

**Safety data sheet  
according to UK REACH**

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 23.04.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** SONAX PowerFoam ENERGY**Article number:**

06318000

**UFI:** GFA5-G0UA-T00V-H7GK**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Detergents

Professional uses

**Uses advised against** There is currently no information available on this.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

**Further information obtainable from:**

Product safety

E-mail: [erp@sonax.de](mailto:erp@sonax.de)

Phone: + +49 (0) 8431 53 217

**United Kingdom:**

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: [info@aaoil.co.uk](mailto:info@aaoil.co.uk)**1.4 Emergency telephone number:****European Union:** +49 (0) 89 19240 (Poison Centre Munich)**United Kingdom:** 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS05

**Signal word** Danger**Hazard-determining components of labelling:**

Coco/Capryl Glucoside

Lauramine Oxide

**Hazard statements**

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

**vPvB:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

**Determination of endocrine-disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Aqueous tenside solution.

**Dangerous components:**

CAS: 147170-44-3 EC No 931-333-8 Reg.nr.: 01-2119489410-39-xxxx	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts Alternative CAS number: 61789-40-0 ☠ Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	4-<10%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36-xxxx	Alkyl polyglycoside C8-10 ☠ Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: C ≥ 10 %	3-<5%
CAS: 110615-47-9 EC number: 600-975-8 Reg.nr.: 01-2119489418-23-xxxx	Alkyl polyglycoside C10-16 ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 30 % Eye Dam. 1; H318: C ≥ 12 %	3-<5%
CAS: 1569-01-3 EINECS: 216-372-4 Reg.nr.: 01-2119474443-37-xxxx	1-propoxypropan-2-ol ☠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319	3-<5%
CAS: 308062-28-4 EC No 931-292-6 Reg.nr.: 01-2119490061-47-xxxx	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides Alternative CAS number: 70592-80-2 ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	1-<3%
CAS: 3811-73-2 EINECS: 223-296-5 Reg.nr.: 01-2119493385-28-xxxx	pyridine-2-thiol 1-oxide, sodium salt ☠ Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ STOT RE 1, H372; ☠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH070	<0.1%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

amphoteric surfactants, non-ionic surfactants	≥5 - <15%
phenoxyethanol, perfumes, sodium pyrithione	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information:** Remove soiled clothing

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Wash the areas of skin affected with water and a mild detergent.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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**After swallowing:***Rinse out mouth and then drink plenty of water.**Do not induce vomiting; call for medical help immediately.***4.2 Most important symptoms and effects, both acute and delayed** *Eye irritation / Eye damage***4.3 Indication of any immediate medical attention and special treatment needed***Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.***SECTION 5: Firefighting measures****5.1 Extinguishing media***Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.***5.2 Special hazards arising from the substance or mixture** *No further relevant information available.***5.3 Advice for firefighters****Protective equipment:***The normal measures for firefighting are to be taken.**Do not enter the hazardous area without a self-contained breathing apparatus.**See Section 8 for information on personal protection equipment.***Additional information***Collect contaminated fire fighting water separately. It must not enter the sewage system.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel***Ensure adequate ventilation**Avoid contact with the eyes and skin.**Wear protective clothing.***For emergency responders** *Wear protective equipment. Keep unprotected persons away.***6.2 Environmental precautions:***Do not allow to penetrate the ground/soil.**Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****7.1 Precautions for safe handling** *No special precautions are necessary if used correctly.***Information about fire - and explosion protection:** *No special measures required.***7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** *Prevent any seepage into the ground.***Information about storage in one common storage facility:***Store away from foodstuffs.**Observe local/state/federal regulations.***Further information about storage conditions:***Protect from frost.**Recommended storage temperature: 20 °C.***7.3 Specific end use(s)** *No further relevant information available.*

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**DNELs**

**CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts**

Oral	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
		12.5 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	44 mg/m <sup>3</sup> (worker) (longterm systematic effects)

**CAS: 68515-73-1 Alkyl polyglycoside C8-10**

Oral	DNEL	35.7 mg/kg (consumer) (longterm exposure - systemic effects)
Dermal	DNEL	357,000 mg/kg (consumer) (longterm exposure - systemic effects)
		595,000 mg/kg (worker) (longterm exposure - systemic effects)
Inhalative	DNEL	124 mg/m <sup>3</sup> (consumer) (longterm exposure - systemic effects)
		420 mg/m <sup>3</sup> (worker) (longterm exposure - systemic effects)

**CAS: 1569-01-3 1-propoxypropan-2-ol**

Oral	DNEL	11 mg/kg/Tag (consumer) (chronic systemic effect)
Dermal	DNEL	36 mg/bw/day (consumer) (chronic systemic effect)
		82.5 mg/bw/day (worker) (chronic systemic effect)
Inhalative	DNEL	263 mg/m <sup>3</sup> (worker) (chronic systemic effect)
		38 mg/m <sup>3</sup> (consumer) (chronic systemic effect)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

Oral	DNEL	0.44 mg/kg bw/day (consumer) (acute systematic effects)
Dermal	DNEL	5.5 mg/kg bw/day (consumer) (longterm systematic effects)
		11 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	3.8 mg/m <sup>3</sup> (consumer) (longterm systematic effects)
		15.5 mg/m <sup>3</sup> (worker) (longterm systematic effects)

**PNECs**

**CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts**

PNEC	3,000 mg/l (STP)
	0.0135 mg/l (water (fresh water))
	0.00135 mg/l (water (sea water))
PNEC	1 mg/kg (sediment (fresh water))
	0.1 mg/kg (sediment (sea water))
	0.8 mg/kg (soil)

**CAS: 68515-73-1 Alkyl polyglycoside C8-10**

PNEC	0.27 mg/l (sporadic release)
	560 mg/l (STP)
	0.176 mg/l (water (fresh water))
	0.0176 mg/l (water (sea water))
PNEC	111.11 mg/kg (oral (secondary poisoning))
	0.654 mg/kg (gro)
	1.516 mg/kg (sediment (fresh water))
	0.152 mg/kg (sediment (sea water))

**CAS: 1569-01-3 1-propoxypropan-2-ol**

PNEC	4 mg/l (sewage plant)
	0.1 mg/l (water (fresh water))
	0.01 mg/l (water (sea water))

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	PNEC	0.386 mg/kg dw (sediment (fresh water)) 0.039 mg/kg dw (sediment (sea water)) 0.018 mg/kg dw (soil)
<b>CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides</b>		
Oral	PNEC	11.1 mg/kg (food)
	PNEC	24 mg/l (sewage plant) 335 mg/l (water (intermittent release)) 0.0335 mg/l (water (fresh water)) 0.00335 mg/l (water (sea water))
	PNEC	5.24 mg/kg (sediment (fresh water)) 0.524 mg/kg (sediment (sea water)) 1.02 mg/kg (soil)

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

#### Individual protection measures, such as personal protective equipment

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

##### Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

**Hand protection** Not required in normal cases.

##### Eye/face protection

Safety glasses

[EN 166]

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Physical state

Fluid

##### Colour:

Light brown

##### Odour:

Fruit-like

##### Melting point/freezing point:

Undetermined.

##### Boiling point or initial boiling point and boiling range

100 - 120 °C

##### Flammability

Product is not flammable.

##### Lower and upper explosion limit

##### Lower:

Not determined.

##### Upper:

Not determined.

##### Flash point:

Not applicable.

##### Decomposition temperature:

Not determined.

##### pH at 20 °C

7.5 - 8.5

##### Viscosity:

##### Kinematic viscosity at 40 °C

<20.5 mm<sup>2</sup>/s

##### Solubility

##### water:

Fully miscible.

##### Partition coefficient n-octanol/water (log value)

Not determined.

##### Vapour pressure:

Not determined.

##### Density and/or relative density

##### Density at 20 °C:

1.06 - 1.08 g/cm<sup>3</sup>

##### Vapour density

Not determined.

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**9.2 Other information****Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Ignition temperature:**

Product is not selfigniting.

**Explosive properties:**

Product does not present an explosion hazard.

**Change in condition****Evaporation rate**

Not determined.

**Information with regard to physical hazard classes****Explosives** Void**Flammable gases** Void**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Void**Flammable solids** Void**Self-reactive substances and mixtures** Void**Pyrophoric liquids** Void**Pyrophoric solids** Void**Self-heating substances and mixtures** Void**Substances and mixtures, which emit flammable****gases in contact with water** Void**Oxidising liquids** Void**Oxidising solids** Void**Organic peroxides** Void**Corrosive to metals** Void**Desensitised explosives** Void**SECTION 10: Stability and reactivity****10.1 Reactivity** No dangerous reactions known.**10.2 Chemical stability** Stable under normal conditions.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** See Section 7 for information on safe handling.**10.5 Incompatible materials:** strong oxidizing agents**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts**

Oral LD50 &gt;5,000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt;2,000 mg/kg (rat) (OECD 402)

**CAS: 1569-01-3 1-propoxypropan-2-ol**

Oral LD50 2,490 mg/kg (rat)

Dermal LD50 3,775 mg/kg (rabbit)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

Oral LD50 1,064 mg/kg (rat) (OECD 401)

Dermal LD50 &gt;2,000 mg/kg (rat)

LC50 / 96 h 2.67 mg/l (Pimephales promelas)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Causes serious eye damage.

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**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### Additional toxicological information:

#### Repeated dose toxicity

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

Oral	NOAEL 90 d	2,000 mg/kg (rat) (OECD 451)
	NOAEL	2,000 mg/kg (rat) (OECD 451) 88 mg/kg (rabbit) (OECD 408) 25 mg/kg (Ratte)

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

#### Aquatic toxicity:

**CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts**

LC 50	>1-10 mg/l (Pimephales promelas) (OECD 203)
EC0	>100 mg/l (Pseudomonas putida) (OECD 209)
EC50	>1-10 mg/l (Daphnia magna) (OECD 202) >1-10 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC	≤1 mg/l (Oncorhynchus mykiss) (OECD210) ≤1 mg/l (Daphnia magna) (OECD 211)

**CAS: 1569-01-3 1-propoxypropan-2-ol**

LC50 / 96 h	>100 mg/l (Oncorhynchus mykiss)
LC50 / 48h	>100 mg/l (Daphnia magna)
LC 50	3,400 mg/l (Pimephales promelas)
EC50 / 16h	3,800 mg/l (bacteria)
EC50 / 96 h	1,466 mg/l (Pseudokirchneriella subcapitata)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

NOEC 302 d	0.42 mg/l (Pimephales promelas)
EC10 / 18h	24 mg/l (Pseudomonas putida)
EC50 / 48h	3.1 mg/l (Daphnia magna)
EC50 / 72h	0.143 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC / 21 d	0.7 mg/l (Daphnia magna) (OECD 211)
NOEC / 28d	0.067 mg/l (algae)

**CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt**

LC50 / 96h	0.00767 mg/l (Zebrafährbling)
EC 20 / 3h	0.48 mg/l (KS) (OECD 209)
EC50/3h	1.81 mg/l (KS) (OECD 209)

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EC50 / 48h	0.022 mg/l (daphnia)
EC50 / 72h	0.46 mg/l (Selenastrum capricornutum)
NOEC / 72 h	0.08 mg/l (Selenastrum capricornutum) (OECD 201)

### 12.2 Persistence and degradability

The surface-active substances contained in the product meet the requirement of the EU Detergent Regulation ( EC/648/2004 ) for ultimate biodegradability for surfactants in detergents.

#### CAS: 1569-01-3 1-propoxypropan-2-ol

Biodegradation 91.5 % (OECD 301 A)

#### CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Biodegradation 90 %

#### CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt

Biodegradation >70 % (activated sludge) (OECD 301 B)

### 12.3 Bioaccumulative potential

#### CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

log POW 2.7

#### CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt

log Kow <-1.09 ((n-Octanol/Wasser) OECD 107)

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

#### PBT:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

#### vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

### 12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

### 12.7 Other adverse effects

#### Additional ecological information:

#### General notes:

The product may not be released into the environment without control.

The product does not contain organically bounded halogens (AOX-free).

The product does not contain organic complexing agents.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Recommendation** Waste must be disposed of while observing the local, official regulations.

#### European waste catalogue

20 01 29\* detergents containing hazardous substances

HP4 Irritant - skin irritation and eye damage

HP14 Ecotoxic

#### Uncleaned packaging:

15 01 10\*: packaging containing residues of or contaminated by dangerous substances

#### Recommendation:

Packaging may be reused or recycled after cleaning.

15 01 02: plastic packaging

**Recommended cleansing agents:** Water

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA Void

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**14.2 UN proper shipping name**  
ADR/RID/ADN, IMDG, IATA      Void

**14.3 Transport hazard class(es)**  
ADR/RID/ADN, ADN, IMDG, IATA  
Class      Void

**14.4 Packing group**  
ADR/RID/ADN, IMDG, IATA      Void

**14.5 Environmental hazards:**  
Marine pollutant:      No

**14.6 Special precautions for user** Not applicable.

**UN "Model Regulation":**      Void

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**European Directives:**  
Directive 2010/75/EU (VOC) 4.22 %  
Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to  
REGULATION (EU) 2019/1148

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**National regulations:**

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH070 Toxic by eye contact.

**Classification according to Regulation (EC) No 1272/2008**

Serious eye damage/irritation  
Hazardous to the aquatic environment - long-term  
(chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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**Version number of previous version:** 1.00

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**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

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