

11.10.2016

### Kit Components

Product code	Description
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<b>Z405841</b>	<b>SONAX PROFILIEN Headlight Restoration</b>
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Components:

Z27600017	SONAX PROFILINE Headlight Polish
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Z27610177-01	SONAX PROFILINE Headlight Protection
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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.10.2016

Version: 1

Revision: 05.08.2015

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

#### 1.1 Product identifier

**Trade name:** SONAX PROFILINE HeadlightPolish

**Article number:** 276141

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

##### Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category** PC31 Polishes and wax blends

**Application of the substance / the mixture** Car care product

#### 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

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

The product is not classified according to the CLP regulation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Precautionary statements** P102 Keep out of reach of children.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Emulsion of solvents, abrasives and additives

##### Dangerous components:

EC No 920-114-2 Reg.nr.: 01-2119459347-30-xxxx	Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics ⚠ Asp. Tox. 1, H304	15 - <20%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-Methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	3 - <5%

##### Additional information:

Any entry in the EC-column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

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:** No special measures required.

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**After inhalation:** Supply fresh air.

**After skin contact:**

Generally the product does not irritate the skin.

Wash the areas of skin affected with water and a mild detergent.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

### 5.3 Advice for firefighters

**Protective equipment:** The normal measures for firefighting are to be taken.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Not required.

### 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

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

### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 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** No special precautions are necessary if used correctly.

**Information about fire - and explosion protection:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:**

**Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.

Protect from frost.

Recommended storage temperature: 20 °C.

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

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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

**CAS: 107-98-2 1-Methoxy-2-propanol**

WEL (Great Britain)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Sk
IOELV (EU)	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin

#### DNELs

**CAS: 107-98-2 1-Methoxy-2-propanol**

Oral	DNEL	3.3 mg/kg (consumer) (long-term / systemic effects)
Dermal	DNEL	18.1 mg/kg (consumer) (long-term / systemic effects) 50.6 mg/kg (worker) (long-term / systemic effects)
Inhalative	DNEL	43.9 mg/m <sup>3</sup> (consumer) (long-term / systemic effects) 553.5 mg/m <sup>3</sup> (worker) (short-term / local effects) 369 mg/m <sup>3</sup> (worker) (long-term / systemic effects)

#### PNECs

**CAS: 107-98-2 1-Methoxy-2-propanol**

PNEC	100 mg/l (STP) 2.47 mg/kg (gro) 41.6 mg/kg (sediment (fresh water)) 4.17 mg/kg (sediment (sea water)) 100 mg/l (water (intermittent release)) 10 mg/l (water (fresh water)) 1 mg/l (water (sea water))
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**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

##### Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

##### 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.

##### Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

**Protection of hands:** Not required in normal cases

**Eye protection:** Not required in normal cases

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

<b>Form:</b>	Pasty
<b>Colour:</b>	White
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

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<b>pH-value:</b>	Not applicable.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 - 330 °C
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	0.98 - 0.99 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Partly miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Flow time</b>	Not applicable.
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 40 °C:</b>	>20.5 mm <sup>2</sup> /s
<b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.

**10.2 Chemical stability** Stable under normal conditions.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** See Section 7 for information on safe handling.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects** There are no toxicological findings on this mixture.

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

#### LD/LC50 values relevant for classification:

#### Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics

Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	>5266 mg/l (rat) (Aerosol (OECD 403))

#### CAS: 107-98-2 1-Methoxy-2-propanol

Oral	LD50	4016 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC0 / 6h	>7000 ppm (rat)

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**Primary irritant effect:****Skin corrosion/irritation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**Serious eye damage/irritation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**Respiratory or skin sensitisation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard**Viscosity: > 20,5mm<sup>2</sup>/s (40 °C)

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

### SECTION 12: Ecological information

**12.1 Toxicity** There are no ecotoxicological data available on this mixture.**Aquatic toxicity:****Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics**

ELO 48 h	1000 mg/l (Daphnia magna)
ErLO 72h	1000 mg/l (Pseudokirchneriella subcapitata)
LL0 96h	87556 mg/l (Oncorhynchus mykiss)
NOELR 21d	5 mg/l (Daphnia magna)
NOELR 72 h	1000 mg/l (Pseudokirchneriella subcapitata)

**CAS: 107-98-2 1-Methoxy-2-propanol**

EC50	>1000 mg/l (Pseudokirchneriella subcapitata) (7d)
EC50/3h	>1000 mg/l (activated sludge) (OECD 209)
LC 50 / 96 h	>6800 mg/l (Leuciscus idus) (DIN38412)
LC50 / 48h	23300 mg/l (Daphnia magna)

**12.2 Persistence and degradability****Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics**

Biodegradation | 17.7 % (28d)

**CAS: 107-98-2 1-Methoxy-2-propanol**

Biodegradation | 90 - 100 % (OECD 301E)

**12.3 Bioaccumulative potential****CAS: 107-98-2 1-Methoxy-2-propanol**

log Kow | -0.43 log Kow (25 °C)

**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** The product may not be released into the environment without control.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

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

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**European waste catalogue**

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

20 01 13\* solvents

15 01 02 plastic packaging

**SECTION 14: Transport information****14.1 UN-Number**

ADR, IMDG, IATA Void

**14.2 UN proper shipping name**

ADR, IMDG, IATA Void

**14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class Void

**14.4 Packing group**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user** Not applicable.**UN "Model Regulation":** Void**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The following substance(s) in this product is (are) identified by CAS number either in countries not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

Hydrocarbons, C14-C19, isoalkanes, cyclics, &lt; 2% aromatics: CAS 64742-46-7

**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**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

**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

ADR: Accord européen sur le transport 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

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*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*DNEL: Derived No-Effect Level (REACH)*  
*PNEC: Predicted No-Effect Concentration (REACH)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*IOELV = indicative occupational exposure limit values*  
*Flam. Liq. 3: Flammable liquids – Category 3*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
*Asp. Tox. 1: Aspiration hazard – Category 1*

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Revision: 27.07.2016

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

#### 1.1 Product identifier

**Trade name:** SONAX PROFILINE HeadlightProtection

**Article number:** 02760000, 02760410

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

##### Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category** PC9a Coatings and paints, thinners, paint removers

**Application of the substance / the mixture** Car care product

#### 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

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### 2.2 Label elements

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

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

##### Hazard pictograms



GHS02 GHS07

**Signal word** Danger

##### Hazard-determining components of labelling:

propan-2-ol

##### Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

##### 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.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P261 Avoid breathing spray.

P280 Wear eye protection.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Labelling of packages where the contents do not exceed 125 ml  
Hazard pictograms**



GHS02 GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

propan-2-ol

**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

**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.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Formulation consisting of pressurised gas and a dispersion of silica particles

#### Dangerous components:

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	25 - <50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-XXXX	butane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	5 - <10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-XXXX	propane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	5 - <10%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	3 - <5%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-XXXX	isobutane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	1 - <3%
CAS: 112-53-8 EINECS: 203-982-0 Reg.nr.: 01-2119485976-15-xxxx	dodecan-1-ol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319	1 - <3%

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

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:***Take affected persons out 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.**In case of unconsciousness place patient stably in side position for transportation.***After skin contact:***Generally the product does not irritate the skin.**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***Eye irritation**Drowsiness**Dizziness***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**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***Can form explosive gas-air mixtures.**In case of fire, the following can be released:**Carbon monoxide and carbon dioxide***5.3 Advice for firefighters****Protective equipment:***Do not inhale explosion gases or combustion gases.**Wear self-contained respiratory protective device.**Wear fully protective suit.***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**Wear protective equipment. Keep unprotected persons away.***6.2 Environmental precautions:***Do not allow to penetrate the ground/soil.**Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to item 13.***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.*

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See Section 13 for disposal information.

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**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.

**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.**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: 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
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**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)
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**CAS: 64-17-5 ethanol**

WEL (Great Britain)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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**DNELs****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)

**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 <sup>3</sup> (consumer) (acute short-term exposure - local effects)

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		114 mg/m <sup>3</sup> (consumer) (long-term exposure - systemic effects) 1900 mg/m <sup>3</sup> (worker) (acute short-term exposure - local effects) 950 mg/m <sup>3</sup> (worker) (long-term exposure - systemic effects)
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**CAS: 112-53-8 dodecan-1-ol**

Oral	DNEL	75 mg/kg bw/day (VK) 75 mg/kg bw/day (VL)
Dermal	DNEL	75 mg/kg bw/day (VK) 75 mg/kg bw/day (VL) 125 mg/bw/day (worker short-term) 125 mg/kg bw/day (worker long-term)
Inhalative	DNEL	65 mg/m <sup>3</sup> (VK) 65 mg/m <sup>3</sup> (VL) 220 mg/m <sup>3</sup> (worker short-term) 220 mg/m <sup>3</sup> (worker long-term)

**PNECs**

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

PNEC	140.9 mg/l (sporadic release) 2251 mg/l (STP) 28 mg/kg (gro) 552 mg/kg (sediment) 140.9 mg/l (water (fresh water)) 140.9 mg/l (water (sea water))
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**CAS: 64-17-5 ethanol**

PNEC	3.6 mg/kg (sediment (fresh water)) 2.9 mg/kg (sediment (sea water)) 0.63 mg/kg (soil) 0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water))
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**CAS: 112-53-8 dodecan-1-ol**

PNEC	0.021 mg/l (sewage plant) 0.0028 mg/l (freshwater (Süßwasser)) 1.1 mg/kg (sediment (fresh water)) 0.888 mg/kg (soil) 0.00028 mg/l (water (sea water)) 0.11 mg/kg (water (sea water))
------	---

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

**8.2 Exposure controls**

**Suitable technical control devices**

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

**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.

**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]

**Protection of hands:** Not required in normal cases

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**Eye protection:**  
Safety glasses  
[EN 166]

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

<b>Form:</b>	Aerosol
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not applicable.

##### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	≥ 78 °C (Active ingredient data )

**Flash point:** 16 °C (DIN 51755)  
(Active ingredient data )

**Flammability (solid, gaseous):** Not applicable.

##### Ignition temperature:

**Decomposition temperature:** Not determined.

**Self-igniting:** Not determined.

**Danger of explosion:** Not determined.  
In use, may form flammable/explosive vapour-air mixture.

##### Explosion limits:

<b>Lower:</b>	2.0 Vol.% (Main ingredient data) 1.5 Vol.% (Propellant data)
<b>Upper:</b>	12.0 Vol.% (Main ingredient data) 10.9 Vol.% (Propellant data)

**Vapour pressure:** Not determined.

**Density at 20 °C:** 0.87 - 0.88 g/cm<sup>3</sup>  
(Active ingredient data )

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not applicable.

##### Solubility in / Miscibility with

**water:** Partly miscible.

**Partition coefficient (n-octanol/water):** Not determined.

##### Viscosity:

**Flow time at 20 °C** 10-15 s (DIN EN ISO 2431/4mm)  
(Active ingredient data )

**Kinematic at 40 °C:** <20.5 mm<sup>2</sup>/s  
(Active ingredient data )

**9.2 Other information** No further relevant information available.

### 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.

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**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 toxicological effects** There are no toxicological findings on this mixture.**Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 67-63-0 propan-2-ol**

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50 / 6h	>25 mg/l (rat) (OECD 403)

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

Inhalative	LC50/4h	658 mg/l (rat)
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**CAS: 64-17-5 ethanol**

Oral	LD50	7060 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	20000 mg/l (rat)
	LD 50	5560 mg/kg (Gp)
		3450 mg/kg (mouse)
		6300 mg/kg (rabbit)

**CAS: 112-53-8 dodecan-1-ol**

Oral	LD50	>2000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (MS) (OECD-Prüfrichtlinie 402)
		>2000 mg/kg (rabbit)

**Primary irritant effect:****Skin corrosion/irritation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to reproduction.

**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****CAS: 112-53-8 dodecan-1-ol**

Oral	NOAEL	2000 mg/kg (rat)
		1.127 mg/kg (Ratte)

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

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

**SECTION 12: Ecological information**

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

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

EC50	>100 mg/l (bacteria)
EC50 / 72h	>100 mg/l (algae)
LC 50 / 96 h	9640 mg/l (Pimephales promelas)
LC50 / 24h	9714 mg/l (daphnia)

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

EC5 / 16h	6500 mg/l (Pseudomonas putida)
EC50 / 48h	9268 mg/l (Daphnia magna)
LC50 / 24h	>100 mg/l (Daphnia magna)
LC50 / 48h	8140 mg/l (Leuciscus idus)

**CAS: 112-53-8 dodecan-1-ol**

Inhalative	LC50/1	>71 mg/L (rat)
	EC50	>0.1 - 1 mg/l (Grünalge Pseudokirchneriella subcapitata) (OECD-Prüfrichtlinie 201)
	EC50 / 48h	>0.1 - 1 mg/l (Daphnia magna) (OECD Prüfrichtlinie 202)
	EC50 / 72h	>0.1-1 mg/l (Scenedesmus subspicatus) (OECD Prüfrichtlinie 201)
	LC 50 / 96 h	>1-10 mg/l (Pimephales promelas) (OECD-Prüfrichtlinie 203)
	NOEC / 21d	>0.01-0.1 mg/l (Daphnia magna) (OECD-Prüfrichtlinie 211; Literaturwert)

**12.2 Persistence and degradability****CAS: 67-63-0 propan-2-ol**

Biodegradation 53 %

**CAS: 112-53-8 dodecan-1-ol**

Biodegradation &gt;60 % (OECD TG 301 B)

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

**Additional ecological information:****General notes:** The product may not be released into the environment without control.**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dangerous waste in accordance with the Directive on the List of Waste Materials

**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

**SECTION 14: Transport information****14.1 UN-Number**

ADR, IMDG, IATA

UN1950

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### 14.2 UN proper shipping name

ADR 1950 AEROSOLS  
IMDG AEROSOLS  
IATA AEROSOLS, flammable

### 14.3 Transport hazard class(es)

ADR



Class 2 5F Gases.  
Label 2.1

IMDG, IATA



Class 2.1  
Label 2.1

### 14.4 Packing group

ADR, IMDG, IATA Void

### 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Gases.

### Transport/Additional information:

ADR

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

#### 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.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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**Abbreviations and acronyms:**

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

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentraion

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ADR: Accord européen sur le transport 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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

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

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