# Safety data sheet
## according to UK REACH

Printing date 20.01.2025 Version: 10.00 (replaces version 9.00) Revision: 05.10.2023

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

### 1.1 Product identifier

**Trade name: SONAX SX90 PLUS**

**Article number:**
04741000, 04742000, 04743000, 04744000, 04737410, 04738410
**UFI:** D960-405A-Y00C-4A3Y

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

**Application of the substance / the mixture**
Penetrating oil
Anticorrosion additive
Lubricant
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**
Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

### 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

**Signal word** Danger
**Hazard statements**
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
**Precautionary statements**
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

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P260 Do not breathe spray.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
**Additional information:**
Buildup of explosive mixtures possible without sufficient ventilation.
**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/this mixture contains components that exhibit or are suspected of exhibiting endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

| | | |
|---|---|---|
| CAS: 128-37-0 | 2,6-di-tert-butyl-p-cresol | List II |

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Description:** Formulation consisting of pressurised gas and mineral oil with additives in petroleum distillate

| **Dangerous components:** | | |
|---|---|---|
| EC No 926-141-6<br>Reg.nr.: 01-2119456620-43-xxxx | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>Alternative CAS number: 64742-47-8<br>Asp. Tox. 1, H304, EUH066 | 25-<50% |
| CAS: 8042-47-5<br>EINECS: 232-455-8<br>Reg.nr.: 01-2119487078-27-xxxx | White mineral oil, petroleum<br>Asp. Tox. 1, H304 | 25-<50% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx | butane<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 5-<10% |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 01-2119486944-21-xxxx | propane<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 5-<10% |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27-xxxx | isobutane<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 1-<3% |
| CAS: 1474044-79-5<br>EC No 939-717-7<br>Reg.nr.: 01-2119980985-16-xxxx | calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)<br>Alternative CAS number: 57855-77-3<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 1-<3% |
| CAS: 110-25-8<br>EC number: 701-177-3<br>Reg.nr.: 01-2119488991-20-xxxx | (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine<br>Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Acute Tox. 4, H332; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 | <1% |
| CAS: 128-37-0<br>EINECS: 204-881-4<br>Reg.nr.: 01-2119565113-46-xxxx | 2,6-di-tert-butyl-p-cresol<br>Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1) | <0.25% |

| **Regulation (EC) No 648/2004 on detergents / Labelling for contents** | |
|---|---|
| aliphatic hydrocarbons | ≥30% |

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



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## SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information:**
Take affected persons out into the fresh air.
Remove soiled clothing
**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. If symptoms persist, consult a doctor.
**After swallowing:** Do not induce vomiting; call for medical help immediately.
**4.2 Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Headache
Drowsiness
Nausea

**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:**
Foam
Carbon dioxide
Fire-extinguishing powder
Water haze
**For safety reasons unsuitable extinguishing agents:** Water with full jet
**5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
**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**
Do not inhale gases / fumes / aerosols.
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:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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**
Ensure good ventilation/exhaustion at the workplace.
Buildup of explosive mixtures possible without sufficient ventilation.
When using product on electrical parts disconnect them from power supply first. Before re-assembly, let dry for 2 minutes.
**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
Highly volatile, flammable constituents are released during processing.
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.
Observe official regulations on storing packagings with pressurised containers.
**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 heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
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:** | |
| **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | |
| RCP-TWA (EU) | Long-term value: 1200 mg/m³, 165 ppm<br>Vapour / Total Hydrocarbons |
| **CAS: 106-97-8 butane** | |
| WEL (Great Britain) | Short-term value: 1810 mg/m³, 750 ppm<br>Long-term value: 1450 mg/m³, 600 ppm<br>Carc (if more than 0.1% of buta-1.3-diene) |
| OEL (Ireland) | Short-term value: 1000 ppm |
| **CAS: 74-98-6 propane** | |
| OEL (Ireland) | Asphx |
| **CAS: 75-28-5 isobutane** | |
| OEL (Ireland) | Short-term value: 1000 ppm |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | |
| WEL (Great Britain) | Long-term value: 10 mg/m³ |
| OEL (Ireland) | Long-term value: 2 mg/m³ |

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**Regulatory information**
WEL (Great Britain): EH40/2020
OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

| **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/m³ (consumer) (long-term exposure - systemic effects) |
| | DNEL | 160 mg/m³ (worker) (long-term exposure - systemic effects) |
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | | |
| Dermal | DNEL | 10 mg/kg (worker) (longterm systematic effects) |
| Inhalative | DNEL | 5 mg/m³ (worker) (longterm systematic effects) |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | | |
| Oral | DNEL | 92 mg/kg (consumer) (acute systematic effects) |
| | DNEL | 5 mg/kg (consumer) (longterm systematic effects) |
| Dermal | DNEL | 50 mg/kg (consumer) (acute systematic effects) |
| | | 10 mg/kg (worker) (longterm systematic effects) |
| | DNEL | 5 mg/kg (consumer) (longterm systematic effects) |
| | | 100 mg/kg (worker) (acute systematic effects) |
| Inhalative | DNEL | 9 mg/m³ (consumer) (acute locale effects) |
| | | 18 mg/m³ (worker) (acute locale effects) |
| | DNEL | 0.005 mg/m³ (consumer) (longterm local effects) |
| | | 0.01 mg/m³ (worker) (longterm local effects) |
| | DNEL | 0.1 mg/m³ (consumer) (longterm systematic effects) |
| | | 0.2 mg/m³ (worker) (longterm systematic effects) |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | | |
| Oral | DNEL | 0.25 mg/kg bw/day (consumer long-term systemic effects) |
| Dermal | DNEL | 0.25 mg/kg (consumer long-term systemic effects) |
| | | 0.5 mg/kg (worker long-term systemic effects) |
| Inhalative | DNEL | 0.435 mg/m³ (consumer long-term systemic effects) |
| | | 1.76 mg/m³ (worker long-term systemic effects) |

| **PNECs** | | |
|---|---|---|
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | | |
| Oral | PNEC | 22.2 mg/kg food (human) |
| | PNEC | 10 mg/l (sewage sludge) |
| | | 0.004 mg/l (water (fresh water)) |
| | | 0.0004 mg/l (water (sea water)) |
| | PNEC | 69 mg/kg (sediment (fresh water)) |
| | | 6.9 mg/kg (sediment (sea water)) |
| | | 13.9 mg/kg (soil) |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | | |
| | PNEC | 0.0043 mg/l (sporadic release) |
| | | 0.00043 mg/l (water (fresh water)) |
| | | 0.000043 mg/l (water (sea water)) |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | | |
| | PNEC | 0.017 mg/l (sewage plant) |
| | | 0.0002 mg/l (freshwater (Süßwasser)) |
| | | 0.00002 mg/l (sediment (sea water)) |
| | PNEC | 0.054 mg/kg (gro) |
| | | 0.458 mg/kg (sediment (fresh water)) |
| | | 0.046 mg/kg (sediment (sea water)) |

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**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
If the occupational exposure limit is exceeded:
The following breathing protection is recommended:
Respiratory filter for organic gases and vapours (Type A)
Identification colour: Brown
[DIN EN 14387]
**Hand protection** Protective gloves
**Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
**Penetration time of glove material** Value for the permeation: Level 6 (≥480min)
**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** | Not applicable, as aerosol. |
| **Flammability** | Extremely flammable aerosol. |
| **Lower and upper explosion limit** | |
| **Lower:** | 0.6 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics) |
| **Upper:** | 7 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics) |
| **Flash point:** | Not applicable, as aerosol. |
| **Decomposition temperature:** | Not determined. |
| **pH** | Not applicable. |
| **Viscosity:** | |
| **Kinematic viscosity at 40 °C** | <20.5 mm²/s (Active ingredient data ) |
| **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:** | 0.83-0.85 g/cm³ (Active ingredient data ) |
| **Vapour density** | Not determined. |

**9.2 Other information**
**Appearance:**
**Form:** Aerosol

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| | |
|---|---|
| **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** | |
| Extremely flammable aerosol. | |
| Pressurised container: May burst if heated. | |
| **Oxidising gases** | Void |
| **Gases under pressure** | Void |
| **Flammable liquids** | Void |
| **Flammable solids** | Void |
| **Self-reactive substances and mixtures** | Void |
| **Pyrophoric liquids** | Void |
| **Pyrophoric solids** | Void |
| **Self-heating substances and mixtures** | Void |
| **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| **Oxidising liquids** | Void |
| **Oxidising solids** | Void |
| **Organic peroxides** | Void |
| **Corrosive to metals** | Void |
| **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.
**10.2 Chemical stability** Stable under normal conditions.
**10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
**10.4 Conditions to avoid**
An increase in pressure may lead to bursting.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
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:** 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:** | | |
|---|---|---|
| **Hydrocarbons, C11-C14, 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 | LC50/8h | >5,000 mg/m³ (rat) (OECD 403) |
| **CAS: 8042-47-5 White mineral oil, petroleum** | | |
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | | |
| Oral | LD50 | >2,500 mg/kg (rat) |
| Dermal | LD50 | >10,000 mg/kg (rabbit) |

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| | | |
|---|---|---|
| Inhalative | LD50 | >20 mg/l (rat) |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | | |
| Oral | LD50 | 5,000 mg/kg (rat) (OECD 401) |
| | | >5,000 mg/kg (rat) (OECD 420) |
| Inhalative | LC50 / 4h | 1.37 mg/m³ (rat) |
| | | 1.8 mg/m³ (rat) (OECD 403) |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402) |

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

**Additional toxicological information:**

| | | |
|---|---|---|
| **Repeated dose toxicity** | | |
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | | |
| Oral | NOAEL 90 d | 100 mg/kg (rat) (OECD 408, 90d, target organ: liver) |

**11.2 Information on other hazards**
**Endocrine disrupting properties**
The product contains substances suspected of causing endocrine disruptions with health effects.

| | | |
|---|---|---|
| CAS: 128-37-0 | 2,6-di-tert-butyl-p-cresol | List II |

## SECTION 12: Ecological information

**12.1 Toxicity** There are no ecotoxicological data available on this mixture.

| | | |
|---|---|---|
| **Aquatic toxicity:** | | |
| **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | | |
| | LLO 96 h | 1,000 mg/l (Oncorhynchus mykiss) |
| | ELO 48 h | 1,000 mg/l (Daphnia magna) |
| | ELO 72 h | 1,000 mg/l (Pseudokirchneriella subcapitata) |
| **CAS: 8042-47-5 White mineral oil, petroleum** | | |
| | NOELR | >100 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| | LC50 / 96h | >1,000 mg/l (Leuciscus idus) (OECD 203) |
| | EC50 / 48h | >100 mg/l (daphnia) |
| | NOEC/NOEL | ≥100 mg/l (fish) (96h) |
| | | ≥100 mg/l (algae) (72h) |
| | | ≥100 mg/l (daphnia) (48h) |
| **CAS: 106-97-8 butane** | | |
| | LC50 / 96 h | 27.98 mg/l (fish) |
| | EC50 / 4 d | 7.71 mg/l (algae) |
| **CAS: 74-98-6 propane** | | |
| | LC50 / 96 h | 27.98 mg/l (fish) |
| | EC50 / 96 h | 7.71 mg/l (algae) |

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| | | |
|---|---|---|
| **CAS: 75-28-5 isobutane** | | |
| | LC50 / 96 h | 27.98 mg/l (fish) |
| | EC50 / 4 d | 7.71 mg/l (algae) |
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | | |
| Inhalative | LC50/1 | >20 mg/L (rat) |
| | LC50 / 96 h | >0.28 mg/l (fish) |
| | NOEL 21 d | 2.2-10 mg/l (daphnia) |
| | EC50 | >0.27 mg/l (daphnia) |
| | EC50 / 48h | >0.27 mg/l (daphnia) |
| | IC50 / 48h | >0.27 mg/l (daphnia) |
| | NOEC / 72 h | >0.27 mg/l (algae) |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | | |
| | LC50 / 96 h | 6.8 mg/l (fish) |
| | EC20 / 0.5 h | 50 mg/l (activated sludge) |
| | EC50 / 48h | 0.43 mg/l (Daphnia magna) |
| | EC50 / 72h | 6.3 mg/l (Scenedesmus subspicatus) |
| | | 0.91 mg/l (Desmodesmus subspicatus) (OECD 201) |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | | |
| | LC50 / 96 h | 0.758 mg/l (algae) |
| | LC50 / 96h | 0.199 mg/l (fish) |
| | EC50 / 48h | 0.48 mg/l (Daphnia magna) |
| | NOEC / 21 d | 0.053 mg/l (Oryzias latipes) |
| | | 0.069 mg/l (Daphnia magna) |

**12.2 Persistence and degradability**

| | |
|---|---|
| **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | |
| Biodegradation | 69 % (28d) |
| **CAS: 8042-47-5 White mineral oil, petroleum** | |
| Biodegradation | >60 % (28d (OECD 301B)) |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | |
| CSB | 2,400 mg/g |
| Biodegradation | 85 % (OECD 301 B Ready Biodegradability -. CO2 Evolution) |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)** | |
| BCF | 3.16 |
| log POW | >6.6 |
| **CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine** | |
| log POW | 3.5-4.2 |

**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.
**12.7 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

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

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***European waste catalogue***
*Disposal / product + Disposal / contaminated packaging*

| | |
|---|---|
| *15 01 10** | *packaging containing residues of or contaminated by dangerous 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*** *UN1950*

***14.2 UN proper shipping name***
***ADR/RID/ADN*** *1950 AEROSOLS*
***IMDG*** *AEROSOLS*
***IATA*** *AEROSOLS, flammable*

***14.3 Transport hazard class(es)***

***ADR/RID/ADN***

***Class*** *2 5F Gases.*
***Label*** *2.1*

***IMDG, IATA***

***Class*** *2.1 Gases.*
***Label*** *2.1*

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

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

***14.6 Special precautions for user*** *see Sections 6-8*
*Warning: Gases.*
***Stowage Code*** *SW1 Protected from sources of heat.*
*SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.*
***Segregation Code*** *SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.*
*For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.*
*For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.*

***Transport/Additional information:***

***ADR/RID/ADN***
***Limited quantities (LQ)*** *1L*
***Transport category*** *2*
***Tunnel restriction code*** *D*

***UN "Model Regulation":*** *UN1950, AEROSOLS, 2.1*



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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)** 50.52 %
**Catégorie SEVESO (DIRECTIVE 2012/18/EU)** P3a FLAMMABLE AEROSOLS
**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.

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
**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**
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

| **Classification according to Regulation (EC) No 1272/2008** | |
|---|---|
| Aerosols, Section 2.3.1 | On basis of test data |

**Date of previous version:** 21.07.2022
**Version number of previous version:** 9.00
**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)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IOELV = indicative occupational exposure limit values
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
: Aerosols – Category 3
Press. Gas (Comp.): Gases under pressure – Compressed gas
Acute Tox. 4: Acute toxicity – Category 4

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*Skin Irrit. 2: Skin corrosion/irritation – Category 2*
*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*
*Asp. Tox. 1: Aspiration hazard – Category 1*
*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*
**** Data compared to the previous version altered.***