Safety data sheet
according to UK REACH

Printing date 19.09.2024 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
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
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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Emulsion of solvents, abrasives and additives

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Safety data sheet
according to UK REACH

Printing date 19.09.2024 Version: 3.00 (replaces version 2.00) Revision: 25.05.2022

Trade name: SONAX Headlight Polish

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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%
EINECS: 265-149-8 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.

(Contd. on page 3)

(Contd. of page 2)

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/m³*
OEL (Ireland)	*Long-term value: 10 mg/m³*
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	
GERMAN RCP-METHOD (EU)	*Long-term value: 300 mg/m³* *2 (II) / AGW (German TRGS 900)*
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
GERMAN RCP-METHOD (EU)	*Long-term value: 300 mg/m³* *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/m³ (consumer) (local / longterm (repeated))* *5.4 mg/m³ (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.

(Contd. on page 4)

(Contd. of page 3)

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Physical state	Fluid
Colour:	White
Odour:	Solvent-like
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	100 - 355 °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	Not applicable.
Viscosity:	
Kinematic viscosity at 40 °C	>20.5 mm²/s
Solubility	
water:	Partly miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.98-0.99 g/cm³
Vapour density	Not determined.

9.2 Other information	
Appearance:	
Form:	Pasty
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

(Contd. on page 5)

(Contd. of page 4)

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/m³ (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/m³ (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/m³ (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: > 20,5mm²/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.*

(Contd. on page 6)

(Contd. of page 5)

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 conatins less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix conatins 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.

(Contd. on page 7)

(Contd. of page 6)

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

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

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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

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.

(Contd. on page 8)

(Contd. of page 7)

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 = letal 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.**

Safety data sheet
according to UK REACH

Printing date 19.09.2024 Version: 3.00 (replaces version 2.00) Revision: 11.10.2022

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

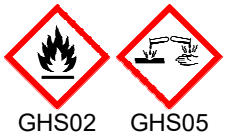
1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240

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.

(Contd. on page 2)

(Contd. of page 1)

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.

(Contd. on page 3)

(Contd. of page 2)

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 (CO2)
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.

(Contd. on page 4)

(Contd. of page 3)

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/m³, 250 ppm* *Long-term value: 266 mg/m³, 200 ppm* *Sk*
IOELV (EU)	*Long-term value: 260 mg/m³, 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/m³ (consumer) (longterm systematic effects)*
	DNEL	*127 mg/m³ (worker) (longterm systematic effects)*
CAS: 162303-51-7 Polymer of tetra-n-butyl titanate and water		
Inhalative	*DNEL*	*127 mg/m³ (worker) (longterm systematic effects)*

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)

(Contd. on page 5)

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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: ≥ 0.4 mm
[EN 374]
Penetration time of glove material
Value for the permeation: Level 6 (≥480min)
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 mm²/s*

(Contd. on page 6)

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Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.90 - 0.92 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:	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	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
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 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.

(Contd. on page 7)

(Contd. of page 6)

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: > 20,5mm²/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 conatins less than 0.1% of any substances classified as PBT

(Contd. on page 8)

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vPvB:
According to information provided in the supply chain, the mix conatins 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

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

14.3 Transport hazard class(es)

ADR/RID/ADN

Class 3 (F1) Flammable liquids.
Label 3

IMDG, IATA

Class 3 Flammable liquids.
Label 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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(Contd. of page 8)

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.
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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 = letal Concentration
EC50 = half maximal effective concentration
log POW = Octanol / water partition coefficient
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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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.***