

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 20/02/2018 Revision date: 06/09/2019 Supersedes version of: 27/04/2019 Version: 5.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture 77510 - Marine Oil CO 570 Product name · Product code : 77510 Type of product ÷ Lubricant 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Professional use Use of the substance/mixture : Lubricants and additives 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Transnational Blenders B.V. Wieldrechtseweg 37 3316 BG Dordrecht - Netherlands T +31 (0)78 6527652 technical@tnb.nl - www.tnb.nl 1.4. Emergency telephone number +31 (0)78 6527652 Emergency number Monday to Friday: 09:00 - 16:00 (CET) **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II) Not classified Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] EUH-statements : EUH210 - Safety data sheet available on request. 2.3. Other hazards

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 is 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

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

## Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	25 – 50	Asp. Tox. 1, H304
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50	CAS-No.: 68784-26-9 EC-No.: 701-251-5 REACH-no: 01-2119524004- 56	2.5 – 5	Aquatic Chronic 4, H413
Ethylene Glycol substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	0.1 – 2.5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Phenol, dodecyl-, branched (Impurity)	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207- 49	0.1 – 2.5	Repr. 1B, H360F Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
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	: Call a poison center or a doctor if you feel unwell.

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa	ance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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. Notify aut	horities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.</li> </ul>
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.	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	<ul> <li>Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.</li> </ul>
Hygiene measures	<ul> <li>Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.
Storage temperature	: ≤ 45 °C
7.3. Specific end use(s)	
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 heavy paraffinic; Baseoil (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m <sup>3</sup>		

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Ethylene Glycol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylene glycol	
IOEL TWA	52 mg/m <sup>3</sup>	
IOEL STEL	104 mg/m <sup>3</sup>	
IOEL STEL [ppm]	40 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	52 mg/m <sup>3</sup> 8 Hrs	
WEL STEL (OEL STEL)	104 mg/m³ 15 Min	

#### 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 symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

#### Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN ISO 374
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN ISO 374

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#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

#### 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

1		
Physical state	: Liquid	
Colour	: Not avai	lable
Odour	: Not avai	lable
Odour threshold	: Not avai	lable
Melting point	: Not appl	icable
Freezing point	: -12 °C	
Boiling point	: Not avai	lable
Flammability	: Not appl	icable
Explosive limits	: Not avai	lable
Lower explosive limit (LEL)	: Not avai	lable
Upper explosive limit (UEL)	: Not avai	lable
Flash point	: > 180 °C	;
Auto-ignition temperature	: Not avai	lable
Decomposition temperature	: Not avai	lable
рН	: Not avai	lable
Viscosity, kinematic	: 213 mm	²/s
Solubility	: insoluble	e in water.
Partition coefficient n-octanol/water (Log Kow)	: Not avai	lable
Vapour pressure	: Not avai	lable
Vapour pressure at 50 °C	: Not avai	lable
Density	: 937.8	
Relative density	: Not avai	lable
Relative vapour density at 20 °C	: Not avai	lable
Particle size	: Not appl	icable
Particle size distribution	: Not appl	icable
Particle shape	: Not appl	icable
Particle aspect ratio	: Not appl	icable
Particle aggregation state	: Not appl	icable
Particle agglomeration state	: Not appl	icable
Particle specific surface area	: Not appl	icable
Particle dustiness	: Not appl	icable

#### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

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#### **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 in Regulation (EC) No 1272/2008		
Acute toxicity (dermal)	Not classified Not classified Not classified	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
LD50 oral (rat)	> 5000 mg/kg bodyweight	
LD50 dermal (rabbit)	> 5000 mg/kg	
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h	
Ethylene Glycol (107-21-1)		
LD50 oral (rat)	7712 mg/kg bodyweight	
LD50 dermal	3500 mg/kg mouse	
LC50 inhalation (rat) (mg/l)	> 2.5 mg/l	
ATE CLP (oral)	500 mg/kg bodyweight	
Phenol, dodecyl-, branched (121158-58-5)		
LD50 oral (rat)	2100 mg/kg bodyweight	
LD50 dermal (rabbit)	≈ 15000 mg/kg bodyweight	
ATE CLP (oral)	2100 mg/kg bodyweight	

Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 (68784-26-9)

LD50 oral (rat)	> 5000 mg/kg bodyweight
LD50 dermal (rabbit)	> 4000 mg/kg bodyweight
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Ethylene Glycol (107-21-1)		
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight mouse, male	
Reproductive toxicity : Not classified		
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Distillates (petroleum), hydrotreated heavy	paraffinic; Baseoil (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
Ethylene Glycol (107-21-1)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
	15 branched olefins (C12 rich) derived from propene oligomerization, urized including distillates (petroleum), hydrotreated, solvent-refined, solvent- avy paraffinic C15-C50 (68784-26-9)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight	
NOAEL (dermal, rat/rabbit, 90 days)	≈ 250 mg/kg bodyweight	
Aspiration hazard	: Not classified	
77510 - Marine Oil CO 570		
Viscosity, kinematic	213 mm <sup>2</sup> /s	
11.2. Information on other hazards		

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Not classified
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss
NOEC chronic crustacea	10 mg/l Daphnia magna
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata
Ethylene Glycol (107-21-1)	
LC50 - Fish [1]	72860 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other:green algae
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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Ethylene Glycol (107-21-1)			
NOEC (chronic)	≥ 1000 mg/l Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'		
Threshold limit - Algae [1]	10000 mg/l 168 Hrs		
Threshold limit - Algae [2]	2000 mg/l 192 Hrs		
Phenol, dodecyl-, branched (121158-58-5)			
LC50 - Fish [1]	40 mg/l		
EC50 - Crustacea [1]	0.037 mg/l Daphnia magna		
EC50 72h - Algae [1]	0.15 mg/l Desmodesmus subspicatus		
EC50 72h - Algae [2]	0.36 mg/l Desmodesmus subspicatus		
LOEC (chronic)	0.012 mg/l Daphnia magna		
NOEC (chronic)	0.0037 mg/l Daphnia magna		
NOEC chronic crustacea	3.7 µg/L		
NOEC chronic algae	360 µg/L		

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LC50 - Fish [1]	1000 mg/kg
EC50 - Crustacea [1]	1000 mg/l
EC50 72h - Algae [1]	500 mg/l
NOEC chronic algae	500 mg/l

## 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % 28 d OECD 301F	
Ethylene Glycol (107-21-1)		
Persistence and degradability	Readily biodegradable. easily degradable in the soil.	
Biodegradation	90 %	
Phenol, dodecyl-, branched (121158-58-5)		
Biodegradation	7.8 % OESO 301B	
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-		

dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 (68784-26-9)

Persistence and degradability	Not readily biodegradable.		
Biodegradation 13.4 % 28 Days			
12.3. Bioaccumulative potential			
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)			
Partition coefficient n-octanol/water (Log Kow) > 4			

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0 .36 @25°C		
36 @25°C		
Phenol, dodecyl-, branched (121158-58-5)		
94.33		
14		

Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 (68784-26-9)

BCF - Fish [1]	2.2 14 Days
Bioconcentration factor (BCF REACH)	2.2
Partition coefficient n-octanol/water (Log Pow)	9.5

12.4. Mobility in soil

## Ethylene Glycol (107-21-1)

Surface tension	0.048 N/m @20°C

Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 (68784-26-9)

Ecology - soil	Adsorbs into the soil.
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 considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

In accordance with ADR / IMD	DG / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group		·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards	·		
	Not applicable	Not applicable	Not applicable	Not applicable

### 14.6. Special precautions for user

#### **Overland transport**

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

## Inland waterway transport

Not applicable

#### **Rail transport**

Not applicable

### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 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	Added	

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Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Hazard pictograms (CLP)	Removed	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
4.1	First-aid measures general	Removed	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Modified	
7.2	Storage conditions	Modified	
8.2	Respiratory protection	Modified	
8.2	Personal protective equipment	Added	
8.2	Hand protection	Modified	
16	Abbreviations and acronyms	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	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
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	

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Abbreviations and acronyms		
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Full text of H- and EUH-statements		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H360F	May damage fertility.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
EUH210	Safety data sheet available on request.	

Safety Data Sheet (SDS), EU

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