

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 4.01 (replaces version 4.00)

Revision: 16.10.2023

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

06767050, 06768000, 06769000

UFI: T285-A0H7-8000-0P5S**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Car care product

Detergents

Professional uses

Uses advised against Consumer uses: Private households / general public / consumers**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

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**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**

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1 H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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:**

sodium hydroxide

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

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: Alkaline tenside solution

Dangerous components:

CAS: 69011-36-5 EC No 931-138-8	isotridecanol,ethoxylated (>5-20EO) ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	5-<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: 10 % ≤ C < 10 %	5-<10%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-xxxx	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	5-<10%
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27-xxxx	sodium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	3-<5%
CAS: 97862-59-4 EC No 931-296-8	Fatty acid amido alkyl betaine ⚠ Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	3-<5%
CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37-xxxx	sodium-p-cumene sulphonate Alternative CAS numbers: 28348-53-0, 32073-22-6 ⚠ Eye Irrit. 2, H319	1-<3%

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

non-ionic surfactants	≥5 - <15%
amphoteric surfactants	<5%
perfumes	

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

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SECTION 4: First aid measures**4.1 Description of first aid measures****General information:***Immediately remove any clothing soiled by the product.**Take affected persons out of danger area and lay down.***After inhalation:***Supply fresh air.**Seek immediate medical advice.**In case of unconsciousness place patient stably in side position for transportation.***After skin contact:***Immediately wash with water and soap and rinse thoroughly.**Seek immediate medical advice.***After eye contact:***Rinse opened eye for several minutes under running water.**Seek immediate medical advice.***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**Caustic effect on skin and mucous membranes.***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.**For safety reasons unsuitable extinguishing agents: Water with full jet***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.**Wear fully protective suit.**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** *Ensure adequate ventilation***For non-emergency personnel***Wear protective clothing.**The usual precautionary measures are to be adhered to when handling chemicals.**Avoid contact with the eyes and skin.***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:***Ensure adequate ventilation.**Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Use neutralising agent.**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.*

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

When diluting always pour product into water and not vice versa.

Information about fire - and explosion protection: The product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Provide alkali-resistant floor.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from metals.

Observe local/state/federal regulations.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Protect from frost.

Recommended storage temperature: 20 °C.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

WEL (Great Britain)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
IOELV (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
OEL (Ireland)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm IOELV

CAS: 1310-73-2 sodium hydroxide

WEL (Great Britain)	Short-term value: 2 mg/m ³
OEL (Ireland)	Short-term value: 2 mg/m ³

Regulatory information

WEL (Great Britain): EH40/2020

IOELV (EU): (EU) 2019/1831

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

DNELs

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)
	DNEL	595,000 mg/kg (worker) (longterm exposure - systemic effects)
Inhalative	DNEL	124 mg/m ³ (consumer) (longterm exposure - systemic effects)
	DNEL	420 mg/m ³ (worker) (longterm exposure - systemic effects)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	DNEL	5 mg/kg bw/day (consumer) (chronic systemic effect)
Dermal	DNEL	83 mg/bw/day (worker) (chronic systemic effect)
	DNEL	50 mg/kg bw/day (consumer) (chronic systemic effect)
Inhalative	DNEL	67.5 mg/m ³ (worker) (chronic systemic effect)
	DNEL	67.5 mg/m ³ (worker) (chronic locale effects)
	DNEL	40.5 mg/m ³ (consumer) (chronic systemic effect)
	DNEL	40.5 mg/m ³ (consumer) (chronic locale effects)

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CAS: 1310-73-2 sodium hydroxide		
Inhalative	DNEL	1 mg/m ³ (worker) (longterm local effects)
	DNEL	1 mg/m ³ (consumer) (longterm local effects)
CAS: 97862-59-4 Fatty acid amido alkyl betaine		
Oral	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	12.5 mg/kg (worker) (longterm systematic effects)
	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
Inhalative	DNEL	13.04 mg/m ³ (consumer) (longterm systematic effects)
		44 mg/m ³ (worker) (longterm systematic effects)
CAS: 15763-76-5 sodium-p-cumene sulphate		
Oral	DNEL	3.8 mg/kg bw/day (consumer) (longterm systematic effects)
Dermal	DNEL	3.8 mg/kg bw/day (consumer) (longterm systematic effects)
		7.6 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	13.2 mg/m ³ (consumer) (longterm systematic effects)
		53.6 mg/m ³ (worker) (longterm systematic effects)
PNECs		
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: 112-34-5 2-(2-butoxyethoxy)ethanol		
PNEC	200 mg/l (STP)	
	11 mg/l (water)	
	1.1 mg/l (water (fresh water))	
	0.11 mg/l (water (sea water))	
PNEC	4.4 mg/kg (sediment (fresh water))	
	0.44 mg/kg (sediment (sea water))	
	0.32 mg/kg (soil)	
	56 mg/kg (water)	
CAS: 97862-59-4 Fatty acid amido alkyl betaine		
PNEC	3,000 mg/l (sewage plant)	
	0.013 mg/l (water (fresh water))	
	0.001 mg/l (water (sea water))	
PNEC	11.1 mg/kg (sediment (fresh water))	
	1.11 mg/kg (sediment (sea water))	
	0.85 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:

If the occupational exposure limit is exceeded:

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The following breathing protection is recommended:

Filter P2

[DIN EN 14387]

Hand protection Protective gloves**Material of gloves**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

[EN 374]

Penetration time of glove material Value for the permeation: Level 6 (≥ 480 min)**Eye/face protection**

Tightly sealed goggles

[EN 166]

Body protection: Alkaline resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Light yellow

Odour:

Citrus

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range ≥ 100 °C**Flammability**

Product is not flammable.

Lower and upper explosion limit**Lower:**

Not applicable

Upper:

Not applicable

Flash point:

Not applicable.

Decomposition temperature:

Not determined.

pH at 20 °C

12.5 - 13.5

Viscosity:**Kinematic viscosity at 40 °C** < 20.5 mm²/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:**1.11-1.13 g/cm³**Vapour density**

Not determined.

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

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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	
May be corrosive to metals.	
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 Exothermic reaction with strong acids

10.4 Conditions to avoid See Section 7 for information on safe handling.

10.5 Incompatible materials:

Store away from metals.

acids

10.6 Hazardous decomposition products: Corrosive gases/vapours

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: 69011-36-5 isotridecanol,ethoxylated (>5-20EO)

Oral	LD50	>300-2,000 mg/kg (rat) (OECD 423)
	ATE	>300-2,000 mg/kg (rat)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	2,410 mg/kg (mouse) (ECHA)
Dermal	LD50	2,764 mg/kg (rabbit) (ECHA)

CAS: 97862-59-4 Fatty acid amido alkyl betaine

Oral	LD50	2,235 mg/kg (rat)
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CAS: 15763-76-5 sodium-p-cumene sulphonate

Oral	LD50	>7,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

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: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	NOAEL	250 mg/kg (rat) (ECHA)
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Inhalative	NOAEC	0.094 mg/m ³ (Ratte) (OECD 413)
CAS: 15763-76-5 sodium-p-cumene sulphonate		
Oral	NOAEL	>936 mg/kg (rat)
	NOAEL 90-92d	>440 mg/kg/d (OECD 411 Subchronic Dermal Toxicity: 90-day Study)
Values relevant for classification:		
CAS: 97862-59-4 Fatty acid amido alkyl betaine		
Oral	NOAEL	300 mg/kg/day (rat)
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 There are no ecotoxicological data available on this mixture.

Aquatic toxicity:	
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol	
LC50 / 96h	1,300 mg/l (Lepomis macrochirus) (OECD 203)
EC50 / 48h	>100 mg/l (Daphnia magna) (ECHA)
ErC50	1,101 mg/l (Pseudokirchneriella subcapitata) (ECHA)
CAS: 1310-73-2 sodium hydroxide	
LC50 / 96 h	196 mg/l (fish)
EC50 / 48h	40.4 mg/l (Invertebrates)
CAS: 97862-59-4 Fatty acid amido alkyl betaine	
LC50 / 96 h	1.11 mg/l (Calamus penna)
NOEC / 100d	0.135 mg/l (Oncorhynchus mykiss) (OECD 210)
EC 0 / 16h	3,000 mg/l (Pseudomonas putida)
EC50 / 48h	6.5 mg/l (Daphnia magna)
EC50 / 72h	1.5 mg/l (Desmodesmus subspicatus)
LOEC / 21 d	0.56 mg/l (Daphnia magna) (OECD 201)
NOEC / 21 d	0.32 mg/l (Daphnia magna) (OECD 211)
CAS: 15763-76-5 sodium-p-cumene sulphonate	
LC50 / 96h	>1,000 mg/l (fish) (EPA OPPTS EPA OTS 797)
EC50/3h	>1,000 mg/l (bacteria) (OECD 209)
EC50 / 48h	>1,000 mg/l (Daphnia magna) (EPA OPPTS EPA OTS 797)
	>100 mg/l (daphnia) (OECD 202)
EC50 / 96 h	>230 mg/l (algae) (EPA OPPTS EPA OTS 797)
NOEC 96h	31 mg/l (algae) (EPA OPPTS)

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: 97862-59-4 Fatty acid amido alkyl betaine	
Biodegradation	80-90 % (OECD 311)
Biodegradation	92 % (OECD 301 B Ready Biodegradability - CO2 Evolution)
CAS: 15763-76-5 sodium-p-cumene sulphonate	
Biodegradation	60-100 % (OECD 301 B Ready Biodegradability - CO2 Evolution)

12.3 Bioaccumulative potential No further relevant information available.

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

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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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

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

European waste catalogue

20 01 29*	detergents containing hazardous substances
HP8	Corrosive

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 UN1760

14.2 UN proper shipping name

ADR/RID/ADN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, N,N-BIS(CARBOXYMETHYL)-ALANINE, TRISODIUM SALT)

IMDG, IATA CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, N,N-BIS(CARBOXYMETHYL)-ALANINE, TRISODIUM SALT)

14.3 Transport hazard class(es)

ADR/RID/ADN



Class 8 (C9) Corrosive substances.
Label 8

IMDG, IATA



Class 8 Corrosive substances.
Label 8

14.4 Packing group

ADR/RID/ADN, IMDG, IATA III

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14.5 Environmental hazards:**Marine pollutant:** No**14.6 Special precautions for user** Warning: Corrosive substances.**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.**Transport/Additional information:****ADR/RID/ADN****Limited quantities (LQ)** 5L**Transport category** 3**Tunnel restriction code** E**UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, N,N-BIS(CARBOXYMETHYL)-ALANINE, TRISODIUM SALT), 8, III**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) not subject to

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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Corrosive to metals | Bridging principles

Skin corrosion/irritation | The classification of the mixture is generally based on the calculation method
Serious eye damage/irritation | using substance data according to Regulation (EC) No 1272/2008.**Date of previous version:** 15.07.2023**Version number of previous version:** 4.00**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)

DGR: Przepisy dotyczące towarów niebezpiecznych - Dangerous Goods Regulations by IATA

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentration

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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

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1: Skin corrosion/irritation – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

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

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

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

GB