

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: ST-A.27.01 Issue date: 03/07/2018 Revision date: 17/03/2023 Supersedes version of: 10/10/2022 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Product name Product code

· Mixture 43930 - LHM FLUID 43930

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public Main use category Function or use category

: Industrial use, Professional use, Consumer use

: Hydraulic fluids and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V. NL- 1761 JA The Netherlands T +31 (0)78 6527652 technical@77lubricants.nl - www.77lubricants.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard, Category 1 H304 Hazardous to the aquatic environment - Chronic Hazard,

H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Category 3

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

	 Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions. P273 - Avoid release to the environment. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P331 - Do NOT induce vomiting.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077- 29	≥ 25 – < 90	Not classified
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	EC-No.: 934-954-2 REACH-no: 01-2119826592- 36	≥ 45 - < 90	Asp. Tox. 1, H304
2,6-Di-tert-butylphenol substance with a Community workplace exposure limit	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	< 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tris(methylphenyl) phosphate substance with national workplace exposure limit(s) (DE)	CAS-No.: 1330-78-5 EC-No.: 215-548-8 EC Index-No.: 015-016-00-3 REACH-no: 01-2119531335- 46	< 1	Repr. 2, H361f Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Specific concentration limits:	ic concentration limits:			
Name Product identifier		Specific concentration limits (%)		
2,6-Di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	(35 ≤ C < 100) Skin Irrit. 2, H315		

Full text of H- and EUH-statements: see section 16

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

4.1. Description of first aid measures First-aid measures general : Call a physician immediately. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution. First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects after ingestion : Risk of lung oedema. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.	SECTION 4: First aid measures					
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution. First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately. 4.2. Most important symptoms and effects. both acute and delayed Symptoms/effects after ingestion : Risk of lung oedema. 4.3. Indication of any immediate medical attention and special treatment needed	4.1. Description of first aid measures					
Symptoms/effects after ingestion : Risk of lung oedema. 4.3. Indication of any immediate medical attention and special treatment needed	First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. 				
4.3. Indication of any immediate medical attention and special treatment needed	4.2. Most important symptoms and ef	fects, both acute and delayed				
	Symptoms/effects after ingestion	: Risk of lung oedema.				
Treat symptomatically.	4.3. Indication of any immediate medi	cal attention and special treatment needed				
	Treat symptomatically.					

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a water jet since it may cause the fire to spread.
5.2. Special hazards arising from the subst	ance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures					
6.1. Personal precautions, protectiv	6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel					
Protective equipment Emergency procedures	Wear recommended personal protective equipment.Ventilate spillage area.				
6.1.2. For emergency responders					
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up				
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.			
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				

For further information refer to section 13.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 7: Handling and stora	ge		
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.		
Handling temperature	: ≤ 40 °C		
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities			
7.2. Conditions for safe storage, inc	cluding any incompatibilities		
Technical measures	: Provide local exhaust or general room ventilation.		
Technical measures	: Provide local exhaust or general room ventilation.		
Technical measures Storage conditions	Provide local exhaust or general room ventilation.Store locked up. Store in a well-ventilated place. Keep cool.		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
EU - Indicative Occupational Exposure Limit (IOEL)	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	WEL TWA (OEL TWA) [1] 5 mg/m ³		
2,6-Di-tert-butylphenol (128-39-2)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA 3.5 mg/m ³			

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

	Hand protection	and protection				
Type Material			Permeation	Thickness (mm)	Penetration	Standard
	Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds, Type P2	If conc. in air > exposure limit	EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: Green.		
Odour	: Not available		
Odour threshold	: Not available		
Melting point	: Not applicable		
Freezing point	: -51 °C (ASTM D7346)		
Boiling point	Not available		
Flammability	: Non flammable.		
Lower explosion limit	: 0.5 vol %		
Upper explosion limit	: 5 vol %		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Flash point	: 125 °C (ASTM D92)
Auto-ignition temperature	: 200 °C
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 18 mm²/s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.1 hPa @ 20°C
Vapour pressure at 50°C	: Not available
Density	: 840 kg/m³ @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content

: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information				
11.1. Information on hazard classes as defined	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classified				
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test			
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test			
LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test				
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics				
LD50 oral (rat)	> 5000 mg/kg OECD 401			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics				
LD50 dermal (rabbit)	> 2000 mg/kg OECD 402			
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.266 mg/l/4h OECD 403			
2,6-Di-tert-butylphenol (128-39-2)	·			
LD50 oral (rat)	> 5000 mg/kg bodyweight OECD Guideline 401 (Acute Oral Toxicity)			
LD50 dermal (rabbit)	> 2000 mg/kg OECD Guideline 402 (Acute Dermal Toxicity)			
Tris(methylphenyl) phosphate (1330-78-5)				
LD50 oral (rat)	> 3700 mg/kg bodyweight			
LD50 dermal (rabbit)	> 10000 mg/kg bodyweight			
LC50 inhalation (rat) (mg/l)	> 11.1 mg/l (aerosol, 1h)			
Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity : STOT-single exposure : STOT-repeated exposure : Distillates (petroleum), hydrotreated light para LOAEL (oral, rat, 90 days) 2,6-Di-tert-butylphenol (128-39-2)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)			
NOAEL (subchronic, oral, animal/male, 90 days)	270 mg/kg bodyweight			
Tris(methylphenyl) phosphate (1330-78-5)				
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat			
Aspiration hazard :	May be fatal if swallowed and enters airways.			
43930 - LHM FLUID				
Viscosity, kinematic	18 mm²/s @ 40°C (ASTM D7042)			
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
Viscosity, kinematic	< 20.5 mm²/s @40°C			
2,6-Di-tert-butylphenol (128-39-2)	2,6-Di-tert-butylphenol (128-39-2)			
Viscosity, kinematic	Not applicable			
11.2. Information on other hazards				

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Hazardous to the aquatic environment, short-term		Harmful to aquatic life with long lasting effects. Not classified
(acute) Hazardous to the aquatic environment, long-term (chronic)	:	Harmful to aquatic life with long lasting effects.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

istillates (petroleum), hydrotreat		
.C50 - Fish [1]	> 100 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat	
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)	
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)	
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)	
Hydrocarbons, C13-C16, n-alkanes	s, isoalkanes, cyclics, < 0.03% aromatics	
LC50 - Fish [1]	> 1000 mg/l (Scophthalmus maximus, 96h) [OECD 203]	
EC50 - Crustacea [1]	> 3193 mg/l (Acartia tonsa, 48h) [ISO 14669]	
EC50 72h - Algae [1]	> 1000 mg/l (Skeletonema costatum, 72h) [ISO 10253]	
NOEC chronic fish	> 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox, 28d)	
NOEC chronic crustacea > 1000 mg/l (Daphnia magna - QSAR Petrotox, 21d)		
2,6-Di-tert-butylphenol (128-39-2)		
LC50 - Fish [1]	1.4 mg/l Pimephales promelas (OECD 204)	
EC50 - Crustacea [1]	0.45 mg/l Daphnia magna	
EC50 72h - Algae [1]	1.4 mg/l Pseudokirchneriella subcapitata (US-EPA)	
LOEC (chronic)	0.086 mg/l Daphnia magna Duration: '21 d'	
NOEC chronic crustacea	0.035 mg/l Daphnia magna (OECD 211) (21d)	
NOEC chronic algae	0.64 mg/l Pseudokirchneriella subcapitata (96h)	
Tris(methylphenyl) phosphate (13	30-78-5)	
LC50 - Fish [1]	0.6 mg/l Test organisms (species): other: rainbow trout and fathead minnow	
EC50 - Crustacea [1]	14 μg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	0.4 mg/l Desmodesmus subspicatus	
NOEC (chronic)	0.01 mg/l Jordanella floridae	
NOEC chronic fish	0.01 mg/l Jordanella floridae (28d)	

43930 - I HM FI UID

43930 - LHM FLUID			
Persistence and degradability	Readily biodegradable.		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
Biodegradation 31 % OECD TG 301 F (28d)			
2,6-Di-tert-butylphenol (128-39-2)			
Biodegradation 12 – 24 % OECD 302 C (28d)			
Tris(methylphenyl) phosphate (1330-78-5)			
Biodegradation 80 % OECD 301C (28d)			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.3. Bioaccumulative potential			
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
Partition coefficient n-octanol/water (Log Pow) > 6			
2,6-Di-tert-butylphenol (128-39-2)			
Partition coefficient n-octanol/water (Log Kow)	4.5		
Tris(methylphenyl) phosphate (1330-78-5)			
Partition coefficient n-octanol/water (Log Pow) 5.93			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
No additional information available			

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods Sewage disposal recommendations European List of Waste (LoW, EC 2000/532) HP Code	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not remove as household garbage. Do not flush into surface water or sewer system. 13 01 10* - mineral based non-chlorinated hydraulic oils HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for on or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID number					
Not regulated for transport					
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable Not applicable Not applicable Not applicable					
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content

: 0 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.2	Precautionary statements (CLP)	Modified	
8.2	Eye protection	Added	
8.2	Hand protection	Added	
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	
9.1	Freezing point	Modified	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Asp. Tox. 1	Aspiration hazard, Category 1	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H361f	Suspected of damaging fertility.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.