

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

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

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

1.1 Product identifier

Trade name: SONAX PROFILINE CeramicCoating Evo (SONAX PROFILINE Prepare EVO)

Article number:

02379410 (B02370410)

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

Cleaning material/ Detergent

Professional uses

Consumer uses: Private households / general public / consumers

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.

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 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(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, 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%

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

		(Contd. of page 2)
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%
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%
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

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. 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

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 (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.

(Contd. on page 4)

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

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 3)

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

Keep away from ignition sources.

Ensure adequate ventilation

Do not inhale gases / fumes / aerosols.

For non-emergency personnel

Avoid contact with the eyes and skin.

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 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:

Prevent any seepage into the ground.

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:

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

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.

GB

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(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 ³ , 500 ppm Long-term value: 999 mg/m ³ , 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 ³ , 750 ppm Long-term value: 1450 mg/m ³ , 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): 2020 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 ³ (consumer) (ChronicExposure, SystemicEffects)
		871 mg/m ³ (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 ³ (consumer) (chronic effects)
		500 mg/m ³ (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.

Keep away from foodstuffs, beverages and feed.

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 5)

Respiratory protection:

If the occupational exposure limit is exceeded:

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

Recommended thickness of the material: ≥ 0.4 mm

[EN 374]

Penetration time of glove material Value for the permeation: Level 6 (≥ 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 °C (CAS: 67-63-0 propan-2-ol)

Flammability

Extremely flammable aerosol.

Lower and upper explosion limit**Lower:**

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

Upper:

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

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 at 20 °C:

2,100 hPa (CAS: 106-97-8 butane)

Density and/or relative density**Density at 20 °C:**0.75-0.76 g/cm³
(Active ingredient data)**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.

Information with regard to physical hazard classes**Explosives**

Void

Flammable gases

Void

Aerosols>85% (percent by mass) flammable components,
combustion energy >30 kJ/g
Extremely flammable aerosol.

Pressurised container: May burst if heated.

Oxidising gases

Void

Gases under pressure

Void

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 6)

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, 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 ³ (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 ³ (rat) (OECD 403)

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.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 7)

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)

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:

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)
ELO 48 h	>1,000 mg/l (Daphnia magna)
ELO 72 h	>1,000 mg/l (Pseudokirchneriella subcapitata)

CAS: 75-28-5 isobutane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)

12.2 Persistence and degradability

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

Biodegradation 89 % (28d)

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

Biodegradation 53 %

12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 8)

12.4 Mobility in soil No further relevant information available.**12.5 Results of PBT and vPvB assessment** Not applicable.**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.

12.7 Other adverse effects**Additional ecological information:****General notes:** The product may not be released into the environment without control.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

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

Disposal / product + Disposal / contaminated packaging

15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
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

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

(Contd. on page 10)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 9)

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user

see Sections 6-8
Warning: Gases.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:
ADR/RID/ADN
Limited quantities (LQ)

1L

Transport category

2

Tunnel restriction code

D

UN "Model Regulation":

UN 1950 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.

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.

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

On basis of test data

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.

Date of previous version: 22.04.2021

Version number of previous version: 1.01

Abbreviations and acronyms:

vPvB: very persistent and very bioaccumulative

PBT: persistent, bioaccumulative, toxic

(Contd. on page 11)

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

Printing date 31.05.2023

Version: 2.00 (replaces version 1.01)

Revision: 15.09.2021

(Contd. of page 10)

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

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.**

GB

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

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX PROFILINE CeramicCoating Evo (SONAX PROFILINE Basecoat EVO)**Article number:**

02379410 (B02379410), 02379411-150

UFI: 8SN3-T0AC-E00X-9QPR**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Car care product

Sealing

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.

P261 Avoid breathing spray.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 1)

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.

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:** Formulation consisting of pressurised gas, alcohol and additives.**Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	25-<50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-<10%
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%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<3%
CAS: 112-53-8 EINECS: 203-982-0 Reg.nr.: 01-2119485976-15-xxxx	Lauryl alcohol ⚠ Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319	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:**

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.**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**

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.

GB

(Contd. on page 3)

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

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 2)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Carbon dioxide

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

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

Keep away from ignition sources.

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 enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

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.

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.

Fumes can combine with air to form an explosive mixture.

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 3)

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.

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:

Protect from heat and direct sunlight.

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

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: 64-17-5 ethanol**WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

OEL (Ireland) Short-term value: 1000 ppm

CAS: 106-97-8 butaneWEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppmLong-term value: 1450 mg/m³, 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

CAS: 75-28-5 isobutane

OEL (Ireland) Short-term value: 1000 ppm

Regulatory information

WEL (Great Britain): EH40/2020

OEL (Ireland): 2020 CoP for the Safety, Health and Welfare at Work

DNELs**CAS: 64-17-5 ethanol**

Oral	DNEL	87 mg/kg (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	206 mg/kg bw/day (consumer) (long-term exposure - systemic effects)
		343 mg/kg bw/day (worker) (long-term exposure - systemic effects)
Inhalative	DNEL	950 mg/m ³ (consumer) (acute short-term exposure - local effects)
		1,900 mg/m ³ (worker) (acute short-term exposure - local effects)
	DNEL	114 mg/m ³ (consumer) (long-term exposure - systemic effects)
		950 mg/m ³ (worker) (long-term exposure - systemic effects)

CAS: 112-53-8 Lauryl alcohol

Oral	DNEL	44.5 mg/kg bw/day (consumer) (longterm systematic effects)
Dermal	DNEL	44.5 mg/kg bw/day (consumer) (longterm systematic effects)
	DNEL	89 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	77 mg/m ³ (consumer) (longterm systematic effects)
		313 mg/m ³ (worker) (longterm systematic effects)
	DNEL	155 mg/m ³ (worker) (longterm local effects)

PNECs**CAS: 64-17-5 ethanol**

PNEC	2.75 mg/l (sporadic release)
	580 mg/l (STP)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 4)

PNEC	0.96 mg/l (water (fresh water))
	0.79 mg/l (water (sea water))
	3.6 mg/kg (sediment (fresh water))
	2.9 mg/kg (sediment (sea water))
	0.63 mg/kg (soil)
CAS: 112-53-8 Lauryl alcohol	
PNEC	0.001 mg/l (water (fresh water))
PNEC	0.666 mg/kg (sediment (fresh water))
	0.067 mg/kg (sediment (sea water))
	0.132 mg/kg (soil)

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:

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

[DIN EN 14387]

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:

Colourless

Odour:

Odourless

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

78 °C (CAS: 64-17-5 ethanol)

Flammability

Extremely flammable aerosol.

Lower and upper explosion limit

Lower:

3.5 Vol % (CAS: 64-17-5 ethanol)

Upper:

15 Vol % (CAS: 64-17-5 ethanol)

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:

Partly miscible.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure at 20 °C:

59 hPa (CAS: 64-17-5 ethanol)

Density and/or relative density

Density at 20 °C:

0.83-0.85 g/cm³

Relative density

Not determined.

9.2 Other information

No further relevant information available.

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 5)

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 applicable.

Information with regard to physical hazard classes
Explosives Void

Flammable gases Void

Aerosols >85% (percent by mass) flammable components, combustion energy >30 kJ/g
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:
CAS: 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 / 4h	>20 mg/l (mouse)

CAS: 112-53-8 Lauryl alcohol

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 6)

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

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

CAS: 64-17-5 ethanol

Oral	NOAEL	1,760 mg/kg (rat) (OECD 408, 90d, target organ: liver)
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Values relevant for classification:

CAS: 112-53-8 Lauryl alcohol

Oral	NOAEL	2,000 mg/kg/day (rat) (OECD 422)
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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.

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 64-17-5 ethanol

LC50 / 48h	8,140 mg/l (Leuciscus idus)
EC50 / 48h	>1,000 mg/l (Daphnia magna)
EC50 / 72h	275 mg/l (Chlorella vulgaris)

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)

CAS: 75-28-5 isobutane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)

CAS: 112-53-8 Lauryl alcohol

Inhalative	LC50/1	>71 mg/L (rat)
	LC50 / 96 h	>1-10 mg/l (Pimephales promelas)
	EC0 30 min	>10,000 mg/l (Pseudomonas putida)
	EC50 / 48h	>0.1-1 mg/l (Daphnia magna) (OECD 202)
	ErC 50 / 72h	>0.1-1 mg/l (Desmodesmus subspicatus) (OECD 201)
	NOEC / 21 d	>0.01-0.1 mg/l (Daphnia magna) (OECD 211)
	NOEC / 72 h	0.085 mg/l (Desmodesmus subspicatus) (OECD 201)

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 7)

12.2 Persistence and degradability

CAS: 112-53-8 Lauryl alcohol

Biodegradation >60 % (OECD 301 D)

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 No further relevant information available.

Additional ecological information:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue

Disposal / product + Disposal / contaminated packaging

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

HP3 Flammable

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

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 8)

14.4 Packing group ADR/RID/ADN, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D
UN "Model Regulation":	UN 1950 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) 57.30 %

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.

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.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Aerosols, Section 2.3.1 | On basis of test data

Date of previous version: 20.09.2021

Version number of previous version: 2.00

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 2.01 (replaces version 2.00)

Revision: 25.11.2021

(Contd. of page 9)

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
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 * **Data compared to the previous version altered.**

GB

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

Printing date 31.05.2023

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

1.1 Product identifier

Trade name: SONAX PROFILINE CeramicCoating Evo (SONAX PROFILINE Glosscoat EVO)

Article number:

02379410 (B02230410); 02230410-150

UFI: 4G85-U0Y6-S00G-9D33

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

Application of the substance / the mixture

Car care product

Sealing

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

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

GHS08

Signal word Danger

Hazard-determining components of labelling:

C11-14 Alkane

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P101

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

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 1)

- P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
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

Inhalation of aerosol spray may damage health.

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.

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: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	15-<20%
EC No 926-141-6 Reg.nr.: 01-2119456620-43-xxxx	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Alternative CAS number: 64742-47-8 ⚠ Asp. Tox. 1, H304, EUH066	10-<15%
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	1-<3%
CAS: 108-88-3 EINECS: 203-625-9	toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<1%
CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-xxxx	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370; STOT SE 2, H371 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	<0.25%

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

GB

(Contd. on page 3)

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

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 2)

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.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***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:***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***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.**Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes.**Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.**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***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.*

GB

(Contd. on page 4)

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

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep ignition sources away - Do not smoke.

For non-emergency personnel

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

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Do not breathe vapour.

Open and handle receptacle with care.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Highly volatile, flammable constituents are released during processing.

Buildup of explosive mixtures possible without sufficient ventilation.

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.

Protect from humidity and water.

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/m ³ , 165 ppm
	Vapour / Total Hydrocarbons

CAS: 64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 4)

OEL (Ireland)	Short-term value: 1000 ppm
CAS: 108-88-3 toluene	
WEL (Great Britain)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
IOELV (EU)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Skin
OEL (Ireland)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Sk, IOELV
CAS: 67-56-1 methanol	
WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
IOELV (EU)	Long-term value: 260 mg/m ³ , 200 ppm Skin
OEL (Ireland)	Long-term value: 260 mg/m ³ , 200 ppm Sk, IOELV

Regulatory information

WEL (Great Britain): EH40/2020

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

IOELV (EU): (EU) 2019/1831

DNELs
CAS: 64-17-5 ethanol

Oral	DNEL	87 mg/kg (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	206 mg/kg bw/day (consumer) (long-term exposure - systemic effects) 343 mg/kg bw/day (worker) (long-term exposure - systemic effects)
Inhalative	DNEL	950 mg/m ³ (consumer) (acute short-term exposure - local effects) 1,900 mg/m ³ (worker) (acute short-term exposure - local effects)
	DNEL	114 mg/m ³ (consumer) (long-term exposure - systemic effects) 950 mg/m ³ (worker) (long-term exposure - systemic effects)

CAS: 5593-70-4 Tetraethyltitanate

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

PNECs
CAS: 64-17-5 ethanol

PNEC	2.75 mg/l (sporadic release) 580 mg/l (STP) 0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water))
PNEC	3.6 mg/kg (sediment (fresh water)) 2.9 mg/kg (sediment (sea water)) 0.63 mg/kg (soil)

CAS: 5593-70-4 Tetraethyltitanate

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 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 5)

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.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

Respiratory protection:

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

Recommended thickness of the material: ≥ 0.4 mm

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

[EN 374]

Penetration time of glove material

Value for the permeation: Level Nitril: 3 (60 - 120min) / Butyl: 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:

Light yellow

Odour:

Solvent-like

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

78 °C (CAS: 64-17-5 ethanol)

Flammability

Highly flammable liquid and vapour.

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:

19 °C (DIN 51755)

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 at 20 °C:

1.1 hPa (CAS: 68037-85-4 alkylsilicone resin with alkoxy groups)

Density and/or relative density

Density at 20 °C:

0.97-0.98 g/cm³

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 6)

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	Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2): no self-sustained combustion
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.

Protect from heat and direct sunlight.

Protect from humidity and water.

See Section 7 for information on safe handling.

10.5 Incompatible materials:

strong oxidizing agents

strong acids

caustic solutions

Water

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 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 7)

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/m ³ (rat) (OECD 403)

CAS: 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 / 4h	>20 mg/l (mouse)

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)

CAS: 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
	LDLo	12,124 mg/kg (rabbit)
Inhalative	LC50/4d	5,320 mg/l (mouse)

CAS: 67-56-1 methanol

Oral	LD0	143 mg/kg (human)
	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
	LDLo	393 mg/kg (monkey)
Inhalative	LC50/4d	83.8 mg/l

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

Serious eye damage/irritation 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 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 May be fatal if swallowed and enters airways.

Additional toxicological information:

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

Repeated dose toxicity**CAS: 64-17-5 ethanol**

Oral	NOAEL	1,760 mg/kg (rat) (OECD 408, 90d, target organ: liver)
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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.

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.

(Contd. on page 9)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 8)

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: 64-17-5 ethanol

LC50 / 48h	8,140 mg/l (Leuciscus idus)
EC50 / 48h	>1,000 mg/l (Daphnia magna)
EC50 / 72h	275 mg/l (Chlorella vulgaris)

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)

CAS: 67-56-1 methanol

LC50 / 96h	15,400 mg/l (Lepomis macrochirus) (OECD-Prüfrichtlinie 203)
EC50 / 16h	6,600 mg/l (Pseudomonas putida)
EC50 / 48h	>1,000 mg/l (Daphnia magna) (OECD-Prüfrichtlinie 202)

12.2 Persistence and degradability**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biodegradation	69 % (28d)
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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.

12.7 Other adverse effects**Additional ecological information:****General notes:** The product may not be released into the environment without control.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

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

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

20 01 13*	solvents
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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

GB
(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 9)

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
IMDG, IATA

 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL)
 FLAMMABLE LIQUID, N.O.S. (ETHANOL)

14.3 Transport hazard class(es)
ADR/RID/ADN

Class
Label

 3 (F1) Flammable liquids.
 3

IMDG, IATA

Class
Label

 3 Flammable liquids.
 3

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

II

14.5 Environmental hazards:
Marine pollutant:

No

14.6 Special precautions for user

Warning: Flammable liquids.

14.7 Maritime transport in bulk according to IMO
instruments

Not applicable.

Transport/Additional information:

ADR/RID/ADN
Limited quantities (LQ)

1L

Transport category

2

Tunnel restriction code

D/E

UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL), 3, II

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) 30.62 %

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.

(Contd. on page 11)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version: 4.01 (replaces version 4.00)

Revision: 27.04.2023

(Contd. of page 10)

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

Relevant phrases

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 H370 Causes damage to organs.
 H371 May cause damage to organs.
 H373 May cause damage to organs through prolonged or repeated exposure.
 EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	On basis of test data
Serious eye damage/irritation Aspiration 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: 29.03.2023

Version number of previous version: 4.00

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)

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. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

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

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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