

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

Printing date 15.12.2023

Version: 3.00 (replaces version 2.00)

Revision: 25.05.2022

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

#### 1.1 Product identifier

**Trade name:** SONAX Headlight Polish

**Article number:**

B04050000

(Polish for SONAX Headlight Restoration Kit [04059410])

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

**Application of the substance / the mixture**

Car care product

Polishing agent/ Burnishing compound

Consumer uses: Private households / general public / consumers

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**

The product is not classified, according to the GB CLP regulation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

#### 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** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Emulsion of solvents, abrasives and additives

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**Dangerous components:**

CAS: 72623-86-0 EINECS: 276-737-9 Reg.nr.: 01-2119474878-16-XXXX	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ⚠ Asp. Tox. 1, H304	5-<10%
EC No 934-956-3 Reg.nr.: 01-2119827000-58-xxxx	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics Alternative CAS number: 64742-46-7 ⚠ Asp. Tox. 1, H304	3-<5%
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure limit	3-<5%
EC No 934-954-2 Reg.nr.: 01-2119826592-36-xxxx	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics Alternative CAS number: 64742-46-7 ⚠ Asp. Tox. 1, H304	1-<3%
EC No 920-107-4 Reg.nr.: 01-2119453414-43-xxxx	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics Alternative CAS number: 64742-47-8 ⚠ Asp. Tox. 1, H304, EUH066	1-<3%

**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.

**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.

**After swallowing:** Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**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.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation**For non-emergency personnel**

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

**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:**

Pick up mechanically.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to section 13.

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**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:** Provide solvent resistant, sealed floor.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.

Protect from frost.

Recommended storage temperature: 20 °C.

**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: 56-81-5 glycerol**

WEL (Great Britain)

Long-term value: 10 mg/m<sup>3</sup>

OEL (Ireland)

Long-term value: 10 mg/m<sup>3</sup>**Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

GERMAN RCP-METHOD (EU)

Long-term value: 300 mg/m<sup>3</sup>  
2 (II) / AGW (German TRGS 900)**Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

GERMAN RCP-METHOD (EU)

Long-term value: 300 mg/m<sup>3</sup>  
2 (II) / AGW (German TRGS 900)**Regulatory information**

WEL (Great Britain): EH40/2020

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

**DNELs****CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Inhalative

DNEL

1.2 mg/m<sup>3</sup> (consumer) (local / longterm (repeated))5.4 mg/m<sup>3</sup> (worker) (local / longterm (repeated))**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.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

**Respiratory protection:**

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

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**Hand protection** Not required in normal cases.  
**Eye/face protection** Not required in normal cases

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	White
<b>Odour:</b>	Solvent-like
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	100 - 355 °C
<b>Flammability</b>	Product is not flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Flash point:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 40 °C</b>	>20.5 mm <sup>2</sup> /s
<b>Solubility</b>	
<b>water:</b>	Partly miscible.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.98-0.99 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.

### 9.2 Other information

<b>Appearance:</b>	
<b>Form:</b>	Pasty
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

### Information with regard to physical hazard classes

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

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### 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: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4d	>5,000 mg/l (rat)

**Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4h	>5.266 mg/m <sup>3</sup> (rat) (OECD 403)

**Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4h	>5.266 mg/m <sup>3</sup> (rat) (OECD 403)

**Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4h	>5.6 mg/m <sup>3</sup> (rat) (OECD 403)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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

**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**

Viscosity: > 20,5mm<sup>2</sup>/s (40°C)

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

**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.

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**Aquatic toxicity:**

**CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

NOEC / 2 d	≥10,000 mg/l (Daphnia magna) (OECD 202)
LC50 / 96h	>100 mg/l (fish)
EC50 / 48h	>10,000 mg/l (Daphnia magna) (OECD 202)
ErC 50 / 72h	>100 mg/l (algae)
NOEC 96h	≥100 mg/l (fish) (OECD 203)
NOEC / 21 d	≥10 mg/l (Daphnia magna) (OECD 211)
NOEC / 72 h	≥100 mg/l (algae)

**Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

LC50 / 4 d	>1,028 mg/l (Scophtalamus maximus) (OECD 203)
LC50 / 48h	>3,193 mg/l (Acartia tonsa)
NOEC / 21 d	>1,000 mg/l (Daphnia magna)
NOEC / 28d	>1,000 mg/l (Oncorhynchus mykiss)
LC50 / 3 d	>10,000 mg/l (Skeletonema costatum)

**Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

LC50 / 2 d	>3,193 mg/l (Acartia tonsa)
LC50 / 4 d	>1,028 mg/l (Scophtalamus maximus) (OECD 203)
NOEC / 21 d	>1,000 mg/l (Daphnia magna)
NOEC / 28d	>1,000 mg/l (Oncorhynchus mykiss)
EC50 / 3 d	>10,000 mg/l (Skeletonema costatum)

**Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LC50 / 2 d	>1,000 mg/l (Daphnia magna) (OECD 202)
LC50 / 4 d	>1,000 mg/l (Oncorhynchus mykiss) (OECD 203)
NOEC / 21 d	>1,000 mg/l (Daphnia magna)
NOEC / 28d	>1,000 mg/l (Oncorhynchus mykiss)
EC50 / 3 d	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

**12.2 Persistence and degradability**

**CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Biodegradation >60 % (28d)

**Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

Biodegradation 74 %

**Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics**

Biodegradation 74 %

**Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biodegradation 67.6 %

**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

**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.

The product does not contain substances with endocrine disrupting properties.

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**12.7 Other adverse effects****Additional ecological information:****General notes:** The product may not be released into the environment without control.**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Not classified as hazardous waste according to Annex III to Directive 2008/98/EC.

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

- 1) Disposal / product
- 2) Disposal / contaminated packaging

12 01 99	wastes not otherwise specified
15 01 02	plastic packaging

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.2 UN proper shipping name</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b> ADR/RID/ADN, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>UN "Model Regulation":</b>	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) 6.40 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to REGULATION (EU) 2019/1148

<b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
None of the ingredients is listed.
<b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
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.

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**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**

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Date of previous version: 22.04.2021

Version number of previous version: 2.00

**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)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Asp. Tox. 1: Aspiration hazard – Category 1

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



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

B04059410

(Sealant for SONAX Headlight Restoration Kit [04059410])

**UFI:** 2XT0-1078-300P-MGJR**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Car care product

Coating

Consumer uses: Private households / general public / consumers

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

Phone +49 (0)84 31/53-2 17

E-Mail: ERP@sonax.de

**1.4 Emergency telephone number:** Emergency Phone Munich Tel.: +49 (0)89 19240**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

**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**

GHS02 GHS05

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

Tetrabutyltitanate

Polymer of tetra-n-butyl titanate and water

**Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

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P280 Wear protective gloves/eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Labelling of packages where the contents do not exceed 125 ml**

Marking container <125 ml deviates. Reduced labeling according article 29 and annex I, no. 1.5 GB CLP-regulation is used.

**2.3 Other hazards**

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable. Inhalation of aerosol spray may damage health.

**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:** Surface sealing made from additives and modified silicones in solvents

**Dangerous components:**

CAS: 13475-82-6 EINECS: 297-629-8	2,2,4,6,6-pentamethylheptane Alternative CAS number: 93685-81-5 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	25-<50%
CAS: 5593-70-4 EINECS: 227-006-8 Reg.nr.: 01-2119967423-33-xxxx	Tetrabutyltitanate ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; STOT SE 3, H336	5-<10%
CAS: 162303-51-7	Polymer of tetra-n-butyl titanate and water Alternative CAS number: 9022-96-2 ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; STOT SE 3, H336	5-<10%

**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:**

Take affected persons out into the fresh air.

Remove soiled clothing

In any cases of doubt or if symptoms are present, seek medical advice.

**After inhalation:**

Supply fresh air.

In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.

**After skin contact:**

Wash the areas of skin affected with water and a mild detergent.

If symptoms persist consult doctor.

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

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**After swallowing:***Do not induce vomiting; call for medical help immediately.**Rinse out mouth and then drink plenty of water.***4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Drowsiness

Nausea

Cramp

Eye irritation / Eye damage

Skin irritation

**4.3 Indication of any immediate medical attention and special treatment needed***If swallowed or in case of vomiting, danger of entering the lungs.**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:**

Foam

Carbon dioxide

Fire-extinguishing powder

Water spray

**For safety reasons unsuitable extinguishing agents:** *Water with full jet***5.2 Special hazards arising from the substance or mixture***In case of fire, the following can be released:*

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Silicon oxides

Formaldehyde

*Develops readily flammable gases/fumes.***5.3 Advice for firefighters****Protective equipment:***Do not inhale explosion gases or combustion gases.**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***Cool endangered receptacles with water spray.**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** *Keep away from ignition sources.***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).**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.

Do not breathe vapour.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:**

**Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

Observe local/state/federal regulations.

**Further information about storage conditions:**

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

Recommended storage temperature: 20 °C.

**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:**

With exposure to moisture, product will release methanol.

#### CAS: 67-56-1 methanol

WEL (Great Britain)	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk
IOELV (EU)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin

#### DNELs

##### CAS: 5593-70-4 Tetrabutyltitanate

Oral	DNEL	3.75 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	37.5 mg/kg (consumer) (longterm systematic effects)
Inhalative	DNEL	152 mg/m <sup>3</sup> (consumer) (longterm systematic effects)
	DNEL	127 mg/m <sup>3</sup> (worker) (longterm systematic effects)

##### CAS: 162303-51-7 Polymer of tetra-n-butyl titanate and water

Inhalative	DNEL	127 mg/m <sup>3</sup> (worker) (longterm systematic effects)
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#### PNECs

##### CAS: 5593-70-4 Tetrabutyltitanate

PNEC	65 mg/l (sewage plant)
	2.25 mg/l (water) (zeitweise Freisetzung)
	0.08 mg/l (water (fresh water))
	0.008 mg/l (water (sea water))
PNEC	0.069 mg/kg (sediment (fresh water))
	0.007 mg/kg (sediment (sea water))
	0.017 mg/kg (soil)

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**CAS: 162303-51-7 Polymer of tetra-n-butyl titanate and water**

PNEC	65 mg/l (sewage plant)
	0.08 mg/l (water (fresh water))
	0.008 mg/l (water (sea water))
PNEC	0.017 mg/kg (gro)
	0.069 mg/kg (sediment (fresh water))
	0.007 mg/kg (sediment (sea water))

**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:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

**Respiratory protection:**

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

Use suitable respiratory protective device in case of insufficient ventilation.

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

[DIN EN 14387]

**Hand protection** Protective gloves**Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.4$  mm

[EN 374]

**Penetration time of glove material**

Value for the permeation: Level 6 ( $\geq 480$ min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**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:**

Colourless

**Odour:**

Alcohol-like

**Melting point/freezing point:**

Undetermined.

**Boiling point or initial boiling point and boiling range**

> 35 °C

**Flammability**

Combustible liquid.

**Lower and upper explosion limit****Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

40 °C (DIN EN ISO 13736)

**Decomposition temperature:**

Not determined.

**pH**

Not applicable.

**Viscosity:****Kinematic viscosity at 40 °C**

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

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**Solubility**

<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.90 - 0.92 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.

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

Not determined.

**Explosive properties:**

In use, may form flammable/explosive vapour-air mixture.

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

Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	
Flammable liquid and vapour.	
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	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** Fumes can combine with air to form an explosive mixture.**10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

**10.5 Incompatible materials:** strong oxidizing agents**10.6 Hazardous decomposition products:**

With exposure to moisture, product will release methanol.

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C through oxidation.

**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.

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**LD/LC50 values relevant for classification:****CAS: 13475-82-6 2,2,4,6,6-pentamethylheptane**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 8h	>5 mg/l (Ratte) (OECD 403)

**CAS: 5593-70-4 Tetrabutyltitanate**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD 50	5,300 mg/kg (rabbit)
Inhalative	LD50	20,100 mg/l (rat)

**Skin corrosion/irritation** Causes skin irritation.**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**Viscosity: > 20,5mm<sup>2</sup>/s (40°C)

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

**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: 13475-82-6 2,2,4,6,6-pentamethylheptane**

LC50 / 96h	>1,000 mg/l (Oncorhynchus mykiss) (OECD 203)
EC50 / 48h	>1,000 mg/l (Daphnia magna) (OECD 202)
IC50 / 72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

**CAS: 5593-70-4 Tetrabutyltitanate**

LC50 / 96h	1,825 mg/l (fish) (acute)
EC10	650 mg/l (bacteria)
EC50 / 48h	1,300 mg/l (dp) (acute)
EC50 / 96 h	225 mg/l (algae) (acute)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential****CAS: 13475-82-6 2,2,4,6,6-pentamethylheptane**

log Kow | 6.96

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

### 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**

- 1) Disposal / product
- 2) Disposal / contaminated packaging

20 01 13*	solvents
15 01 10*	packaging containing residues of or contaminated by hazardous substances

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

**14.1 UN number or ID number  
ADR/RID/ADN, IMDG, IATA**

UN1993

**14.2 UN proper shipping name  
ADR/RID/ADN**

1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C4, 1,3-BUTADIENE-FREE, TETRABUTYL TITANATE)  
FLAMMABLE LIQUID, N.O.S. (TETRABUTYL TITANATE)

**IMDG, IATA**

**14.3 Transport hazard class(es)**

**ADR/RID/ADN**



**Class  
Label**

3 (F1) Flammable liquids.  
3

**IMDG, IATA**



**Class  
Label**

3 Flammable liquids.  
3

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

III

**14.5 Environmental hazards:**

**Marine pollutant:**

No

**14.6 Special precautions for user**

Warning: Flammable liquids.

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**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** D/E

**UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S.  
 (HYDROCARBONS, C4, 1,3-BUTADIENE-FREE, TETRABUTYL TITANATE), 3, 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)** 37.50 %  
**Catégorie SEVESO (DIRECTIVE 2012/18/EU) P5c** FLAMMABLE LIQUIDS  
**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.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H413 May cause long lasting harmful effects to aquatic life.

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

Flammable liquids	On basis of test data
Skin corrosion/irritation 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.

**Date of previous version:** 22.04.2021

**Version number of previous version:** 2.00

**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)  
 NOEL = No Observed Effect Level  
 NOEC = No Observed Effect Concentration  
 LC = lethal 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**Flam. Liq. 3: Flammable liquids – Category 3**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4***\* Data compared to the previous version altered.**

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