

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

#### 1.1 Product identifier

**Trade name:** SONAX PROFILINE PREPARE

**Article number:**

02370410, 02373000

**UFI:** HJR0-U0W4-H00T-2X7X

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

**Application of the substance / the mixture**

Car care product

Detergents

Consumer uses: Private households / general public / consumers

Professional uses

**Uses advised against** There is currently no information available on this.

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

#### Further information obtainable from:

Product safety

E-mail: [erp@sonax.de](mailto:erp@sonax.de)

Phone: + 49 (0) 8431 53 217

#### United Kingdom:

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: [info@aaoil.co.uk](mailto:info@aaoil.co.uk)

#### 1.4 Emergency telephone number:

**European Union:** +49 (0) 89 19240 (Poison Centre Munich)

**United Kingdom:** 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Aerosol 1 H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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**



GHS02 GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

C9-10 Alkane/Cycloalkane

propan-2-ol

**Hazard statements**

H222 Extremely flammable aerosol.

(Contd. on page 2)

GB

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 1)

*H229 Pressurised container: May burst if heated.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.**H412 Harmful to aquatic life with long lasting effects.***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.**P211 Do not spray on an open flame or other ignition source.**P251 Do not pierce or burn, even after use.**P261 Avoid breathing spray.**P271 Use only outdoors or in a well-ventilated area.**P273 Avoid release to the environment.**P280 Wear protective gloves/eye protection.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P312 Call a POISON CENTER/doctor if you feel unwell.**P405 Store locked up.**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:***EUH066 Repeated exposure may cause skin dryness or cracking.**Buildup of explosive mixtures possible without sufficient ventilation.***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****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:** Preparation of propellant and solvents**Dangerous components:**

EC No 927-241-2 Reg.nr.: 01-2119471843-32-xxxx	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Alternative CAS number: 64742-48-9 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	50-<75%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	15-<20%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<15%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-<10%

(Contd. on page 3)

GB

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 2)

EC No 918-167-1 Reg.nr.: 01-2119472146-39-xxxx	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics Alternative CAS numbers: 90622-57-4, 64742-48-9 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	3-<5%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	3-<5%

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

aliphatic hydrocarbons	≥30%
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**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 of danger area and lay down.

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. Then 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

Headache

Dizziness

Nausea

Drowsiness

Eye irritation

Reddening, drying and crack formation of the skin

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

#### 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 (CO<sub>2</sub>)

#### 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.

(Contd. on page 4)

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

(Contd. of page 3)

### 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.

Do not inhale gases / fumes / aerosols.

Wear protective clothing.

**For emergency responders** Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

**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.

### 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.

**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.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from heat and direct sunlight.

Recommended storage temperature: 20 °C.

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

GB

(Contd. on page 5)

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

Trade name: SONAX PROFILINE PREPARE

(Contd. of page 4)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 67-63-0 propan-2-ol**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
OEL (Ireland)	Short-term value: 400 ppm Long-term value: 200 ppm Sk

**CAS: 106-97-8 butane**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm 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
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**CAS: 75-28-5 isobutane**

OEL (Ireland)	Short-term value: 1000 ppm
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**Regulatory information**

WEL (Great Britain): EH40/2020

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

**DNELs**

**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Oral	DNEL	125 mg/kg bw/day (consumer) (ChronicExposure, SystemicEffects)
Dermal	DNEL	125 mg/kg bw/day (consumer) (ChronicExposure, SystemicEffects) 208 mg/kg bw/day (worker) (ChronicExposure, SystemicEffects)
Inhalative	DNEL	185 mg/m <sup>3</sup> (consumer) (ChronicExposure, SystemicEffects) 871 mg/m <sup>3</sup> (worker) (ChronicExposure, SystemicEffects)

**CAS: 67-63-0 propan-2-ol**

Oral	DNEL	26 mg/kg (consumer) (chronic effects (1d))
Dermal	DNEL	319 mg/kg (consumer) (chronic effects (1d)) 888 mg/kg (worker) (chronic effects (1d))
Inhalative	DNEL	89 mg/m <sup>3</sup> (consumer) (chronic effects) 500 mg/m <sup>3</sup> (worker) (chronic effects)

**PNECs**

**CAS: 67-63-0 propan-2-ol**

PNEC	140.9 mg/l (sporadic release) 2,251 mg/l (STP) 140.9 mg/l (water (fresh water)) 140.9 mg/l (water (sea water))
PNEC	28 mg/kg (gro) 552 mg/kg (sediment)

**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.

(Contd. on page 6)

GB

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 5)

Keep away from foodstuffs, beverages and feed.

**Respiratory protection:**

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:  $\geq 0.4$  mm

[EN 374]

**Penetration time of glove material** Value for the permeation: Level 6 ( $\geq 480$ min)

**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:**

Solvent-like

**Melting point/freezing point:**

Undetermined.

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

82-205 °C

**Flammability**

Extremely flammable aerosol.

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

0.6 Vol % (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)  
(Active ingredient data )

**Upper:**

13 Vol % (CAS: 67-63-0 propan-2-ol)  
(Active ingredient data )

**Flash point:**

9.5 °C (DIN 51755)  
(Active ingredient data )

**Decomposition temperature:**

Not determined.

**pH**

Not applicable.

Not determined.

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

<20.5 mm<sup>2</sup>/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:**

0.75-0.76 g/cm<sup>3</sup>  
(Active ingredient data )

**Vapour density**

Not determined.

#### 9.2 Other information

**Appearance:**
**Form:**

Aerosol

**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.

(Contd. on page 7)

GB



## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 6)

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	>85% (percent by mass) flammable components, combustion energy $\geq 30$ kJ/g Extremely flammable aerosol. Pressurised container: May burst if heated.
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### 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, C9-C10, 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	>4,951 mg/m <sup>3</sup> (rat) (OECD 403)

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit)
Inhalative	LC50 / 6 h	>25 mg/l (rat) (OECD 403)

**Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics**

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

(Contd. on page 8)

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 7)

**Skin corrosion/irritation**

Long-term exposure causes slight irritation of the skin.  
Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/irritation**

May cause slight, short-term eye complaints.  
Causes serious eye irritation.

**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** May cause drowsiness or dizziness.

**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:**
**Values relevant for classification:**
**CAS: 67-63-0 propan-2-ol**

Oral	NOAEL	400 mg/kg/day (rat)
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**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.

## 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:**
**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics**

LL50 / 96h	>10-<30 mg/l (Oncorhynchus mykiss)
EL50 / 48h	>22-<46 mg/l (Daphnia magna)
EL50 / 72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR 72 h	<1 mg/l (Pseudokirchneriella subcapitata)

**CAS: 67-63-0 propan-2-ol**

LC50 / 96h	9,640 mg/l (Pimephales promelas)
LC50 / 24h	9,714 mg/l (daphnia)
EC50	>100 mg/l (bacteria)
EC50 / 72h	>100 mg/l (algae)
LOEC	1,000 mg/l (algae)

**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)

**Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics**

LLO 96 h	1,000 mg/l (Oncorhynchus mykiss)
NOELR 72 h	>1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR 21d	≥1 mg/l (Daphnia magna)
NOEC / 28d	0.209 mg/l (Oncorhynchus mykiss)

(Contd. on page 9)



## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

Trade name: SONAX PROFILINE PREPARE

(Contd. of page 8)

ELO 48 h	>1,000 mg/l (Daphnia magna)
ELO 72 h	>1,000 mg/l (Pseudokirchneriella subcapitata)
<b>CAS: 75-28-5 isobutane</b>	
LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)
<b>12.2 Persistence and degradability</b>	
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	
Biodegradation	89 % (28d)
<b>CAS: 67-63-0 propan-2-ol</b>	
Biodegradation	53 %

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**
**PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

**vPvB:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

**12.6 Endocrine disrupting properties**

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

The product does not contain substances with endocrine disrupting properties.

**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**

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.

(Contd. on page 10)

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

Trade name: SONAX PROFILINE PREPARE

(Contd. of page 9)

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.

Hazard identification number (Kemler code): -

Transport/Additional information:

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

UN "Model Regulation": UN1950, AEROSOLS, 2.1

### 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) 100.00 %

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 2 (Self-assessment): 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.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

(Contd. on page 11)

## Safety data sheet according to UK REACH

Printing date 05.05.2025

Version: 9.00 (replaces version 8.00)

Revision: 16.11.2022

**Trade name: SONAX PROFILINE PREPARE**

(Contd. of page 10)

H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.  
EUH066 Repeated exposure may cause skin dryness or cracking.

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

Aerosols, Section 2.3.1

Calculation method

Serious eye damage/irritation  
Specific target organ toxicity (single exposure)  
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.

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### Abbreviations and acronyms:

vPvB: very persistent and very bioaccumulative

PBT: persistent, bioaccumulative, toxic

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)

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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

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

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

\* Data compared to the previous version altered.