rule 13)	Y (Rule 7)	1 (Row p)
Potassium iodide	3 (Rule 13)	Y (Rule 11)	25 (Row n)
2-Propenoic acid polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, 2-methyloxirane and oxirane (65% in naphtha/xylene)	2 (Rule 8)	Y (Rule 7)	1 (Row p)
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	2 (Rule 4)	X (Rule 3)	1,000 (Row l)
Sodium aluminate solution	2 (C3=(3), so ST2)	Y (Rule 6)	10 (Row o)
Sodium methylate	3 (Rule 13)	Y (Rule 11)	25 (Row n)
Sorbitan sesquioleate	2 (Rule 7 or 8)	Y (Rule 9 or 10)	1 (Row r or s)
Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	2 (Rule 8)	Y (Rule 11)	25 (Row n)
Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol	3 (Rule 13)	Y (Rule 7)	1 (Row p)
Tall oil acids reaction products with triethanolamine	2 (Rule 8)	Y (Rule 7)	1 (Row p)
Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate quaternized	1 (Rule 1)	X (Rule 1)	10,000 (Row i)

¹ Rule for ship type refers to table 2 in 21.4.5.2 of the IBC Code

² Rule for Pollution Category refers to table 1 in 21.4.5.2 of the IBC Code / Appendix I to MARPOL Annex II

³ Row for component factor refers to table 1 of MEPC.1/Circ.512/Rev.1

Tall-oil fatty acids reaction products with diethylenetriamine	2 (Rule 4 or 8)	X (Rule 3)	1000 (Row l)
Thioglycolic acid	2 (C3=3, so ST2)	Y (Rule 7)	1 (Row p)
3-(Triethoxysilyl)propylamine	2 (C3=(3), so ST2)	Z (Rule 12)	0 (Row t)

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CASTOR OIL

BP Castor Oil
BSS Castor Oil
Castor Oil First Special Grade
Commercial Castor Oil
First Pressure Castor Oil
Fractionated Castor Oil
Hydrogenated Castor Oil
Interesterified Castor Oil
No 1 Castor Oil
Pharmaceutical Grade Castor Oil
Ricinus Oil

COCOA BUTTER

Cocoa Butter Degummed
Cocoa Butter Pressed Degummed Deodorized
Crude Cocoa Butter
Deodorized Cocoa Butter
Deodorized Degummed Cocoa Butter
PPP (Pure Prime Pressed) Cocoa Butter

COCONUT OIL

Cochin Coconut Oil
Coconut Palm Oil
Copra Oil
Crude Coconut Oil
Degummed Coconut Oil
Fractionated Coconut Oil
Free Coconut Oil
Hydrogenated Coconut Oil
Interesterified Coconut Oil
RBD Coconut Oil

CORN OIL

Crude Corn Oil
Crude Degummed Corn Oil
Fractionated Corn Oil
Hydrogenated Corn Oil
Interesterified Corn Oil
Maize Oil
RBD Maize Oil
RBD Corn Oil
RBDW Corn Oil
RBDW Maize Oil
Refined and Bleached Corn Oil

Refined, Bleached and Winterized Corn Oil

COTTON SEED OIL

Cotton Oil
Fractionated Cottonseed Oil
Hydrogenated Cottonseed Oil
Interesterified Cottonseed Oil
PBSY Cottonseed Oil
Semi-refined Cottonseed Oil

FISH OIL

Anchovy Oil
Capelin Oil
Cod Oil
Crude Fish Oil
Fractionated Fish Oil
Herring Oil
Hydrogenated Fish Oil
Interesterified Fish Oil
Menhaden Oil
Menhaden Stearin
Salmon Oil
Sardine Oil

GROUNDNUT OIL

Arachis Oil
Crude Groundnut Oil
Fractionated Groundnut Oil
Hydrogenated Groundnut Oil
Interesterified Groundnut Oil
Peanut Oil
Refined Groundnut Oil

ILLIPE OIL

Borneo Tallow
Fractionated Illipe Oil
Green Butter
Hydrogenated Illipe Oil
Illipe Butter
Interesterified Illipe Oil
Tengkawang Butter

JATROPHA OIL

Physic nut extract

SYNONYMS FOR VEGETABLE OILS

Ratanjyot oil

LARD

Choice Kettle Lard
Crude Lard
Edible Lard
Fractionated Lard
Hydrogenated Lard
Inedible Lard
Interesterified Lard
Leaf Lard
Steam Lard

LINSEED OIL

Crude Linseed Oil
Flaxseed Oil
Fractionated Linseed Oil
Hydrogenated Linseed Oil
Interesterified Linseed Oil
Raw Linseed Oil

MANGO KERNEL OIL

Fractionated Mango Kernel Oil
Hydrogenated Mango Kernel Oil
Interesterified Mango Kernel Oil
Mangifera Indica Oil
Mango Butter
Mango Seed Oil

NON-EDIBLE INDUSTRIAL GRADE PALM OIL

High FFA Crude Palm Oil
High FFA Technical Palm Oil
Low Grade Palm Oil

OLIVE OIL

Crude Olive Oil
Extra Virgin Olive Oil
Lampante Virgin Olive Oil
Olive-Pomace Oil
Ordinary Virgin Olive Oil
Refined Olive Oil
Virgin Olive Oil

PALM ACID OIL

Acid Oil from Palm Oil
Acid Oil from Palm Oil Refining
Acidulated Palm Oil Soapstock
Hydrogenated Palm Acid Oil

PALM FATTY ACID DISTILLATE

Distilled Palm Fatty Acid Distillate
Fatty Acid Distillate from Palm Oil Refining
Hydrogenated Palm Fatty Acid Distillate (HPFAD)
Palm Deodorizer Distillate
Palm Oil Fatty Acid Distillate

PALM KERNEL ACID OIL

Acidulated Palm Kernel Oil Soapstock
Hydrogenated Palm Kernel Acid Oil

PALM KERNEL OIL

Bleached Palm Kernel Oil
Crude Palm Kernel Oil (CPKO)
Fractionated Palm Kernel Oil
Hydrogenated Palm Kernel Oil
Interesterified Palm Kernel Oil
NBD Palm Kernel Oil
Neutralized Palm Kernel Oil
Palm Kernel Oil Fraction
RBD Palm Kernel Oil
Refined Palm Kernel Oil
Sustainable Palm Kernel Oil

PALM KERNEL OLEIN

Bleached Palm Kernel Olein
Crude Palm Kernel Olein
Fractionated Palm Kernel Olein
Hydrogenated Palm Kernel Olein
Interesterified Palm Kernel Olein
Liquid Fraction of Palm Kernel Olein
NBD Palm Kernel Olein
Neutralized Palm Kernel Olein
RBD Palm Kernel Olein
Sustainable Palm Kernel Olein

PALM KERNEL STEARIN

Bleached Palm Kernel Stearin
Crude Palm Kernel Stearin

SYNONYMS FOR VEGETABLE OILS

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Fractionated Palm Kernel Stearin
Hydrogenated Palm Kernel Stearin
Interesterified Palm Kernel Stearin
NBD Palm Kernel Stearin
Neutralized Palm Kernel Stearin
RBD Palm Kernel Stearin
Sustainable Palm Kernel Stearin

PALM MID-FRACTION

Crude Palm Mid Fraction
NBD Palm Mid Fraction
Neutralized and Bleached Palm Mid Fraction
Neutralized Palm Mid Fraction
RBD Palm Mid Fraction
Red Palm Mid Fraction
Sustainable Palm Mid Fraction

PALM OIL

Bleached Palm Oil
Crude Palm Oil (CPO)
Fractionated Palm Oil
Hydrogenated Palm Oil
Interesterified Palm Oil
NBD Palm Oil
Neutralized Palm Oil
Palm Mesocarp Oil
Palm Fruit Oil
RBD Palm Oil
Red Palm Oil
Sustainable Palm Oil
Technical Palm Oil

PALM OLEIN

Bleached Palm Olein
Crude Palm Olein
Double Fractionated Palm Olein
Fractionated Palm Olein
Hydrogenated Palm Olein
Interesterified Palm Olein
NBD Palm Olein
Neutralized Palm Olein
Palm Superolein
RBD Palm Olein
Red Palm Olein
Refined Palm Olein

Sustainable Palm Olein

PALM STEARIN

Bleached Palm Stearin
Crude Palm Stearin
Fractionated Palm Stearin
Hydrogenated Palm Stearin
Interesterified Palm Stearin
NBD Palm Stearin
Neutralized Bleached Palm Stearin
Neutralized Palm Stearin
RBD Palm Stearin
Red Palm Stearin
Refined Bleached Palm Stearin
Refined Palm Stearin
Soft Stearin
Sustainable Palm Stearin

RAPESEED OIL

Crude Degummed Rapeseed Oil
Crude Rapeseed Oil
Fractionated HE Rapeseed Oil
Genetically Modified Rapeseed Oil
HEAR Oil
HE Rapeseed Oil
High Erucic Acid Rapeseed Oil
Hydrogenated HE Rapeseed Oil
Hydrogenated Rapeseed Oil
Interesterified HE Rapeseed Oil
Interesterified Rapeseed Oil
LEAR Oil
Low Erucic Acid Rapeseed Oil
RBD Canola Oil
RBD Rapeseed Oil
Refined Canola Oil
Refined Rapeseed Oil
Technical Rapeseed Oil

RICE BRAN OIL

Fractionated Rice Bran Oil
Hydrogenated Rice Bran Oil
Interesterified Rice Bran Oil

SAFFLOWER OIL

Fractionated Safflower Oil

SYNONYMS FOR VEGETABLE OILS

Hydrogenated Safflower Oil
Interesterified Safflower Oil
Safflowerseed Oil
Thistleseed Oil

SHEA BUTTER

Karité Butter
Kariténut Butter
Shea Butter Oil
Shea Butter Olein
Shea Butter Stearin
Sheanut Butter

SOYABEAN OIL

Aceite Crude Desgomado de Soja (S)
Aceite Crudo de Soja (S)
Aceite de Soja (S)
Crude Degummed Soyabean Oil
Crude Degummed Soyabean Oil of Edible Grade
Crude Degummed Soybean Oil
Crude Soyabean Oil
Crude Soybean Oil
Crude Supergummed Soyabean Oil
Expelled Soyabean Oil
Fractionated Soyabean Oil
Genetically Modified Soyabean Oil
Huile Brute de Soja (F)
Huile Brute de Soja Desgommée (F)
Huile de Soja (F)
Hydrogenated Soyabean Oil
Interesterified Soyabean Oil
RBD Soyabean Oil
RBD Soy Oil
Refined Soy Oil
Soybean Oil
Soy Oil

SUNFLOWER SEED OIL

Crude Sunflower Oil
Crude Sunflowerseed Oil
Crude Sunflowerseed Oil of Edible Grade
Fractionated Sunflowerseed Oil
Genetically Modified Sunflowerseed Oil
High Oleic Sun Oil
Hydrogenated Sunflowerseed Oil
Interesterified Sunflowerseed Oil

Refined Sunflowerseed Oil
Sun Oil
Sunflower Oil

TALLOW

"A" Tallow
All Beef Packer Tallow
All White Tallow
Barso Tallow
Beef Tallow
Bleachable Fancy Tallow
Bulk Tallow
Choice White Grease
Choice White Tallow
Crude Tallow Oil
Edible Tallow
Extra Fancy Tallow
Fancy Tallow
Feed Grade Tallow
Fractionated Tallow
Gannet Tallow
Good Soap Tallow
Government Certified Edible Beef Tallow
High Energy Feed Fat
Hydrogenated Tallow
Inedible Tallow
Inedible Beef Tallow
Inedible Unbleached Technical Tallow
Interesterified Tallow
Laundry Grade Tallow
Low Grade Tallow
Low Titre Tallow
Mutton Tallow
Poultry Oil
Prime Tallow
Pure Beef Tallow
Special Tallow
Tallow Oil
Technical Edible Tallow
Technical Tallow
Toilet Grade Tallow
Top White Tallow
Yellow Grease

TUNG OIL

China Wood Oil
Raw Tung Oil

SYNONYMS FOR VEGETABLE OILS

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Raw Wood Oil
Wood Oil

Abbreviations:

BSP - British Pharmacopeia
BSS - British Standard Specification
RBD - Refined Bleached Deodorised
NBD - Neutralised Bleached Deodorised
RBDW - Refined Bleached Deodorised
Winterised
PBSY - Prime Bleached Summer Yellow
HE - High Erucic
HEAR - High Erucic Acid Rapeseed
LEAR - Low Erucic Acid Rapeseed

Note: Product names are in bold. All other names are synonyms.

LIST OF COUNTRY ABBREVIATIONS
Part 1 – Code Order

Code	Country	Code	Country
AFG	Afghanistan	CMR	Cameroon
AGO	Angola	COD	Democratic Republic of the Congo
ALB	Albania	COG	Congo
AND	Andorra	COK	Cook Islands
ARE	United Arab Emirates	COL	Colombia
ARG	Argentina	COM	Comoros
ARM	Armenia	CPV	Cabo Verde
ATG	Antigua and Barbuda	CRI	Costa Rica
AUS	Australia	CUB	Cuba
AUT	Austria	CYM	Cayman Islands (United Kingdom)
AZE	Azerbaijan	CYP	Cyprus
BDI	Burundi	CZE	Czechia
BEL	Belgium	DEU	Germany
BEN	Benin	DJI	Djibouti
BFA	Burkina Faso	DMA	Dominica
BGD	Bangladesh	DNK	Denmark
BGR	Bulgaria	DOM	Dominican Republic
BHR	Bahrain	DZA	Algeria
BHS	Bahamas	ECU	Ecuador
BIH	Bosnia and Herzegovina	EGY	Egypt
BLR	Belarus	ERI	Eritrea
BLZ	Belize	ESP	Spain
BOL	Bolivia (Plurinational State of)	EST	Estonia
BRA	Brazil	ETH	Ethiopia
BRB	Barbados	FIN	Finland
BRN	Brunei Darussalam	FJI	Fiji
BTN	Bhutan	FRA	France
BWA	Botswana	FSM	Micronesia (Federated States of)
CAF	Central African Republic	GAB	Gabon
CAN	Canada	GBR	United Kingdom
CHE	Switzerland	GEO	Georgia
CHL	Chile	GHA	Ghana
CHN	China	GIN	Guinea
CIV	Côte d'Ivoire	GMB	Gambia

Code	Country	Code	Country
GNB	Guinea-Bissau	LSO	Lesotho
GNQ	Equatorial Guinea	LTU	Lithuania
GRC	Greece	LUX	Luxembourg
GRD	Grenada	LVA	Latvia
GTM	Guatemala	MAR	Morocco
GUY	Guyana	MCO	Monaco
HKG	Hong Kong, China	MDA	Republic of Moldova
HND	Honduras	MDG	Madagascar
HRV	Croatia	MDV	Maldives
HTI	Haiti	MEX	Mexico
HUN	Hungary	MHL	Marshall Islands
IDN	Indonesia	MKD	North Macedonia
IND	India	MLI	Mali
IRL	Ireland	MLT	Malta
IRN	Iran (Islamic Republic of)	MMR	Myanmar
IRQ	Iraq	MNE	Montenegro
ISL	Iceland	MNG	Mongolia
ISR	Israel	MOZ	Mozambique
ITA	Italy	MRT	Mauritania
JAM	Jamaica	MUS	Mauritius
JOR	Jordan	MWI	Malawi
JPN	Japan	MYS	Malaysia
KAZ	Kazakhstan	NAM	Namibia
KEN	Kenya	NER	Niger
KGZ	Kyrgyzstan	NGA	Nigeria
KHM	Cambodia	NIC	Nicaragua
KIR	Kiribati	NIU	Niue
KNA	Saint Kitts and Nevis	NLD	Netherlands
KOR	Republic of Korea	NOR	Norway
KWT	Kuwait	NPL	Nepal
LAO	Lao People's Democratic Republic	NRU	Nauru
LBN	Lebanon	NZL	New Zealand
LBR	Liberia	OMN	Oman
LBY	Libya	PAK	Pakistan
LCA	Saint Lucia	PAN	Panama
LIE	Liechtenstein	PER	Peru
LKA	Sri Lanka	PHL	Philippines

Code	Country	Code	Country
PLW	Palau	SYR	Syrian Arab Republic
PNG	Papua New Guinea	TCD	Chad
POL	Poland	TGO	Togo
PRK	Democratic People's Republic of Korea	THA	Thailand
PRT	Portugal	TJK	Tajikistan
PRY	Paraguay	TKM	Turkmenistan
QAT	Qatar	TLS	Timor-Leste
ROU	Romania	TON	Tonga
RUS	Russian Federation	TTO	Trinidad and Tobago
RWA	Rwanda	TUN	Tunisia
SAU	Saudi Arabia	TUR	Turkey
SDN	Sudan	TUV	Tuvalu
SEN	Senegal	TZA	United Republic of Tanzania
SGP	Singapore	UGA	Uganda
SLB	Solomon Islands	UKR	Ukraine
SLE	Sierra Leone	URY	Uruguay
SLV	El Salvador	USA	United States
SMR	San Marino	UZB	Uzbekistan
SOM	Somalia	VAT	Holy See
SRB	Serbia	VCT	Saint Vincent and the Grenadines
SSD	South Sudan	VEN	Venezuela (Bolivarian Republic of)
STP	Sao Tome and Principe	VNM	Viet Nam
SUR	Suriname	VUT	Vanuatu
SVK	Slovakia	WSM	Samoa
SVN	Slovenia	YEM	Yemen
SWE	Sweden	ZAF	South Africa
SWZ	Eswatini	ZMB	Zambia
SYC	Seychelles	ZWE	Zimbabwe

LIST OF COUNTRY ABBREVIATIONS
Part 2 – Country Order

Code	Country	Code	Country
AFG	Afghanistan	TCD	Chad
ALB	Albania	CHL	Chile
DZA	Algeria	CHN	China
AND	Andorra	COL	Colombia
AGO	Angola	COM	Comoros
ATG	Antigua and Barbuda	COG	Congo
ARG	Argentina	COK	Cook Islands
ARM	Armenia	CRI	Costa Rica
AUS	Australia	CIV	Côte d'Ivoire
AUT	Austria	HRV	Croatia
AZE	Azerbaijan	CUB	Cuba
BHS	Bahamas	CYP	Cyprus
BHR	Bahrain	CZE	Czechia
BGD	Bangladesh	PRK	Democratic People's Republic of Korea
BRB	Barbados	COD	Democratic Republic of the Congo
BLR	Belarus	DNK	Denmark
BEL	Belgium	DJI	Djibouti
BLZ	Belize	DMA	Dominica
BEN	Benin	DOM	Dominican Republic
BTN	Bhutan	ECU	Ecuador
BOL	Bolivia (Plurinational State of)	EGY	Egypt
BIH	Bosnia and Herzegovina	SLV	El Salvador
BWA	Botswana	GNQ	Equatorial Guinea
BRA	Brazil	ERI	Eritrea
BRN	Brunei Darussalam	EST	Estonia
BGR	Bulgaria	SWZ	Eswatini
BFA	Burkina Faso	ETH	Ethiopia
BDI	Burundi	FJI	Fiji
CPV	Cabo Verde	FIN	Finland
KHM	Cambodia	FRA	France
CMR	Cameroon	GAB	Gabon
CAN	Canada	GMB	Gambia
CYM	Cayman Islands (United Kingdom)	GEO	Georgia
CAF	Central African Republic	DEU	Germany

Code	Country	Code	Country
GHA	Ghana	MDG	Madagascar
GRC	Greece	MWI	Malawi
GRD	Grenada	MYS	Malaysia
GTM	Guatemala	MDV	Maldives
GIN	Guinea	MLI	Mali
GNB	Guinea-Bissau	MLT	Malta
GUY	Guyana	MHL	Marshall Islands
HTI	Haiti	MRT	Mauritania
VAT	Holy See	MUS	Mauritius
HND	Honduras	MEX	Mexico
HKG	Hong Kong, China	FSM	Micronesia (Federated States of)
HUN	Hungary	MCO	Monaco
ISL	Iceland	MNG	Mongolia
IND	India	MNE	Montenegro
IDN	Indonesia	MAR	Morocco
IRN	Iran (Islamic Republic of)	MOZ	Mozambique
IRQ	Iraq	MMR	Myanmar
IRL	Ireland	NAM	Namibia
ISR	Israel	NRU	Nauru
ITA	Italy	NPL	Nepal
JAM	Jamaica	NLD	Netherlands
JPN	Japan	NZL	New Zealand
JOR	Jordan	NIC	Nicaragua
KAZ	Kazakhstan	NER	Niger
KEN	Kenya	NGA	Nigeria
KIR	Kiribati	NIU	Niue
KWT	Kuwait	MKD	North Macedonia
KGZ	Kyrgyzstan	NOR	Norway
LAO	Lao People's Democratic Republic	OMN	Oman
LVA	Latvia	PAK	Pakistan
LBN	Lebanon	PLW	Palau
LSO	Lesotho	PAN	Panama
LBR	Liberia	PNG	Papua New Guinea
LBY	Libya	PRY	Paraguay
LIE	Liechtenstein	PER	Peru
LTU	Lithuania	PHL	Philippines
LUX	Luxembourg	POL	Poland

Code	Country	Code	Country
PRT	Portugal	SUR	Suriname
QAT	Qatar	SWE	Sweden
KOR	Republic of Korea	CHE	Switzerland
MDA	Republic of Moldova	SYR	Syrian Arab Republic
ROU	Romania	TJK	Tajikistan
RUS	Russian Federation	THA	Thailand
RWA	Rwanda	TLS	Timor-Leste
KNA	Saint Kitts and Nevis	TGO	Togo
LCA	Saint Lucia	TON	Tonga
VCT	Saint Vincent and the Grenadines	TTO	Trinidad and Tobago
WSM	Samoa	TUN	Tunisia
SMR	San Marino	TUR	Turkey
STP	Sao Tome and Principe	TKM	Turkmenistan
SAU	Saudi Arabia	TUV	Tuvalu
SEN	Senegal	UGA	Uganda
SRB	Serbia	UKR	Ukraine
SYC	Seychelles	ARE	United Arab Emirates
SLE	Sierra Leone	GBR	United Kingdom
SGP	Singapore	TZA	United Republic of Tanzania
SVK	Slovakia	USA	United States
SVN	Slovenia	URY	Uruguay
SLB	Solomon Islands	UZB	Uzbekistan
SOM	Somalia	VUT	Vanuatu
ZAF	South Africa	VEN	Venezuela (Bolivarian Republic of)
SSD	South Sudan	VNM	Viet Nam
ESP	Spain	YEM	Yemen
LKA	Sri Lanka	ZMB	Zambia
SDN	Sudan	ZWE	Zimbabwe

TRIPARTITE CONTACT ADDRESSES

ALGERIA

C/O

Mrs MOKDAD Dounia
Merchant Marine and Ports Director
Ministry of Transports
cmd8266@yahoo.com
damokdad@mtpt.gov.dz
Algeria

Tel: +213 (0) 23 05 93 63
Fax: +213 (0) 23 05 93 19
E-mail: cmd8266@yahoo.com,
damokdad@mtpt.gov.dz

ARGENTINA

Mr. Luis Alberto Arroz
Director de Protección Ambiental
Dirección de Protección Ambiental
Av E. Madero 235 - 4° Piso - Oficina 4.42.
Buenos Aires
C1106ACC
Argentina

Tel: +54 11-4318-7666
+54 11 4318 7673
Fax: +54-11-4318-7666
E-mail: dpma-mp@prefectura naval.gov.ar,
laarroz@prefectura naval.gov.ar

AUSTRALIA

General Manager
Marine Environment Division, Australian Maritime Safety
Authority
GPO Box 2181
CANBERRA ACT 2601
Australia

Fax: +61 2 6279 5076
E-mail: GMMED@amsa.gov.au

BAHAMAS

Mr Stephen Keenan
Inspections & Surveys Department
The Bahamas Maritime Authority
120 Old Broad Street
London
EC2N 1AR
United Kingdom

Tel: +44 2075621300
E-mail: tech@bahamasmaritime.com

BELGIUM

Mr. Joachim Scheerlinck
DG Shipping - Safety and Environmental Issues
Federal Public Service Mobility & Transport
City Atrium
Vooruitgangstraat 56
Brussel
1210
Belgium

Tel: +32 2 277 34 74
+32 474 24 55 26
E-mail: joachim.scheerlinck@mobiliteit.fgov.be

BERMUDA (UNITED KINGDOM)

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
Maritime & Coastguard Agency
105 Commercial Road
Southampton
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
E-mail: Cargoes@mcga.gov.uk,
Peter.Boden@mcga.gov.uk

BRAZIL

1º Ten (EN) Ricardo Fagundes Bastos
Diretoria de Portos e Costas (DPC-20)
Rua Teofilo Otoni, 4
Centro
Rio de Janeiro
RJ
20.090-070
Brazil

Tel: + 55 21 2104 5684
+55 21 2104 5403
E-mail: dpc.tripartite@marinha.mil.br

BRITISH VIRGIN ISLANDS (UNITED KINGDOM)

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
Maritime & Coastguard Agency
Spring Place
105 Commercial Road
Southampton
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
E-mail: Cargoes@mcga.gov.uk,
Peter.Boden@mcga.gov.uk

BULGARIA

MARITIME RESCUE CO-ORDINATION CENTRE - VARNA
BULGARIAN MARITIME ADMINISTRATION
Asparuhovo Residential Area
Coastal Centre - Varna
VARNA
9000
Bulgaria

Tel: +359 52 603 268
+359 52 633 067
+359 888 952 113
Fax: +359 52 603 265
E-mail: mrcc@marad.bg,
mrcc_vn@marad.bg

CABO VERDE

Capt. Manuel Vicente Silva
Board of Directors
Instituto Marítimo Portuário - IMP // Cabo Verde MarAd
Rua Patrice Lumumba
Edifício ex. ACIAB
Mindelo
Ilha de S. Vicente
P.O. Box. nr. 7
Cabo Verde

Tel: + 238 2324342
Fax: +238 32 43 43
E-mail: manuel.vicente@imp.cv

CANADA

Ms. Julie Gascon
Director General
Marine Safety & Security, Transport Canada
Tower C, Place de Ville
330 Sparks Street, 11th Floor
Ottawa, ON
K1A 0N7
Canada

Tel: 613-990-1340
Fax: +1-613-954-1032
E-mail: imo-canada-omi@tc.gc.ca

CAYMAN ISLANDS (UNITED KINGDOM)

C/O

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
Maritime and Coastguard Agency
105 Commercial Road
Southampton
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
+44 20381 71001 (Front Desk)
E-mail: Cargoes@mcga.gov.uk,
Peter.Boden@mcga.gov.uk

CHILE

PAC Gdo.5 (Captain) Manuel Bolbarán Santander
Departamento Policía Marítima y Prevención de Riesgos
(División Cargas Peligrosas)
Dirección General del Territorio Marítimo y Marina
Mercante
Subida Cementerio N° 300, Playa Ancha, Valparaíso
Valparaíso
5ta. Región
2340000

Tel: +56 322208607
+56 322208656
E-mail: mbolbaran@directemar.cl

CHINA

Mr. Ming Song
China maritime safety administration
11 Jianguomennei Ave.
Dongcheng District
Beijing
100736
China

Tel: 0086 10 65292873
Fax: 0086 10 65293424
E-mail: cargo_china@msa.gov.cn

China Maritime Safety Administration
Department of Ship Safety and Pollution Prevention
11 Jianguomennei Ave., Beijing 100736
China

Tel: +86-10-6529-2872
Fax: +86-10-6529-2875
E-mail: ehailiang@msa.gov.cn

COLOMBIA

Dirección General Marítima-DIMAR
Carrera 54 No. 26-50 CAN
Bogotá, DC.
Colombia

Tel: (+571) 2200490 Ext: 2372
+57 (1) 2200490 EXT. 2441
Fax: (+571) 2200490 Ext: 2213
E-mail: dimar@dimar.mil.co,
grasi@dimar.mil.co

COOK ISLANDS

Ms Rachele Andreani
Head of Marine Operations and Compliance
Maritime Cook Islands
1st Floor, Browne's Building
Maritime Cook Islands
P.O. Box 882
Rarotonga
0000
Cook Islands

Tel: +682 23848
+306945107707
Fax: +682 23846
E-mail: technical@maritimecookislands.com,
angelos@maritimecookislands.com

CYPRUS

Mr. Neophytos Papadopoulos
Permanent Secretary
Shipping Deputy Ministry (SDM) to the President
Shipping Deputy Ministry to the President
P.O. Box 56193, Kyllinis street
Limassol
CY-3305
Cyprus

Tel: +357 25 848 229
+357 25 848 100
Fax: + 357 25 848200
E-mail: maritimeadmin@dms.gov.cy,
environment@dms.gov.cy

DENMARK

Environmental Protection Agency
Ministry of Environment of Denmark
Tolderlundsvej 5
Odense C
DK-5000
Denmark

E-mail: sea@mst.dk

ECUADOR

Srta. Jacqueline Espinoza
Coordinadora
SUBSECRETARIA DE PUERTOS Y TRANSPORTE
MARITIMO Y FLUVIAL (SPTMF)
Av. del Bombero y Leopoldo Carrera - Edif. "GRACE" Ep-
Petroecuador. 1er piso.
Guayaquil
Ecuador

Tel: 0059342592080 Ext. 82124
00593983021539
E-mail: jcespinoza@mtop.gob.ec,
jakelina3000@yahoo.es

EGYPT

Rear Adm. Reda Ismail
Head of Maritime Transport Sector
Maritime Transport Sector
Ministry of Transport
4 Ptolemy Street
Alexandria
21514
Egypt

Tel: +203 484 3631
Fax: +203 484 2096
002034842041
E-mail: contact@mts.gov.eg,
maritime.transport.sector@gmail.co
m

EL SALVADOR

C/O

Capt Guillermo Jiménez
Executive Director
Maritime Port Authority (AMP)
Col. San Benito y Calle #2
entre calles Loma Linda y La Mascota, casa #127
San Salvador
El Salvador

Tel: 503 25919007
E-mail: gjimenez@amp.gob.sv

ESTONIA

Maritime and Waterways Department
Estonian Transport Administration
Valge 4
Tallinn
11413
Estonia

Tel: +372 6205 700
E-mail: merendus@transpordiamet.ee

ETHIOPIA

MR Mekonnen Abera Tadele
Director General
Ethiopian Maritime Affairs Authority
Ethiopian Maritime Affairs Authority
Tadesse Tefera Bldg, 5th floor
infront of hotel De' Afrique, near Mexico square
Addis Ababa
Addis Ababa
P.O. 1861
Ethiopia

Tel: +25111503638/+251115503640/
Fax: +251115588237/
E-mail: +251115503960
maritimeadministration@maritimeaff.
gov.et

FAROES, DENMARK

Mr Súni Petersen
Head of Department
Environment Agency
Traðagøta 38
Argir
165
Faroes, Denmark

Tel: +298342400
+298 234344
E-mail: us@us.fo, sunip@us.fo

FINLAND

Dr. Jyrki Vähätalo
Special Adviser
Finnish Transport and Communications Agency (Traficom)
P.O. Box 320
Helsinki
FI-00101
Finland

Tel: +35840 525 8668
E-mail: jyrki.vahatalo@traficom.fi

FRANCE

Mr Pierre DUFOUR
Adjoint au Chef de la mission transport de matières
dangereuses
Ministère de la Transition Ecologique
MTE – DGPR – Mission Transport de Matières
Dangereuses (MTMD)
Tour Séquoia - Pièce 23-39
PARIS La Défense Cedex
92055
France

Tel: +33 1 40 81 14 96
+33 7 64 40 06 85
Fax: +33 1 40 81 86 41
E-mail: pierre.dufour@developpement-
durable.gouv.fr

Mr Pierre Dufour
Pour les cargaisons du Groupe B et les matières qui ne
sont dangereuses qu'en vrac (MDV)
Ministère de la transition écologique
MTE – DGPR – Mission Transport de Matières
Dangereuses (MTMD)
Tour Séquoia
PARIS La Défense Cedex
92055
France

Tel: +33 1 40 81 14 96
+33 7 64 40 06 85
Fax: +33 1 40 81 86 41
E-mail: MTMD.SDRA.SRT.DGPR@developp
ement-durable.gouv.fr,
pierre.dufour@developpement-
durable.gouv.fr

GERMANY

Ship Safety Division
Berufsgenossenschaft für Transport und Verkehrswirtschaft
Brandstwiete 1
Hamburg
20457
Germany

Tel: +49 40 361 370
+49 40 361 258
Fax: +49 40 361 204
E-mail: schiffssicherheit@bg-verkehr.de

Mr. Berthold Kolberg
BG Verkehr, Dienststelle Schiffsicherheit
Brandstwiete 1
Hamburg
20457
Germany

Tel: +49-40-3613-70
Fax: +49-40-3613-7204
E-mail: berthold.kolberg@bg-verkehr.de

GIBRALTAR (UNITED KINGDOM)

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
UK Maritime and Coastguard Agency
Maritime and Coastguard Agency
105 Commercial Road
Southampton
Hampshire
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
E-mail: Cargoes@mcga.gov.uk,
Peter.Boden@mcga.gov.uk

GREECE

Ms Sofia Angelou
SHIPS' DESIGN AND CONSTRUCTION DIRECTORATE -
Pollution Prevention and Cargoes Dpt Rapporteur
Ministry of Maritime Affairs and Insular Policy
150 Gr. Lambraki Str
Piraeus
18510
Greece

Tel: +30213137 1872
Fax: +30 210 4137997
E-mail: epruf@yen.gr

HONDURAS

Miss Sara Zelaya
Maritime Pollution Prevention Section
Direccion General de la Marina Mercante
Blvd. Suyapa
Contiguo Alupac
Tegucigalpa
Apdo. Postal 3625
Honduras

Tel: (504) 2239-8228
E-mail: prevencion@marinamercante.gob.hn

HONG KONG, CHINA

Principal Surveyor of Ships, Maritime Policy
Marine Department
Multi-lateral Policy Division
21/F, Harbour Building, 38 Pier Road,
Central,
Hong Kong, China

Tel: +852 2852 4602
Fax: +852 2542 4841
E-mail: hkmpd@mardep.gov.hk

ICELAND

Icelandic Transport Authority
Ármúli 2
Reykjavík
105
Iceland

Tel: +354 4806000
E-mail: samgongustofa@samgongustofa.is

INDIA

Mr. Amitabh Kumar
Director General of Shipping
Directorate General of Shipping
Directorate General of Shipping,
9th Floor, BETA Building,
i-think Techno Campus, Kanjurmarg East,
MUMBAI
400042
India

Tel: +912225752005
Fax: +912225752011
E-mail: amitabh.kumar63@nic.in

INDONESIA

C/O

Mr Barkah Bayu Mirajaya
Head of International Cooperation and Treaties Legal and
International Cooperation Division
International Cooperation and Treaties Legal - Directorate
General of Sea Transportation
Jl. Medan Merdeka Barat No 8
Jakarta Pusat
DKI Jakarta
10110
Indonesia

Tel: +62 21 3450982
Fax: +62 21 3450982
E-mail: pr.intcoop.dgst@gmail.com

IRELAND

Mr David Taylor
Engineer and Ship Surveyor
Maritime Safety Directorate
Leeson Lane
Dublin 2
Ireland

Tel: +35316783471
Fax: +35316783409
E-mail: davidtaylor@transport.gov.ie

ISLE OF MAN (UNITED KINGDOM)

C/O

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
Maritime and Coastguard Agency
105 Commercial Road
Spring Place
Southampton
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
020381 71001 (Front Desk)
E-mail: Cargoes@mcga.gov.uk,
Peter.Boden@mcga.gov.uk

ITALY

Mr. Giuseppe Italiano
General Directorate of Sea and Coasts, Director-General
Ministry for Environment, Land and Sea Protection
Via Cristoforo Colombo, 44
Roma
00147
Italy

Tel: +39 06 57228003
Fax: +39 06 57228390
E-mail: mac-udg@minambiente.it

JAPAN

Ms. Ritsuko Minegishi
Official, Office of Marine Environment, Water Environment
Division
Environmental Management Bureau, Ministry of the
Environment
1-2-2 Kasumigaseki, Chiyoda-ku
Tokyo
100-8975
Japan

Tel: +81 3 5521 9023
Fax: +81 3 3501 2717
E-mail: KAIYOU02@env.go.jp

KENYA

Mr Robert Njue
Director General
Kenya Maritime Authority
P. O Box 95076
Mombasa
Kenya
80104
Kenya

Tel: +254202381203
+254733221322
E-mail: INFO@KMA.GO.KE,
DG@KMA.GO.KE

LIBERIA

C/O

Mr. Sebastian Farr
Director, Division of Monitoring, Surveillance
Liberia Maritime Authority (LiMA)
MRCC - Monrovia
Division of Monitoring, Surveillance & Rescue, Liberia
Coast Guard Headquarter
1000 Monrovia
Liberia

Tel: 00-231-777-092229
00-777-290158
E-mail: MRMRCC@LIMA-LIBERIA.COM,
MRCC.MONROVIA@YAHOO.COM

C/O

Mr. Josiah O. Botoe
Acting Technical Supervisor/Focal Person, Regional SAR
Secretariat
Liberia Maritime Authority (LiMA)
MRCC-Monrovia, Division of Monitoring, Surveillance &
Rescue
MRMRCC, Liberia Coast Guard Headquarters, Bushrod
Island
1000 Monrovia
Liberia

Tel: 00-231-886-284317
E-mail: omascobotoe@gmail.com,
omascob78@yahoo.com

C/O

Mr. Tony Dupree
VP Technical Department
Office of the Deputy Commissioner of Maritime Affairs of
the Republic of Liberia
Liberian International Ship & Corporate Registry
22980 Indian Creek Drive, Suite 200
Dulles, Virginia
20166
United States

Tel: +1 703 790 3434
+ 1 703 963 6216
Fax: +1 703 790 5655
E-mail: technical@liscr.com

LUXEMBOURG

Mr. Roland BRÜCK
Technical Advisor
Commissariat aux Affaires Maritimes
19-21 boulevard Royal
Luxembourg
L-2449
Luxembourg

Tel: +352 247 84453
Fax: +352 299140
E-mail: cam@cam.etat.lu

MALAYSIA

Mr. Nordin Mohamadin
Director
Marine Department of Malaysia
Peti Surat 12
Jalan Limbungan
Port Klang
Selangor
42007
Malaysia

Tel: +603 3346 7622
+603 3346 7777
Fax: +603 3168 5289
E-mail: nordin@marine.gov.my,
bplp@marine.gov.my

MALTA

Mr Ivan Sammut
Registrar General of Shipping and Seamen
Transport Malta
Merchant Shipping Directorate
Malta Transport Centre
Lija
LJA 2021
Malta

Tel: 00356 21250360
Fax: 0035621241460
E-mail: mershipmalta.tm@transport.gov.mt

MARSHALL ISLANDS

Mr. Mark Rijdsdijk
Safety and Technical Manager
RMI Maritime Administrator
Office of the Marshall Islands Maritime Administrator -
Technical Services
Frame 21
Rietschotten 1,
4751 XN Oud Gastel
Roosendaal
Netherlands

Tel: +31-165-515161
+31-642-476081
E-mail: roosendaal@register-iri.com,
mrijdsdijk@register-iri.com

NETHERLANDS

Human Environment and Transport Inspectorate
Ministry of Infrastructure and Watermanagement
Rijnstraat 8, 2515 XP Den Haag
PO Box 16191
The Hague
2500 BD
Netherlands

Tel: +31884890000
E-mail: nsi-tez-kv@ilent.nl

NEW ZEALAND

Mr. Ian Lancaster
Principal Advisor International
Maritime New Zealand
Level 11, 1 Grey St, Wellington 6011
PO Box 25620, Wellington 6146
Wellington
6146
New Zealand

Tel: +64-4-473-0111
Fax: +64-4-494-1263
E-mail: enquiries@maritimenz.govt.nz

NIGERIA

C/O

CAPTAIN SUNDAY M UMOREN
HEAD, MARITIME SAFETY & SEAFARERS
DEPARTMENT
Nigerian Maritime Administration and Safety Agency
NIGERIAN MARITIME RESOURCES DEVELOPMENT
CENTRE (NMRDC)
KIRIKIRI Phase 2
APAPA.
Lagos
LAGOS
Nigeria

Tel: +2347034172913
E-mail: s.umoren@yahoo.com

C/O

DR BASHIR Y. JAMOH
DIRECTOR GENERAL
NIMASA
NO 4 BURMA ROAD
APAPA, LAGOS
Nigeria

Tel: +234 (0) 8023059015
+234 (0) 8113021000
E-mail: bayuja@yahoo.com

NORWAY

Norwegian Maritime Authority
Smedasundet 50A
P.O. Box 2222
N-Haugesund
N-5528
Norway

Tel: +47 52 74 51 80
+47 52 745 000
+47 52 74 50 01
E-mail: post@sdir.no

PALAU

Mr. William Moses
Director of Bureau of Marine Transport
Ministry of Public Infrastructure Industries and Commerce-
Bureau of Marine Transport
P.O. Box 100
Koror
96940
Palau

Tel: +680 488 2620
Fax: +680 488 2963
E-mail: whayesm@gmail.com

PANAMA

Eng. Fidel González
SEGUMAR
(secondary contact point) Panama Maritime Authority
Albrook, Omar Torrijos Herrera Ave.
PanCanal Building, 4th Floor
Panama City
Panama

Tel: +507 501 5350
+507 501 5348
E-mail: authorizations@segumar.com

PANAMA

Eng. Rina Berrocal
SEGUMAR
Panama Maritime Authority
SEGUMAR PANAMA
PAN CANAL BUILDING OMAR TORRIJOS HERRERA
ALBROOK AVE 4FL
Panama City
Panama

Tel: +507 501 5348
+507 501 5350
E-mail: rberrocal@segumar.com,
authorizations@segumar.com

PAPUA NEW GUINEA

Capt. Graham R Proud
Executive Manager Maritime Administration
National Maritime Safety Authority
Level 3, Defens Haus
P.O. Box 668, Port Moresby
National Capital District
Port Moresby
Papua New Guinea

Tel: +675 70053054
+6753054600
Fax: +675 3213051
E-mail: gproud@nmsa.gov.pg,
enquiries@nmsa.gov.pg

PERU

Contralmirante JORGE PORTOCARRERO CASTILLO
Comandante de Operaciones Guardacostas
Dirección General de Capitanías y Guardacostas -
Comandancia de Operaciones Guardacostas
Av. Contralmirante Mora S/N. - Base Naval del Callao
Callao 01
Peru

Tel: +51 1 4200766
+51999442637
Fax: +51 1 4291547
E-mail: comoperguard@dicapi.mil.pe,
PORTO001@DICAPI.MIL.PE

POLAND

Department of Maritime Economy
Ministry of Infrastructure
6/12 Nowy Swiat Str.
Warsaw
00-400
Poland

Tel: +48 22 583 85 70
Fax: +48 22 583 85 71
E-mail: SekretariatDGM@mi.gov.pl

REPUBLIC OF KOREA

Mr Young-seop Lee
Deputy Director
Ministry of Oceans and Fisheries
Maritime Industry and Technology Division
Government Complex Sejong, 5-Dong, 94
Dasom2-Ro
Sejong-City
339-012
Republic of Korea

Tel: +82-44-200-5882
Fax: +82-44-200-5849
E-mail: psckorea@korea.kr

SAINT LUCIA

MR CHRISTOPHER ALEXANDER
Chairman-Oil Spills Committee (NEMO) / Director of
Maritime Affairs
SAINT LUCIA AIR AND SEA PORTS AUTHORITY-
SLASPA
MANOEL STREET
CASTRIES
PO Box 651
Saint Lucia

Tel: 17587284846
17584576152
Fax: 17584576191
E-mail: christopher.alexander@slaspa.com,
cassel.paul@slaspa.com

SAINT VINCENT AND THE GRENADINES

Mr. Sjevo Dabinovic
Commissioner
Maritime Affairs of St. Vincent and the Grenadines
Monte Carlo Sun E/F
74 Boulevard d'Italie, MC 98000 MONACO

Tel: +377 93 104450
Fax: +377 93 104499

SIERRA LEONE

Mr Paul Soba Massaquoi
Executive Director
Sierra Leone Maritime Administration
6 Government Wharf
Freetown
Maritime House
Sierra Leone

Tel: paul.massaquoi@maritime.gov.sl
E-mail: registrar@slmarad.com

SOLOMON ISLANDS

Mr. Mr. Jonah Mitau
Director
Ministry of Infrastructure and Development, Solomon
Islands Maritime Safety Administration Division
Solomon Islands Maritime Safety Administration, P.O Box
G32, Honiara, Solomon Islands
Honiara
Solomon Islands
-
Solomon Islands

Tel: 677 21535 ext. 205
Fax: 677 23798
E-mail: JMitau@mid.gov.sb

SOUTH AFRICA

Capt. Winston Lobo
Senior Technical Manager
South African Maritime Safety Authority
Private Bag X54309
Durban
KwaZulu-Natal
4000
South Africa

Tel: +27 31 307 3006
+27 71 686 9652
Fax: +27 31 307 3086
E-mail: wlobo@samsa.org.za

SPAIN

Mr. Pablo Pedrosa
Head of Division of Marine Pollution Control
Direccion General de la Marina Mercante
Ministerio de Fomento
C/Ruiz de Alarcon 1
Madrid
28071
Spain

Tel: +34 91 597 9098
Fax: +34 91 597 9287
E-mail: ppedrosa@fomento.es

SWEDEN

Civil Aviation and Maritime Department
Swedish Transport Agency
Norrköping
SE-601 73
Sweden

Tel: +46 771 503 503
Fax: +46 11 185 256
E-mail: sjofart@transportstyrelsen.se

SWITZERLAND

Mr Andrin Studer
Swiss Maritime Navigation Office SMNO
Elisabethenstrasse 33
Basel
CH-4010
Switzerland

Tel: +41 58 463 40 18
Fax: +41 58 467 11 29
E-mail: roger-patrik.witschi@eda.admin.ch,
andrin.studer@eda.admin.ch

THAILAND

Mr Krisanapong Tabchan
Director of Marine Safety and Environment Bureau
Marine Department, Ministry of Transport
1278 Yotha Road
Talard Noi
Sampanthawong
Bangkok
10100
Thailand

Tel: +6622343832
Fax: +6622343832
E-mail: envmarine.md@gmail.com

TONGA

MR Ringo FAOLIU
Chief Executive Officer
Ministry of Infrastructure
Vaololoa
Nukualofa
Kingdom of Tonga
NUKUALOFA
South Pacific Region
P.O. Box 52
Tonga

Tel: +676 23-100
+676 24-144
Fax: +676 25-440
+676 28-032
E-mail: ktonga16@gmail.com,
rfaoliu0708@gmail.com

TUNISIA

Mr. Lassoued Faycal
Chef de Service des Ports
Ministère du Transport
Direction Générale de la Marine Marchande
24 avenue de la République, 1001 Tunis

Tel: +216-1-259-117
Fax: +216-1-354-244

TURKEY

C/O

Capt. Ünal BAYLAN
Senior Technical Officer
Ministry of Transport and Infrastructure
Directorate General for Regulation of Transport Services
GMK Bulvarı No:128/A Maltepe 06570
Çankaya/ANKARA
Turkey

Tel: +90 312 203 39 33
Fax: +90 312 231 51 89
E-mail: unal.baylan@uab.gov.tr

Mr Ünal BAYLAN
Directorate General for Regulation of Transport Services
Ministry of Transport and Infrastructure
GMK Bulvarı No: 128/A Maltepe
Kat:6
Çankaya/ANKARA
06570
Turkey

Tel: +90 312 203 39 33
Fax: +90 312 231 51 89
E-mail: unal.baylan@uab.gov.tr,
dangerousgoods@uab.gov.tr

TUVALU

Capt Taasi Pitoi
Marine and Ports Services Department
Ministry of Communication and Transport
Tuvalu Government Building
Vaiaku
Funafuti
Tuvalu

Tel: +688-20055
E-mail: taasi.pitoi@gmail.com,
taasi@tvship.com

UKRAINE

Mr Yaroslav Iliasevych
Department on maritime and inland water transport
Ministry of Infrastructure of Ukraine
Peremohy ave, 14
Kyiv
Ukraine

Tel: +380443514412
E-mail: flot_bezpeka@mtu.gov.ua

UNITED KINGDOM

Mr Peter Boden
Cargoes, Safety and Pollution Prevention Team
Maritime and Coastguard Agency
Spring Place
105 Commercial Road
Southampton
Hampshire
SO15 1EG
United Kingdom

Tel: (+44) (0)203 81 72942
E-mail: Peter.Boden@mcga.gov.uk,
Cargoes@mcga.gov.uk

UNITED REPUBLIC OF TANZANIA

Mr Emmanuel Stephen Ndomba
Director General
Tanzania Shipping Agencies Corporation-TASAC
PPF Tower , 7 & 8 Floor
Ohio Street and Garden Avenue
P.o Box 989
Dar es Salaam
Dar es Salaam
11100
United Republic of Tanzania

Tel: +255222127313
+255754278893
Fax: +255222127314
E-mail: emmanuel.ndomba@tasac.go.tz,
dg@tasac.go.tz

UNITED STATES

Bulk Liquids Team Leader
United States Coast Guard (Main contact)
Chief, Hazardous Materials Standards (CG-ENG-5)
2703 Martin Luther King Jr. Ave SE, Stop 7509
Washington DC
20593-7509
United States

Tel: +1-202-372-1419
E-mail: hazmatstandards@uscg.mil

URUGUAY

Captain Pablo PÉREZ LAVALLÉN
Jefe
Departamento de Legislación y Acuerdos Internacionales
Rambla 25 de Agosto S/N
Primer Piso
Montevideo
11000
Uruguay

Tel: 0059829164914
Fax: 0059829164914
E-mail: delea-jefe@armada.mil.uy

VENEZUELA (BOLIVARIAN REPUBLIC OF)

Capitán de Navío CESAR ROMERO SALAZAR
PRESIDENTE
INSTITUTO NACIONAL DE LOS ESPACIOS
ACUATICOS
AV ORINOCO ENTRE CALLES PERIJA Y MUCUCHIES
EDIFICIO INEA
LAS MERCEDES
CARACAS
DISTRITO CAPITAL
1060

Tel: 00582129091593
Fax: 00582129091437
E-mail: inea1@inea.gob.ve

**MANUFACTURERS AUTHORIZED TO CONDUCT POLLUTANT-ONLY ASSESSMENTS BY
CALCULATION**

Authorized by Algeria for Ministry of Transports

Mrs MOKDAD Dounia
cmd8266@yahoo.com
damokdad@mtpt.gov.dz
Algeria

Authorized by El Salvador for Maritime Port Authority (AMP)

Capt Guillermo Jiménez
Col. San Benito y Calle #2
entre calles Loma Linda y La Mascota, casa #127
San Salvador
El Salvador

Authorized by France for Chevron Oronite S.A.S.

Ms. Lisa LECOMTE
Chevron Oronite S.A.
Route du Pont 8
Gonfreville l'Orcher
Le Havre Cedex
76080

**Authorized by Indonesia for International Cooperation and Treaties Legal - Directorate
General of Sea Transportation**

Mr Barkah Bayu Mirajaya
Jl. Medan Merdeka Barat No 8
Jakarta Pusat
DKI Jakarta
10110

Authorized by Tonga for Ministry of Infrastructure

MR Ringo FAOLIU
Vaololoa
Nukualofa
Kingdom of Tonga
NUKUALOFA
South Pacific Region
P.O. Box 52

Authorized by Turkey for Ministry of Transport and Infrastructure

Mr Ünal BAYLAN
GMK Bulvarı No: 128/A Maltepe
Kat:6
Çankaya/ANKARA
06570

Authorized by United States for The Lubrizol Corporation

Ms. Debora Hooper
29400 Lakeland Boulevard
Wickliffe, Ohio
44092-2298

CARGO TANK CLEANING ADDITIVES

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Name of cleaning additive	Name of manufacturer	Reporting country
AA118 SAFETY NON-CAUSTIC	VANCE CHEMICALS PTE. LTD.	SGP
AA128 MULTI-DUTY	VANCE CHEMICALS PTE. LTD.	SGP
AA138 HEAVY-DUTY	VANCE CHEMICALS PTE. LTD.	SGP
AA158 ACIDIC	VANCE CHEMICALS PTE. LTD.	SGP
AC Clean 1 JT	TriStar Industries BV	NLD
AC Clean 24	Tristar Industries BV	NLD
Accell Clean Marine	Advanced BioCatalytics Corp.	USA
Accell Clean Marine Plus	Advanced BioCatalytics Corp.	USA
ACE 4020 Multi Purpose Detergent, T-Pol	ACE Chemicals International Pte. Ltd	SGP
ACE 7012 Oil & Grease Remover	ACE Chemicals International Pte. Ltd	SGP
ACE 9005 Heavy Duty Alkaline Cleaner	ACE Chemicals International Pte. Ltd	SGP
ACE 9007 Heavy Duty Tank Cleaner A	ACE Chemicals International Pte. Ltd	SGP
ACE 9011 Heavy Duty Cleaner	ACE Chemicals International Pte. Ltd	SGP
ACE 9020 Liquid Rig Wash	ACE Chemicals International Pte. Ltd	SGP
ACE 9026 Hydrocarbon Remover	ACE Chemicals International Pte. Ltd	SGP
ACE 9027 Sodium Hypochlorite 12% Solution	ACE Chemicals International Pte. Ltd	SGP
Acquaclean MPA	Blutec srl.	ITA
Air-O-Gone-1	TriStar Industries BV	NLD
ALCACLEAN HD	MARICHEM MARIGASES Worldwide	GRC
ALCACLEAN XF	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
ALCACTIVE LIQUID	MARICHEM MARIGASES Worldwide	GRC
ALCACTIVE LIQUID PLUS	MARICHEM MARIGASES Worldwide	GRC
Alclean	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
ALCLEAN	G&E Bridge Ltd	KOR
ALCLEAN HD	G&E Bridge Ltd	KOR
Alclean Safe	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
ALCLEAN SAFE	G&E Bridge Ltd	KOR
Alcleaner PBC	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
ALKA MARINE SAFETY	CHEM MARINE	CHL
ALKA MARINE SHS	CHEM MARINE	CHL
ALKA MARINE WCI	World Clean International	PAN
ALKA MARINETUFF PHS	CHEM MARINE	CHL
Alkaclean	UNI Americas LLC	USA
ALKACLEAN	Blutec srl.	ITA
ALKACLEAN	UNIservice UNISAFE S.r.l.	ITA
Alkaclean HD / PC Cleaner	Unimarine International BV	NLD
ALKACLEAN P.	Blutec srl.	ITA
Alkaclean S.	Blutec srl	ITA
Alkaclean Safety	Vecom Marine B.V.	NLD
Alkaclean Safety	UNI Americas LLC	USA
Alkaclean Safety	Unimarine International BV	NLD
ALKACLEAN SAFETY	UNIservice UNISAFE S.r.l.	ITA
ALKAKLEEN	ALPHA CHEMICAL PRODUCTS	GRC
Alkaline (CAUS)	StarMarine Chemical BV	NLD
Alkaline (POT)	StarMarine Chemical BV	NLD
ALKALINE CLEANER PH	OCN MARINE CHEMICALS	CHL
Alkaline Green	Chemax and Pypers Company Limited	THA

*It should be noted that where products or their solutions that appear in chapter 17 or 18 of the IBC Code or list 1 of the MEPC.2/Circular are used as washing media, their discharge shall be governed by regulation 13.5.1 of MARPOL Annex II and they do not need to be listed here.

CARGO TANK CLEANING ADDITIVES

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Name of cleaning additive	Name of manufacturer	Reporting country
ALKALINE HIGH WCI	World Clean International	PAN
Alkasafe Cleaner	CHEMO	GRC
Alkasolvent Liquid	CHEMO	GRC
Alkleen Buffer	Wilhelmsen Chemicals AS	NOR
Alkleen Liquid	Wilhelmsen Chemicals AS	NOR
Alkleen Safety Liquid	Wilhelmsen Chemicals AS	NOR
ALOHA SWING	New Shin Young Co., Ltd.	KOR
ALOHA SWING PLUS	New Shin Young Co., Ltd.	KOR
ALPHA BUFFER CLEAN	ALPHA MARINE SOLUTIONS	USA
ALPHA SOAP	ALPHA MARINE SOLUTIONS	USA
ALPHA SOLVE	ALPHA MARINE SOLUTIONS	USA
ALPHASAFE	ALPHA CHEMICAL PRODUCTS	GRC
AMEROID RSR	DREW MARINE	USA
APEX ECO SOLVE	APEX CHEMICALS (S) PTE LTD	SGP
APEX FOTC	APEX CHEMICALS (S) PTE LTD	SGP
APEX MOTC	APEX CHEMICALS (S) PTE LTD	SGP
APEX RYDLYME MARINE	APEX CHEMICALS (S) PTE LTD	SGP
APEX SMITH 88	APEX CHEMICALS (S) PTE LTD	SGP
APEX SMITH 99	APEX CHEMICALS (S) PTE LTD	SGP
APEX TANK CLEAN VLC	APEX CHEMICALS (S) PTE LTD	SGP
APEX-101 ECO ACID	APEX CHEMICALS (S) PTE LTD	SGP
APEX-120 METAL BRITE HD	APEX CHEMICALS (S) PTE LTD	SGP
APEX-128 METAL BRITE XTREME	APEX CHEMICALS (S) PTE LTD	SGP
APEX-182 PASSIVE CLEAN	APEX CHEMICALS (S) PTE LTD	SGP
APEX-195 TANK CLEAN BUFFER	APEX CHEMICALS (S) PTE LTD	SGP
APEX-228 SANI CLEAN	APEX CHEMICALS (S) PTE LTD	SGP
APEX-280 NEUTRAL HCF	APEX CHEMICALS (S) PTE LTD	SGP
APEX-290 TANK CLEAN OSD	APEX CHEMICALS (S) PTE LTD	SGP
APEX-303 ECOCLEAN	APEX CHEMICALS (S) PTE LTD	SGP
APEX-304 CHLOR CLEAN	APEX CHEMICALS (S) PTE LTD	SGP
APEX-418 ALKACLEAN HD	APEX CHEMICALS (S) PTE LTD	SGP
APEX-418PH ALKACLEAN HD (POTASSIUM)	APEX CHEMICALS (S) PTE LTD	SGP
APEX-460 ALKACLEAN SAFETY LIQUID	APEX CHEMICALS (S) PTE LTD	SGP
APEX-480XF AQUATUFF HIGH FOAM	APEX CHEMICALS (S) PTE LTD	SGP
APEX-5 MULTI POL	APEX CHAMICALS (S) PTE LTD	SGP
APEX-550 SEACLEAN VOYAGE	APEX CHEMICALS (S) PTE LTD	SGP
Aquabreak PX	Wilhelmsen Chemicals AS	NOR
AQUACLEAN HIGH FOAM (Code 551013)	Guardian Laboratories Pte. Ltd.	SGP
Aquamarine Aquawash T1080A	Aquamarine Chemicals	GBR
Aquamarine Caustic-Free Cleaner	Aquamarine Chemicals	GBR
Aquamarine Natural Zest T1335A	Aquamarine Chemicals	GBR
Aquamarine Neutral HCF	Aquamarine Chemicals	GBR
Aquamarine Rustremover	Aquamarine Chemicals	GBR
Aquamarine Strong Alkaline Cleaner T1108A	Aquamarine Chemicals	GBR
Aquamarine Tank Cleaner HD	Aquamarine Chemicals	GBR
AQUAQUICK 2000	AQUAQUICK EUROPE	NLD
AQUAQUICK 2000 SP	AQUAQUICK EUROPE	NLD

CARGO TANK CLEANING ADDITIVES

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Name of cleaning additive	Name of manufacturer	Reporting country
ARIA AC+	K Marine Chemical Co., Ltd.	KOR
ARIA AGENT	K Marine Chemical Co., Ltd.	KOR
ARIA NEUTRAL PH	K Marine Chemical Co., Ltd.	KOR
ARIA SAFETY CLEAN	K Marine Chemical Co., Ltd.	KOR
ARR SAFETY LIQUID	EUROCHEM SA	GRC
ARR-LIQUID	EUROCHEM SA	GRC
ATLAS 100	Atlas Chemicals, Inc	USA
ATLAS 150	Atlas Chemicals, Inc	USA
ATLAS 202	Atlas Chemicals, Inc	USA
ATLAS A-CHLOR	Atlas Chemicals, Inc	USA
ATLAS AQUA-SOLV	Atlas Chemicals, Inc	USA
ATLAS ATC	ATLAS CHEMICAL	USA
ATLAS CD-SEA	Atlas Chemicals, Inc	USA
ATLAS I-A-C	Atlas Chemicals, Inc	USA
ATLAS KRUSHER	Atlas Chemicals, Inc	USA
ATLAS MAR-CLEAN	Atlas Chemicals, Inc	USA
ATLAS METAL BRIGHT	Atlas Chemicals, Inc	USA
ATLAS METAL TREAT	Atlas Chemicals, Inc	USA
ATLAS SEA CLEAN	ATLAS CHEMICAL	USA
ATLAS SUPER GREEN	Atlas Chemicals, Inc	USA
ATLAS VIRO-SOL	ATLAS CHEMICAL	USA
AVRA ECO HCF	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRA IGS CLEANER	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRA TANK CLEANER	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRA TANK SAFE	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRACLEAN	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRACLEAN HD	AVRA MARINE CHEMICALS S.P.C.	GRC
AVRAPOL	AVRA MARINE CHEMICALS S.P.C.	GRC
B.T.S. HCF Water Based	Blutec srl	ITA
Bio Degreaser 165	Vecom Marine B.V.	NLD
Bonderite C-AD TR-1020S(DE)	Henkel Belgium N.V.	BEL
Bonderite C-IC 146	Henkel Belgium N.V.	BEL
Bonderite C-MC 12110	Henkel Belgium N.V.	BEL
Bonderite C-MC A	Henkel Adhesive Technologies	BEL
BONDERITE C-MC X VLOEIBA (formerly P3-x vloeibaar)	Henkel Belgium N.V.	BEL
BTI BIO	OILFLUX CAPITAL, SL	ESP
Buffer	StarMarine Chemical BV	NLD
Bufferclean 5.5	Unimarine International BV	NLD
Buffersol	MARICHEM MARIGASES Worldwide	GRC
C CLEAN NEO	Diversey Co. Ltd.	JPN
C/W CLEANER	ALPHA MARINE SOLUTIONS	USA
Carbin Cleaner	Shanghai Whitecat Special Chemicals Co. Ltd.	CHN
Carechlor	Marine Care B.V.	NLD
Careclean Acrylate Neutralizer	Marine Care B.V.	NLD
Careclean AF	Marine Care BV	NLD
Careclean Alkaline	Marine Care BV	NLD
Careclean Alkaline Extra	Marine Care BV	NLD

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Careclean Alkaline Safety	Marine Care BV	NLD
Careclean Aquawash (Teepol)	Marine Care BV	NLD
Careclean Buffer	Marine Care BV	NLD
Careclean Caustic Soda	Marine Care B.V.	NLD
CareClean Citric Acid	Marine Care B.V.	NLD
Careclean Coaltar	Marine Care BV	NLD
Careclean Concentrated Tank Cleaner (CTC)	Marine Care BV	NLD
CareClean CR	Marine Care B.V.	NLD
Careclean D80	Marine Care BV	NLD
Careclean Degreaser GP	Marine Care BV	NLD
Careclean Degreaser HD	Marine Care BV	NLD
Careclean Degreaser HD Split	Marine Care BV	NLD
Careclean Detergent Booster	Marine Care BV	NLD
Careclean Ecosolv	Marine Care B.V.	NLD
Careclean Energy Wash	Marine Care BV	NLD
Careclean Formula #3	Marine Care B.V.	NLD
Careclean Formula #4	Marine Care B.V.	NLD
Careclean Formula #5	Marine Care B.V.	NLD
Careclean Foro HD	Marine Care BV	NLD
Careclean GP Enviro	Marine Care BV	NLD
Careclean HCF - BG	Marine Care B.V.	NLD
Careclean Inhibitor Killer/Lead Cleaner	Marine Care BV	NLD
Careclean Latex Remover	Marine Care B.V.	NLD
Careclean LOW COD	Marine Care BV	NLD
Careclean Multiclean	Marine Care BV	NLD
Careclean Neutral HCF	Marine Care BV	NLD
Careclean Passivation Liquid	Marine Care cleaning additives	NLD
Careclean PL-CA	Marine Care BV	NLD
Careclean PL-Con	Marine Care cleaning additives	NLD
Careclean Potassium Hydroxide	Marine Care B.V.	NLD
Careclean Rust	Marine Care BV	NLD
Careclean SC	Marine Care B.V.	NLD
Careclean Super Degreaser	Marine Care BV	NLD
Careclean Supersolv	Marine Care B.V.	NLD
Careclean Tank Guard	Marine Care B.V.	NLD
CARECLEAN TANK-BRIGHT	MARINE CARE B.V.	NLD
Careclean Voyage (Seaclean)	Marine Care BV	NLD
Careclean WAF	Marine Care B.V.	NLD
Careclean Xcellerate VO	Marine Care B.V.	NLD
Careclean Zinco Surf	Marine Care B.V.	NLD
Caretank ECO	Marine Care BV	NLD
Caretank ECO Extra	Marine Care BV	NLD
Cargo Hold Cleanser	Yantai Mercury Chemical Technology Co., Ltd	CHN
Caustic Flakes	Wilhelmsen Chemicals AS	NOR
Caustic Potash	Wilhelmsen Chemicals AS	NOR
Caustic Potash DM	Drew Marine	USA
Caustic Soda DM	Drew Marine	USA

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Cement Remover	MARICHEM MARIGASES Worldwide	GRC
CH-1 - High Foam Alkaline Cleaner for NLS Cargo Tanks	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
CHEMIPOL	CHEMO	GRC
Chemtec Bleach	CHEMTEC Chemicals GmbH	DEU
Chemtec B-Solve	CHEMTEC Chemicals GmbH	DEU
Chemtec Citric Acid	CHEMTEC Chemicals GmbH	DEU
Chemtec KOH	CHEMTEC Chemicals GmbH	DEU
Chemtec Multipol	CHEMTEC Chemicals GmbH	DEU
Chemtec NaOH	CHEMTEC Chemicals GmbH	DEU
Chemtec Nitric Acid	CHEMTEC Chemicals GmbH	DEU
Chemtec Sodium Carbonate	CHEMTEC Chemicals GmbH	DEU
CHEMTEC Solvent Degreaser	CHEMTEC Chemicals GmbH	DEU
CHEMTEC ZnHCR	CHEMTEC Chemicals GmbH	DEU
Chemtec-HCK	CHEMTEC Chemicals GmbH	DEU
CHLOR 12%	UNIservice UNISAFE S.r.l.	ITA
Citrisurf 3050	Stellar Solutions Inc	USA
CITRUS CLEAN	ALPHA MARINE SOLUTIONS	USA
Clean Break	UNI Americas LLC	USA
Cleanbreak	Blutec srl	ITA
Coal Tar Cleaner	Unimarine International BV	NLD
COAL TAR CLEANER	AVRA MARINE CHEMICALS S.P.C.	GRC
Coal Tar Remover	Vecom Marine B.V.	NLD
COAL TAR REMOVER	Ertek Chemicals	TUR
COAL TAR REMOVER	CHEMO SA	GRC
Coaltar Remover	WVT Industries N.V.	BEL
COLD WASH	UNIservice UNISAFE S.r.l.	ITA
Cold Wash C.	Blutec srl	ITA
Cold Wash HD	UNI Americas LLC	USA
COLD WASH MARINE	CHEM MARINE	CHL
Coldwash HD	Unimarine International BV	NLD
CP Bleach	CP Metal Chemicals	NLD
CP B-Solve	CP Metal Chemicals	NLD
CP Caustic	CP Metal Chemicals	NLD
CP Citric Acid	CP Metal Chemicals	NLD
CP Lead Clean	CP METAL CHEMICALS	NLD
CP Nitric Acid	CP Metal Chemicals	NLD
CP Potassium	CP Metal Chemicals	NLD
CP Sodium Carbonate	CP Metal Chemicals	NLD
CR AQUA CLEANER M	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER B	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER B PLUS	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER C	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER D	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER E	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER HCF	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER LAC	CRAMOIL SINGAPORE PTE LTD	SGP
CR DEGREASER X	CRAMOIL SINGAPORE PTE LTD	SGP

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CR ENVIROCLEAN	CRAMOIL SINGAPORE PTE LTD	SGP
CR LEADCLEAN	CRAMOIL SINGAPORE PTE LTD	SGP
CR SPARKLECLEAN 8.4	CRAMOIL SINGAPORE PTE LTD	SGP
CR ZINC SAFE NEUTRAL HCF	CRAMOIL SINGAPORE PTE LTD	SGP
CT Alka HD	CHEMTEC Chemicals GmbH	DEU
CT Metal HD	CHEMTEC Chemicals GmbH	DEU
CTC - Cleaner - VLC	CHEMTEC Chemicals GmbH	DEU
D'Bond Heavy Duty Alkaline Degreaser	CSG Industries Pte Ltd	SGP
D'Bond Multi-purpose Cleaner	CSG Industries Pte Ltd	SGP
D'Bond Tank Cleaner (Solvent-based)	CSG Industries Pte Ltd	SGP
D'Bond Tank Cleaner (Water-based)	CSG Industries Pte Ltd	SGP
DC CLEAN HCR	DaeChang Chemical Co. Ltd.	KOR
DC CLEAN MSC	DaeChang Chemical Co. Ltd.	KOR
DC CLEAN NEUTRAL	DaeChang Chemical Co. Ltd.	KOR
DC CLEAN NLS	DaeChang Chemical Co. Ltd.	KOR
DC-CLEAN AC	DaeChang Chemical Co. Ltd.	KOR
DC-CLEAN AC +	DaeChang Chemical Co. Ltd.	KOR
Degreaser 156	Vecom Marine B.V.	NLD
DEGREASER HD WCI	World Clean International	PAN
Descaler Liquid 555	MARICHEM MARIGASES Worldwide	GRC
DG SUPER ECO	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
DG-01 - Solvent Based Degreaser HD Split for NLS Cargo Tank Cleaning	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
DG-02 - Heavy Duty Solvent Based Degreaser for NLS Cargo Tank Cleaning	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
DG-03 - Heavy Duty Water Based Degreaser for NLS Cargo Tank Cleaning	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
DG-04 - Multi-Purpose Liquid Detergent for NLS Cargo Tank Cleaning	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
DG-05 - Environment Cleaner Degreaser	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
DG12 TANK WASH	Sepcotech A/S	DNK
DG12-T	Sepcotech A/S	DNK
DREW ABD	Drew Marine	USA
Drew BC	Drew Marine	USA
DREW NBD	Drew Marine	USA
DYE OUT	CHEMO	GRC
Eazy Aquaclean	Eazychem Ltd	GBR
Eazy Aquaclean HD	Eazychem Ltd	GBR
Eazy Aqualac	Eazychem Ltd.	GBR
Eazy Aqualac-P	Eazychem Ltd	GBR
Eazy NBD	Eazychem Ltd.	GBR
Eazy RSR	Eazychem Ltd.	GBR
Eazy Tankwash	Eazychem Ltd.	GBR
EC-Alkaclean HD/PC Cleaner	EFLOCHEM Chemicals Blending LLC	NLD
EC-Alkaclean Safety	EFLOCHEM Chemicals Blending LLC	NLD
EC-Bufferclean 5.5	EFLOCHEM Chemicals Blending LLC	NLD
EC-Clean Break	EFLOCHEM Chemicals Blending LLC	NLD
EC-Coal Tar Cleaner	EFLOCHEM Chemicals Blending LLC	NLD
EC-Coldwash HD	EFLOCHEM Chemicals Blending LLC	NLD

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EC-Ecoclean	EFLOCHEM Chemicals Blending LLC	NLD
EC-Genepol	EFLOCHEM Chemicals Blending LLC	NLD
ECO ADVANCE	K Marine Chemical Co., Ltd.	KOR
ECO MARINE	CHEM MARINE	CHL
ECOBBLUE ALKALINE WATER BASED SUPER DEGREASER F	Manchem (Pty) Limited	ZAF
ECOBBLUE ALKALINE WATER BASED SUPER DEGREASER LF	Manchem (Pty) Limited	ZAF
ECOBBLUE NEUTRAL WATER BASED SUPER DEGREASER F	Manchem (Pty) Limited	ZAF
ECOBBLUE NEUTRAL WATER BASED SUPER DEGREASER LF	Manchem (Pty) Limited	ZAF
Ecoclean	Vecom Marine B.V.	NLD
Ecoclean	UNI Americas LLC	USA
Ecoclean	Unimarine International BV	NLD
ECOCLEAN	UNIservice UNISAFE S.r.l.	ITA
ECOCLEAN	Blutec srl.	ITA
ECOSOLUT 14	OTI-Greentech AG	NLD
ECOSOLUT 24	OTI Greentech AG	CHE
ECOSOLUT 50	OTI-Greentech AG	DEU
ECOsolut CC	UNIservice UNISAFE S.r.l.	ITA
EC-Resin Remover	EFLOCHEM Chemicals Blending LLC	NLD
EC-Rust Remover	EFLOCHEM Chemicals Blending LLC	NLD
EC-Seaclean	EFLOCHEM Chemicals Blending LLC	NLD
EC-Uniclean GP	EFLOCHEM Chemicals Blending LLC	NLD
EC-Uniclean HCF Eco	EFLOCHEM Chemicals Blending LLC	NLD
EC-Uniclean Steam Cleaner	EFLOCHEM Chemicals Blending LLC	NLD
EC-Uniclean Tank/Separating	EFLOCHEM Chemicals Blending LLC	NLD
EDGE	Drew Marine	USA
Enviro Alka Kleen HD	Enviro-Tech Specialities, Inc.	USA
Enviro Alka Kleen SAF	Enviro-Tech Specialities, Inc.	USA
Enviro Buffer Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro Care 370	Drew Marine	USA
Enviro Caustic (Sodium Hydroxide)	Enviro-Tech Specialities, Inc.	USA
Enviro Chlor	Enviro-Tech Specialities, Inc.	USA
Enviro Citrol Kleen	Enviro-Tech Specialities, Inc.	USA
ENVIRO CLEAN (Code 551020)	Guardian Laboratories Pte. Ltd.	SGP
Enviro Cleaner	StarMarine Chemical	NLD
Enviro HCF Tank Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro HCF Tank Kleen SAF	Enviro-Tech Specialities, Inc.	USA
Enviro Kleen HD	Enviro-Tech Specialities, Inc.	USA
Enviro KOH (Potassium Hydroxide)	Enviro-Tech Specialities, Inc.	USA
Enviro Liquid Alkaline Cleaner/LAC	Enviro-Tech Specialities, Inc.	USA
Enviro Multi Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro P/D Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro Rust Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro Sea Kleen	Enviro-Tech Specialities, Inc.	USA
Enviro Solv	Enviro-Tech Specialities, Inc.	USA
Enviro Teepol	Enviro-Tech Specialities, Inc.	USA
ENVIROCARE 330	Drew Marine	USA
ENVIROCARE 340	Drew Marine	USA

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ENVIROCARE 350	Drew Marine	USA
Envirocare 480	Drew Marine	USA
ENVIROCARE 480	Drew Marine	USA
ENVIROMATE® 2000	Drew Marine	USA
Enviropower HD	CHEMO	GRC
ER-AC	Ertek Chemicals	TUR
ER-AC PLUS	Ertek Chemicals	TUR
ER-APC	Ertek Chemicals	TUR
ER-APC AQUA	Ertek Chemicals	TUR
ER-APC EXTRA 200	Ertek Chemicals	TUR
ER-APC EXTRA 50	Ertek Chemicals	TUR
ERCLEAN BUFFER	Ertek Chemicals	TUR
ERCLEAN CTC	Ertek Chemicals	TUR
ERCLEAN IGS	Ertek Chemicals	TUR
ER-CLEAN SAFETY	Ertek Chemicals	TUR
ERCLEAN-ALCA	ERTEK CHEMICALS	TUR
ERCLEAN-HCF	Ertek Chemicals	TUR
ERCLEAN-HCF CONCENTRATE	ERTEK CHEMICALS	TUR
ERCLEAN-HCOH	ERTEK CHEMICALS	TUR
ERCLEAN-SYNER-G	ERTEK CHEMICALS	TUR
ER-HDC	Ertek Chemicals	TUR
ER-OGR	Ertek Chemicals	TUR
ER-TEEPOL	Ertek Chemicals	TUR
ERTEK CAUSTIC SODA	ERTEK CHEMICALS	TUR
ERTEK NITRIC ACID	ERTEK CHEMICALS	TUR
ERTEK POTASSIUM HYDROXIDE	ERTEK CHEMICALS	TUR
ERTEK SODIUM CARBONATE	ERTEK CHEMICALS	TUR
EUROCLEAN	EUROCHEM SA	GRC
FALCHEM AQUASOLVE	Enerchem (s) Pte Ltd	SGP
FALCHEM Bleach Substitute	Enerchem (S) Pte. Ltd	SGP
FALCHEM Buffer Clean, Tank Cleaner	Enerchem (S) Pte. Ltd	SGP
FALCHEM CITRUS KLEEN	Enerchem (s) Pte Ltd	SGP
FALCHEM Enerpol, Multi Purpose Detergent	Enerchem (S) Pte. Ltd	SGP
FALCHEM ENVIROCLEAN	Enerchem (s) Pte Ltd	SGP
FALCHEM NEUTRAL CLEANER	Enerchem (s) Pte Ltd	SGP
FALCHEM SOLVATE OIL AND GREASE EMULSION	Enerchem (s) Pte Ltd	SGP
FALCHEM TANKLEEN	Enerchem (s) Pte Ltd	SGP
FOAM PLUS	MARICHEM MARIGASES Worldwide	GRC
Fresh Force Kleen	CHEMO	GRC
GCS SUPER	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
Genepol	Unimarine International BV	NLD
Genepol	UNI Americas LLC	USA
Genepol	Blutec srl	ITA
GENEPOL	UNIservice UNISAFE S.r.l.	ITA
General Cleaning & Solvent	MARICHEM MARIGASES Worldwide	GRC
GP Degreaser	Vecom Marine B.V.	NLD
GP Enviro	Vecom Marine B.V.	NLD

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Grato 1 Marine	Henkel Belgium N.V.	BEL
Grato 14 marine	Henkel Belgium N.V.	BEL
Grato 14 marine (US)	Henkel Belgium N.V.	BEL
GRATO 3000 MARINE	Henkel Belgium N.V.	BEL
Grato 50 marine	Henkel Belgium N.V.	BEL
Grato 50 marine (US)	Henkel Belgium N.V.	BEL
Green Care HC	Marine Care cleaning additives	NLD
Green Enviro	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
GreenCare CR	Marine Care	NLD
GreenCare Rust Remover	Marine Care	NLD
GreenCare Synergy	Marine Care cleaning additives	NLD
GREM COLD WASH	KALON S.A. SMYTH MORRIS	ESP
GZ-01 SEA NEUTRAL HCF	GZ CHEMICAL INC	CHL
GZ-02 ECO SEA	GZ CHEMICAL INC	CHL
GZ-03 SEA TUFF	GZ CHEMICAL INC	CHL
GZ-04 ALKA SEA	GZ CHEMICAL INC	CHL
GZ-05 SEA ALKA SAFETY	GZ CHEMICAL INC	CHL
GZ-10 SEA BREAK CLEANER	GZ CHEMICAL INC	CHL
GZ-12 SEA DISPERSANT	GZ CHEMICAL INC	CHL
HAIZEN S-100	KAO CORP.	JPN
HAIZEN T-200	KAO Professional Services CO., Ltd.	JPN
HAIZEN T-300	KAO Professional Services CO., Ltd.	JPN
HAIZEN T-310	KAO Professional Services CO., Ltd	JPN
HD ALKALINE	ALPHA MARINE SOLUTIONS	USA
HD Tank Cleaner	WVT Industries N. V.	BEL
Hexaclean 3126 Alkaline Cleaner	A.I.M. Chemical Industries Pte Ltd	SGP
Hexaclean 3221 MP Detergent	A.I.M. Chemical Industries Pte Ltd	SGP
Hexaclean 3235 Water-Based Rigclean	A.I.M. Chemical Industries Pte Ltd	SGP
Hexaclean 3414 Heavy Duty Degreaser	A.I.M. Chemical Industries Pte Ltd	SGP
HOLDBRITE	CHEMO SA	GRC
HOLDBRITE XF	CHEMO SA	GRC
HOLDCLEAN	ALPHA CHEMICAL PRODUCTS	GRC
HOLDCLEAN XF	ALPHA CHEMICAL PRODUCTS	GRC
Hydrocarbon Remover	UNI Americas LLC	USA
HYDROCARBON X	ALPHA MARINE SOLUTIONS	USA
IGS CLEANER	CHEMO	GRC
IGS MARI-CLEANER	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
Ion and Alkali Cleaning Agent of Jpal	Jpec Co. Ltd	JPN
Ipochlor-Inhibitor Killer	Star Marine Chemicals BV	NLD
K CLEAN AC	K Marine Chemical Co., Ltd.	KOR
K-AQUA CLEAN	K Marine Chemical Co., Ltd.	KOR
KdB Teepol	Marine Care	NLD
KdB Totaal Ontvetter	Marine Care	NLD
KT-AIRFRESH	CHEMTEC Chemicals GmbH	DEU
KT-Alka	CHEMTEC Chemicals GmbH	DEU
KT-AlkaPlus	CHEMTEC Chemicals GmbH	DEU
KT-AlkaPure	CHEMTEC Chemicals GmbH	DEU

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KT-AlkaSafe	CHEMTEC Chemicals GmbH	DEU
KT-Citric	CHEMTEC Chemicals GmbH	DEU
KT-Degreaser	CHEMTEC Chemicals GmbH	DEU
KT-EcoSoft	CHEMTEC Chemicals GmbH	DEU
KT-HCF	CHEMTEC Chemicals GmbH	DEU
KT-Metal	CHEMTEC Chemicals GmbH	DEU
KT-MetalBright	CHEMTEC Chemicals GmbH	DEU
KT-Neutral BG	CHEMTEC Chemicals GmbH	DEU
KT-PLUS	CHEMTEC Chemicals GmbH	DEU
KT-Plus BG	CHEMTEC Chemicals GmbH	DEU
KT-Pure	CHEMTEC Chemicals GmbH	DEU
KT-SeaClean	CHEMTEC Chemicals GmbH	DEU
KT-SMR	CHEMTEC Chemicals GmbH	DEU
KT-Soft	CHEMTEC Chemicals GmbH	DEU
KT-Solve	CHEMTEC Chemicals GmbH	DEU
KT-Teepol	CHEMTEC Chemicals GmbH	DEU
LAC	Drew Marine	USA
Latex Remover	Vecom Marine B.V.	NLD
Lighthouse Alkaline Plus	Lighthouse Maritime Services LLC	BEL
Lighthouse Citric	Lighthouse Maritime Services LLC	BEL
Lighthouse CS Bright	Lighthouse Maritime Services LLC	BEL
Lighthouse LTC Cleaner	Lighthouse Maritime Services LLC	BEL
Lighthouse MS-50	Lighthouse Maritime Services LLC	BEL
Lighthouse Powerwash	Lighthouse Maritime Services LLC	BEL
Lilleborg msgBooster	Lilleborg	NOR
Lilleborg msgBooster HCF	Lilleborg	NOR
Lilleborg msgBrightner	Lilleborg	NOR
Lilleborg msgCleaner	Lilleborg	NOR
Lilleborg Tank Cleaner	Lilleborg	NOR
Lilleborg TankBrightner	Lilleborg	NOR
Lilleborg TankDegreaser	Lilleborg	NOR
Lime Cleaner	MARICHEM MARIGASES Worldwide	GRC
LIME OUT	CHEMO SA	GRC
Liquid 35 NF	TriStar Industries BV	NLD
Liquid soap	Star Marine	NLD
LIQUID SOAP	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
MAC Alkid	MASTEC Co. Ltd	JPN
MAC Dual Clean	MASTEC Co. Ltd	JPN
MAC HC-10	MASTEC Co. Ltd	JPN
MAC HD	MASTEC Co. Ltd	JPN
MAC Prime	MASTEC Co. Ltd	JPN
MAC Safety Alkid	MASTEC Co. Ltd	JPN
MAC Susbright	MASTEC Co. Ltd	JPN
MAC-100	MASTEC Co. Ltd	JPN
Marclean AC	A Clean Partner Int. AB	SWE
Marclean AC+	A Clean Partner Int. AB	SWE
MarClean BioSolve Tank CC	The BioSolve Company	USA

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Marclean CO - 1	Teco Chemicals AS	NOR
MarClean DA Special	TECO Chemicals AS	NOR
Marclean ECO	TECO Maritime Far East Pte Ltd	SGP
Marclean GREEN	TECO Maritime Far East Pte Ltd	SGP
Marclean H60	Teco Chemicals AS	NOR
Marclean H60+	A Clean Partner Int. AB	SWE
Marclean HC	TECO Chemicals AS	NOR
Marclean HCR	A Clean Partner Int. AB	SWE
Marclean MB (Metal Bright)	Teco Chemicals AS	NOR
Marclean MB40	A Clean Partner Int. AB	SWE
Marclean SC	Teco Chemicals AS	NOR
Marclean Soap	A Clean Partner Int. AB	SWE
Marclean Solve	A Clean Partner Int. AB	SWE
MarClean XP	A Clean Partner International AB	SWE
MARICHEM CR - LT	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
MARICHEM PCS	MARICHEM MARIGASES Worldwide	GRC
MARICHEM TTC	MARICHEM MARIGASES Worldwide	GRC
MARICLEAN - POL	MARICHEM MARIGASES Worldwide	GRC
MARICLEAN DG-25	Marichem Marigases Worldwide Services	GRC
MARICLEAN PCS	Marichem Marigases Worldwide Services	GRC
MARINE CARE (HD)	INFINITY ENTERPRISES, INC.	JPN
MARINE CARE (SB)	INFINITY ENTERPRISES, INC.	JPN
MARINE CARE (SC)	INFINITY ENTERPRISES, INC.	JPN
MARINE CLEAN (HD)	INFINITY ENTERPRISES, INC.	JPN
MARINE CLEAN (SB)	INFINITY ENTERPRISES, INC.	JPN
MARINE CLEAN (SC)	INFINITY ENTERPRISES, INC.	JPN
MARINE SAFE (HD)	INFINITY ENTERPRISES, INC.	JPN
MARINE SAFE (SB)	INFINITY ENTERPRISES, INC.	JPN
MARINE SAFE (SC)	INFINITY ENTERPRISES, INC.	JPN
MARISOL	UNIservice UNISAFE S.r.l.	ITA
MARISOL GD	A Clean Partner	SWE
MARISOL HD	A Clean Partner	SWE
MARISOL LC	A Clean Partner	SWE
MARISOL NC	A Clean Partner	SWE
MARISOL RW	A Clean Partner	SWE
MARISOL TC	A Clean Partner	SWE
MARISOL VT - PLUS	A Clean Partner	SWE
Masava Tank Cleaner	Masava Kemi ApS	DNK
Metal Brite HD	Wilhelmsen Chemicals AS	NOR
Metal Deruster	StarMarine Chemical BV	NLD
MITE	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
Multi Cleaner	Vecom Marine B.V.	NLD
Multicleaner	StarMarine Chemical BV	NLD
MULTICLEANER	Ertek Chemicals	TUR
NA marine	Henkel Belgium N.V.	BEL
Natural	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
Natural HCF	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR

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NAVACLEAN 801 - ALKATUFF	NAVADAN APS	DNK
NAVACLEAN 802 - ALKATUFF SOFT	Navadan ApS	DNK
NAVACLEAN 803 - ALKATUFF PHS	NAVADAN APS	DNK
NAVACLEAN 809 - TEEPOL PLUS	NAVADAN APS	DNK
NAVACLEAN 814 - DYESTUFF REMOVER	NAVADAN APS	DNK
NAVACLEAN 818 - COLDWASH	NAVADAN APS	DNK
NAVACLEAN 823 - BUFFERCLEANER 55	NAVADAN APS	DNK
NAVACLEAN 823 (CON) BUFFER CLEANER 55	NAVADAN APS	DNK
NAVACLEAN 842 - ALKASAFE	NAVADAN APS	DNK
NAVACLEAN 848 - NEUTRAL CLEANING CONCENTRATE	NAVADAN APS	DNK
NAVACLEAN 850 - WATERBASED NEUTRAL HCF	NAVADAN APS	DNK
NAVACLEAN 855 - HYDROCARBON REMOVER	NAVADAN APS	DNK
NAVACLEAN 856 - ECOCLEAN	NAVADAN APS	DNK
NAVACLEAN 860 - SEACLEAN GP	NAVADAN APS	DNK
NAVACLEAN 865 - CC BOOSTER	Navadan ApS	DNK
NAVACLEAN 873 - RUST & STAIN REMOVER	NAVADAN APS	DNK
NAVACLEAN 874 - RS BASIC	Navadan ApS	DNK
NAVACLEAN 888 - SEACLEAN	NAVADAN APS	DNK
NAVACLEAN 897 - IGS CLEANER	NAVADAN APS	DNK
NAVACLEAN 897 (CON) - IGS CLEANER	NAVADAN APS	DNK
Navaclean Stench Remover	Navadan APS	DNK
NAVAFLOR 812	NAVADAN APS	DNK
NEUTRAL CLEANER	MARICHEM MARIGASES Worldwide	GRC
Neutral HCF	Star marine Chemicals B.V.	NLD
NEUTRAL HCF CLEANER	CHEMO SA	GRC
NEUTRAL MARINE HCF	CHEM MARINE	CHL
NEUTRAL POWER TC	ALPHA CHEMICAL PRODUCTS	GRC
NOHYCAS (hydro carbon cleaner)	For Frame	NLD
Novaclean 300 marine	Henkel Belgium N.V.	BEL
Novaclean 400 marine	Henkel Belgium N.V.	BEL
Novoclean 200 marine	Henkel Belgium N.V.	BEL
OCN - 01 Alkaline Cleaner	OCN Marine Chemicals	CHL
OCN - 02 Alkaline Safety	OCN Marine Chemicals	CHL
OCN - 03 Eco-Cleaner	OCN Marine Chemicals	CHL
OCN - 04 Maxpol	OCN Marine Chemicals	CHL
OCN - 05 Sea Clean (Tank Cleaner)	OCN Marine Chemicals	CHL
Oil & Sludge Remover	CHEMO	GRC
OIL AND GREASE REMOVER	Marichem Marigases Worldwide Services	GRC
OIL AND GREASE REMOVER HD 999	MARICHEM MARIGASES Worldwide	GRC
Oil Spill Dispersant Type 1	Vecom Marine B.V.	NLD
OTM-AL CLEANER	ONE-TOP MARINE Co. Ltd.	KOR
OTM-AL CLEANER PLUS	ONE-TOP MARINE Co. Ltd.	KOR
OTM-HCR CLEANER	ONE-TOP MARINE Co. Ltd.	KOR
OTM-MSC CLEANER	ONE-TOP MARINE Co. Ltd.	KOR
OTM-NEUTRAL CLEANER	ONE-TOP MARINE Co. Ltd.	KOR
OTM-NLS CLEANER	ONE-TOP MARINE Co. Ltd.	KOR
P3 - GRATOSOL	CP METAL CHEMICALS	NLD

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P3 grato 14BNL	Henkel Belgium N.V.	BEL
POWER-KLEEN	ALPHA CHEMICAL PRODUCTS	GRC
PRE-WASH	EUROCHEM SA	GRC
Product Formula 3	Drew Marine	USA
Product Formula 4	Drew Marine	USA
Product Formula 5	Drew Marine	USA
Quick Split Cleaner	Vecom Marine B.V.	NLD
Ready	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
Redox Heavy Duty Cleaner	REDOX CHEMICAL PTE LTD	SGP
Redox Heavy Duty Tank Cleaner	REDOX CHEMICAL PTE LTD	SGP
Redox Metal Brightener	REDOX CHEMICAL PTE LTD	SGP
Redox Multi-Purpose Cleaner	REDOX CHEMICAL PTE LTD	SGP
Redox Oil Spill Dispersant & Tank Cleaning Additive	REDOX CHEMICAL PTE LTD	SGP
Redox Twiinstart	REDOX CHEMICAL PTE LTD	SGP
Redox Water-Based Hydro-Carbon Free (HCF) Cleaner	REDOX CHEMICAL PTE LTD	SGP
Rem-25	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
Resin Stripper	Vecom Marine B.V.	NLD
ROX@CARE AC80SL ALKALI TANK & PIPE CLEANER	CALLINGTON HAVEN PTY LTD	AUS
ROX@CARE MC2600 TANK CLEANER	CALLINGTON HAVEN PTY LTD	AUS
RUST CLEAN	Blutec srl.	ITA
Rust Off	UNI Americas LLC	USA
Rust Remover	Vecom Marine B.V.	NLD
RUST REMOVER	Ertek Chemicals	TUR
SAFETY ALKALINE	ALPHA MARINE SOLUTIONS	USA
SAFETY DEGREASER	ALPHA MARINE SOLUTIONS	USA
SC-1000	Infinity Enterprises, Inc	JPN
Sea Clean Plus	Wilhelmsen Chemicals AS	NOR
SEA CLEANER WCI	World Clean International	PAN
Seaclean	Unimarine International BV	NLD
Seaclean	UNI Americas LLC	USA
SEACLEAN	UNIservice UNISAFE S.r.l	ITA
SEACLEAN T	Blutec srl.	ITA
Seaclean Voyage	Vecom Marine B.V.	NLD
SHIP 101 SEACLEAN	Shipdan Aps	DNK
SHIP 102 ALKALINE PHS	Shipdan Aps	DNK
SHIP 103 ALKALINE	Shipdan Aps	DNK
SHIP 105 HYDROCARBON REMOVER	Shipdan Aps	DNK
SHIP 106 TEEPOL	Shipdan Aps	DNK
SHIP 107 NEUTRAL CLEANING	Shipdan Aps	DNK
SHIP 108 SOOT REMOVER	Shipdan Aps	DNK
SHIP 109 SOLVENT	Shipdan Aps	DNK
SHIP 110 ALKALINE SAFETY	Shipdan Aps	DNK
SHIP 111 WATERBASED NEUTRAL HCF	Shipdan Aps	DNK
SHIP 114 BUFFER	Shipdan Aps	DNK
SM-80	KALON S.A. SMYTH MORRIS	ESP
SMART KLEEN	Chemax and Phypers Company Limited	THA
Sodium Hypochlorite	Wilhelmsen Chemicals AS	NOR

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Sodium Hypochlorite 12.5% DM	Drew Marine	USA
SOLBREAK	MARICHEM MARIGASES Worldwide	GRC
Solvent Cleaner	Star Marine Chemicals BV	NLD
SPILL DISPERSANT MARINE	CHEM MARINE	CHL
Starmarine Caus	Star Marine Chemicals BV	NLD
StarMarine Concentrate	Star Marine Chemicals BV	NLD
Starmarine G-EB	Star Marine Chemicals BV	NLD
StarMarine Special	Star Marine Chemicals BV	NLD
Steam Cleaner 155	WVT Industries N. V.	BEL
Steamclean Extra	Vecom Marine B.V.	NLD
Steamer 130 HD	TriStar Industries BV	NLD
Steamer 140 HD	Tristar Industries BV	NLD
STSC CPPCLEAN	Eazychem Ltd	GBR
STSC DPPCLEAN	Eazychem Ltd	GBR
STSC DPPCLEAN ECO	Eazychem Ltd	GBR
STSC VEGCLEAN	Eazychem Ltd	GBR
Super Cleaner Y-SP 2	TriStar Industries BV	NLD
SUPER DEGREASER	CP METAL CHEMICALS	NLD
Super Red	CHEMO	GRC
Super Red Plus	CHEMO	GRC
SUPER TEEPOL	Diversey Co. Ltd.	JPN
T 1166 marine	Henkel Belgium N.V.	BEL
T 1166 marine (US)	Henkel Belgium N.V.	BEL
Tank & Bilge Cleaner	CHEMO	GRC
Tank Bright	Chemax and Phypers Company Limited	THA
Tank Clean Alkaline	Vecom Marine B.V.	NLD
Tank Clean Alkaline Extra	Vecom Marine B.V.	NLD
Tank Clean Buffer	Vecom Marine B.V.	NLD
TANK CLEAN MARINE	CHEM MARINE	CHL
TANK CLEANER	Ertek Chemicals	TUR
Tank Cleaner A	Marichem Marigases Worldwide Services	GRC
TANK CLEANER EXTRA	Ertek Chemicals	TUR
TANK CLEANER S	MARICHEM MARIGASES Worldwide	GRC
Tank Cleaning Cat	WVT Industries N. V.	BEL
Tank Green	Chemax and Phypers Company Limited	THA
Tank Shine	AYT Endustriyel Kimya Sansayi Ltd. STI	TUR
TANK SHINE CLEANER	MARICHEM MARIGASES WORLDWIDE SERVICES	GRC
Tank Super Cleaner	CHEMO	GRC
TANK TREAT ALK	MAT MARITIME	TUR
TANK TREAT SAFE ALK	MAT MARITIME	TUR
TANK WASH	EUROCHEM SA	GRC
TANK WASH-S	EUROCHEM SA	GRC
Tankclean HCF Eco	Vecom Marine B.V.	NLD
Tankclean HD Split	Vecom Marine B.V.	NLD
Tankclean Neutral	Vecom Marine B.V.	NLD
TankCleaner	Star Marine Chemicals BV	NLD
TANKCLEANER 9M	UNI Americas LLC	USA

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TANKCLEANER P75	UNI Americas LLC	USA
Tankleen Advance	Wilhelmsen Chemicals AS	NOR
Tankleen Bright	Wilhelmsen Chemicals AS	NOR
TANKLEEN IGS	ALPHA CHEMICAL PRODUCTS	GRC
TANKLEEN SWIFT	Wilhelmsen Chemicals AS	NOR
TANKLEEN TAR	Wilhelmsen Chemicals AS	NOR
TANKSHINE	CHEMO	GRC
TC-01 - Heavy Duty Alkaline Tank Cleaner	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-02 - Non-Caustic Alkaline Tank Cleaner	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-03 - Non-Toxic, Water-Based Safety Alkaline Cleaner	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-04 - Heavy Duty Concentrated Tank Cleaner	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-05 - Solvent Based Tank Cleaner	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-06 - Heavy Duty Water Based Hydrocarbon Free	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-07 - Water-Based Neutral Tank Cleaning Detergent	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-10 - Rust and Oxidation Remover for NLS Cargo Tank cleaning	ANMAR ENDUSTRIYEL KIMYA SAN. TIC. LTD. STI	TUR
TC-ACID	G&E Bridge Ltd	KOR
TC-ALK	CEMKIMSAN KIMYA SAN.TIC.LTD.STI	TUR
TC-BC	G&E Bridge Ltd	KOR
TC-ENVIRO	G&E Bridge Ltd	KOR
TC-HD	G&E Bridge Ltd	KOR
TC-NEUTRAL	G&E Bridge Ltd	KOR
TC-PCT	G&E Bridge Ltd	KOR
TCS-3	New Shin Young Co., Ltd.	KOR
TCS-3 PLUS	New Shin Young Co., Ltd.	KOR
TCS-3T	New Shin Young Co., Ltd.	KOR
TCS-5	New Shin Young Co., Ltd.	KOR
TC-SOL	CEMKIMSAN KIMYA SAN. TIC.LTD.STI	TUR
TCS-PARA	New Shin Young Co., Ltd.	KOR
TCS-RSR	New Shin Young Co., Ltd.	KOR
TCS-SCMR	New Shin Young Co., Ltd.	KOR
TC-WAT	CEMKIMSAN KIMYA SAN. TIC.LTD.STI	TUR
TC-WRC	G&E Bridge Ltd	KOR
Teco Caustic	Teco Chemicals AS	NOR
TECO CHLOR	Teco Chemicals AS	NOR
Teco Potassium (Potassium Hydroxide)	Teco Chemicals AS	NOR
Teepol	Star Marine	NLD
TEEPOL EIGHT	Diversey Co. Ltd.	JPN
TEEPOL MARINE	CHEM MARINE	CHL
TRIOALK-212	TIRIO KIMYA SAN. Ve. TIC. LTD. STI	TUR
TRIOALK-212/EXTRA	TIRIO KIMYA SAN. Ve. TIC. LTD. STI	TUR
TRIOBREAK-196	TIRIO KIMYA SAN. Ve. TIC. LTD. STI	TUR
TRIOTANK	TIRIO KIMYA SAN. Ve. TIC. LTD. STI	TUR
TRIOTANK/R	TIRIO KIMYA SAN. Ve. TIC. LTD. STI	TUR
TS-200	SETTSU OIL MILL, INC.	JPN
TS-300	SETTSU OIL MILL, INC.	JPN
TS-310	SETTSU OIL MILL, INC.	JPN
UE-ALKALINE	UNIVERSAL ECO CHEMICAL	KOR

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UE-NEUTRAL	UNIVERSAL ECO CHEMICAL	KOR
UE-RSR	UNIVERSAL ECO CHEMICAL	KOR
ULTRA CLEAN	ALPHA MARINE SOLUTIONS	USA
Uni Green	Chemax and Phypers Company Limited	THA
UNI PARACLEAN	UNI Americas LLC	USA
Uniclean Break	Unimarine International BV	NLD
UNICLEAN DRASTIC	UNIservice UNISAFE S.r.l.	ITA
Uniclean Eco	Unimarine International BV – Eflochem	NLD
UNICLEAN GP	UNIservice UNISAFE S.r.l.	ITA
Uniclean GP Extra	Unimarine International BV	NLD
Uniclean HCF Eco	Unimarine International BV	NLD
Uniclean HD	UNI Americas LLC	USA
Uniclean IG	UNI Americas LLC	USA
Uniclean Resin Remover	Unimarine International BV	NLD
Uniclean Rust Remover	Unimarine International BV	NLD
Uniclean Steam Cleaner	Unimarine International BV	NLD
Uniclean Tank / Separating	Unimarine International BV	NLD
Unipol	Wilhelmsen Chemicals AS	NOR
UNITEDCHEM-ALC	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-ALC/PLUS	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-AQUA	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-CONCENTRATE	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-CTR	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-HCF	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-MPD	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-RUST	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-SAFE	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-SAFE/PLUS	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-TANK	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
UNITEDCHEM-TANK/PLUS	TIRIO KIMYA SAN.TIC.LTD.STI	TUR
Veclean Blue	Vecom Marine B.V.	NLD
Veclean Eco Acid	Vecom Marine B.V.	NLD
WAX FREE	Chemax and Phypers Company Limited	THA
WB Neutral HCF	UNI Americas LLC	USA
Zinc Coat Conditioner	Wilhelmsen Chemicals AS	NOR

ANNEX 11

Biofuels recognized under the 2019 Guidelines for the carriage of blends of biofuels and MARPOL Annex I cargoes

The following have been agreed as recognized bio-fuels in accordance with the *2019 Guidelines for the carriage of blends of biofuels and MARPOL Annex I cargoes* (MSC-MEPC.2/Circ.17):

- .1 tert-Amyl ethyl ether*
- .2 Ethyl alcohol
- .3 Fatty acid methyl esters (FAME) † (m)
- .4 Vegetable fatty acid distillates (m)

* With regard to the shipment of blends of petroleum oil and tert-Amyl ethyl ether under MARPOL Annex II controls, it is necessary to initiate or refer to tripartite agreements for such blends indicating the carriage requirements as appropriate.

† This entry is intended to include any specific FAMEs set out in chapter 17 of the IBC Code or the MEPC.2/Circular.

ANNEX 12

ENERGY-RICH FUELS SUBJECT TO ANNEX I OF MARPOL

The following have been agreed as recognized energy-rich fuels in accordance with the *Guidelines for the carriage of energy-rich fuels and their blends* (MEPC.1/Circ.879):

- .1 Alkanes (C4-C12) linear, branched and cyclic (containing benzene up to 1%)
 - .2 Alkanes (C5-C7), linear and branched
 - .3 Alkanes (C9-C24) linear, branched and cyclic with a flashpoint $\leq 60^{\circ}\text{C}$
 - .4 Alkanes (C9-C24) linear, branched and cyclic with a flashpoint $> 60^{\circ}\text{C}$
 - .5 Alkanes (C10-C17), linear and branched
 - .6 Alkanes (C10-C26), linear and branched with a flashpoint $\leq 60^{\circ}\text{C}$
 - .7 Alkanes (C10-C26), linear and branched with a flashpoint $> 60^{\circ}\text{C}$
-