

**Safety data sheet
according to UK REACH**

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX Oil Enhancer**Article number:** 05161000**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Oil-and Fuel Additives

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**

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

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

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

Hazard pictograms Void**Signal word** Void**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

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.

GB

(Contd. on page 2)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Additives in mineral oil

Dangerous components:

| | | |
|--|---|---------|
| CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-xxxx | White mineral oil, petroleum ⚠ Asp. Tox. 1, H304 | 25-<50% |
| | Mineral oil ⚠ Asp. Tox. 1, H304 | 10-<50% |
| CAS: 84605-29-8 EINECS: 283-392-8 Reg.nr.: 01-2119493626-26-xxxx | Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 6.25 % Eye Dam. 1; H318: C ≥ 12.5 % Eye Irrit. 2; H319: 10 % ≤ C < 12.5 % | 3-<10% |
| CAS: 398141-87-2 EC number: 800-172-4 Reg.nr.: 01-2119969520-35-xxxx | thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich ⚠ Aquatic Chronic 2, H411 | 1-<10% |

Additional information:

The mineral oil contained may be described by one or more of the following: EC No. 265-157-1, Registration No. 01-2119484627-25, Distillates (petroleum), hydrotreated heavy paraffinic; EC No. 265-169-7, Registration No. 01-2119471299-27, Distillates (petroleum), solvent-dewaxed heavy paraffinic; EC No. 265-158-7, Registration No. 01-2119487077-29, Distillates (petroleum), hydrotreated light paraffinic; EC No. 265-159-2, Registration No. 01-2119480132-48, Distillates (petroleum), solvent-dewaxed light paraffinic.
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.

If symptoms persist consult doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

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:

Carbon dioxide

Fire-extinguishing powder

Foam

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 dioxide (CO₂)

Carbon monoxide (CO)

(Contd. on page 3)

Trade name: SONAX Oil Enhancer

(Contd. of page 2)

Sulphur oxides (SOx)

Hydrogen sulphides

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

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

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from foodstuffs.

Observe local/state/federal regulations.

Further information about storage conditions:

Keep container tightly sealed.

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:

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

DNELs

CAS: 8042-47-5 White mineral oil, petroleum

| | | |
|------------|------|---|
| Oral | DNEL | 40 mg/kg (consumer) (long-term exposure - systemic effects) |
| Dermal | DNEL | 92 mg/kg bw/day (consumer) (long-term exposure - systemic effects) |
| | | 220 mg/kg bw/day (worker) (long-term exposure - systemic effects) |
| Inhalative | DNEL | 35 mg/m ³ (consumer) (long-term exposure - systemic effects) |
| | DNEL | 160 mg/m ³ (worker) (long-term exposure - systemic effects) |

(Contd. on page 4)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 3)

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

8.2 Exposure controls

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.

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.

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

Physical state

Fluid

Colour:

Brown

Odour:

Solvent-like

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

Undetermined.

Flammability

Not applicable.

Combustible liquid.

Lower and upper explosion limit

Lower:

Not applicable

Upper:

Not applicable

Flash point:

>120 °C

Decomposition temperature:

Not determined.

pH

Not determined.

Viscosity:

Kinematic viscosity at 40 °C

>20.5 mm²/s

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:

0.92-0.93 g/cm³ (DIN 51757)

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

(Contd. on page 5)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 4)

| | |
|--|------|
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions known.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid

Protect from heat.

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:

Sulphur oxides (SO_x)

Mercaptans

Hydrogen sulphide

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: 8042-47-5 White mineral oil, petroleum

| | | |
|--------|------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |

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.

GB

(Contd. on page 6)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 5)

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: 8042-47-5 White mineral oil, petroleum

| | |
|------------|---|
| NOELR | >100 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201) |
| LC50 / 96h | >1,000 mg/l (<i>Leuciscus idus</i>) (OECD 203) |
| EC50 / 48h | >100 mg/l (<i>daphnia</i>) |
| NOEC/NOEL | ≥100 mg/l (fish) (96h) |
| | ≥100 mg/l (algae) (72h) |
| | ≥100 mg/l (<i>daphnia</i>) (48h) |

Mineral oil

| | |
|-------------|--|
| EC50 / 21 d | >10 mg/l (<i>Daphnia magna</i>) |
| LC50 / 4 d | >100 mg/l (<i>Pimephales promelas</i>) |
| NOEC / 21 d | >10 mg/l (<i>Daphnia magna</i>) |
| EC50 / 2 d | >10,000 mg/l (<i>Daphnia magna</i>) |
| EC50 / 3 d | >100 mg/l (<i>scenedesmus quadricauda</i>) |

CAS: 84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

| | |
|--------------|--|
| NOEC / 3 d | 10 mg/l (<i>Pseudokirchneriella subcapitata</i>) |
| NOEC / 2 d | 10 mg/l (<i>Daphnia magna</i>) |
| EC50 / 21 d | >0.8 mg/l (<i>Daphnia magna</i>) |
| LC50 / 4 d | 4.5 mg/l (<i>Oncorhynchus mykiss</i>) |
| | 46 mg/l (<i>Phoxinus phoxinus</i>) |
| NOEC / 21 d | 0.4 mg/l (<i>Daphnia magna</i>) |
| NOEC / 4 d | 1.8 mg/l (<i>Oncorhynchus mykiss</i>) |
| EC50 / 2 d | 23 mg/l (<i>Daphnia magna</i>) |
| EC50 / 3 d | 21 mg/l (<i>Pseudokirchneriella subcapitata</i>) |
| EC50 / 0,1 d | >10,000 mg/l (sludge) |

CAS: 398141-87-2 thiophene, tetrahydro-, 1,1-dioxide,3-(C9-11-isoalkyloxy) derivs., C10-rich

| | |
|--------------|---|
| NOEC / 3 d | 0.313 mg/l (<i>Pseudokirchneriella subcapitata</i>) |
| NOEC / 2 d | 0.63 mg/l (<i>Daphnia magna</i>) |
| LC50 / 4 d | 2.4 mg/l (<i>Oncorhynchus mykiss</i>) |
| | 3.3 mg/l (<i>Phoxinus phoxinus</i>) |
| NOEC / 4 d | 1 mg/l (<i>Oncorhynchus mykiss</i>) |
| EC50 / 2 d | 4.6 mg/l (<i>Daphnia magna</i>) |
| EC50 / 3 d | 63 mg/l (<i>Pseudokirchneriella subcapitata</i>) |
| EC50 / 0,1 d | 10,000 mg/l (sludge) |

12.2 Persistence and degradability

CAS: 8042-47-5 White mineral oil, petroleum

| | |
|----------------|-------------------------|
| Biodegradation | >60 % (28d (OECD 301B)) |
|----------------|-------------------------|

12.3 Bioaccumulative potential

CAS: 84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

| | |
|---------|-----------------|
| log Kow | 0.56 (measured) |
|---------|-----------------|

CAS: 398141-87-2 thiophene, tetrahydro-, 1,1-dioxide,3-(C9-11-isoalkyloxy) derivs., C10-rich

| | |
|---------|------------------|
| BCF | 27.54 (measured) |
| log Kow | 4.1 (measured) |

12.4 Mobility in soil

No further relevant information available.

(Contd. on page 7)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 6)

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.

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

| | |
|-----------|---|
| 13 02 05* | mineral-based non-chlorinated engine, gear and lubricating oils |
| 15 01 02 | plastic packaging |
| HP14 | Ecotoxic |

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

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

(Contd. on page 8)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 14.07.2022

Trade name: SONAX Oil Enhancer

(Contd. of page 7)

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

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

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:** 5.00**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

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

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

Asp. Tox. 1: Aspiration hazard – Category 1

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

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

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