

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

Printing date 29.10.2020

Version: 3.00

Revision: 03.09.2020

### 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](mailto: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.

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.

P280 Wear 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.

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.

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**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

CAS: 541-02-6 decamethylcyclopentasiloxane

CAS: 540-97-6 Dodecamethylcyclohexasiloxane

**vPvB:**

CAS: 541-02-6 decamethylcyclopentasiloxane

CAS: 540-97-6 Dodecamethylcyclohexasiloxane

**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<br>EINECS: 200-661-7<br>Reg.nr.: 01-2119457558-25-xxxx  | propan-2-ol<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336                                          | 25-<50% |
| CAS: 541-02-6<br>EINECS: 208-764-9<br>Reg.nr.: 01-2119511367-43-xxxx | decamethylcyclopentasiloxane<br>Non-classified vPvB substance.<br>Non-classified PBT substance.                     | 25-<50% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx | butane<br>⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280                                                             | 5-<10%  |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 01-2119486944-21-xxxx  | propane<br>⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280                                                            | 5-<10%  |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Reg.nr.: 01-2119457610-43-xxxx  | ethanol<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319<br>Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 % | 3-<5%   |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27-xxxx  | isobutane<br>⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280                                                          | 1-<3%   |
| CAS: 112-53-8<br>EINECS: 203-982-0<br>Reg.nr.: 01-2119485976-15-xxxx | Lauryl alcohol<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319                            | 1-<3%   |
| CAS: 540-97-6<br>EINECS: 208-762-8<br>Reg.nr.: 01-2119517435-42-xxxx | Dodecamethylcyclohexasiloxane<br>Non-classified vPvB substance.<br>Non-classified PBT substance.                    | 0-<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.

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.

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**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 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

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.

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.

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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   |

##### 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)         |

##### CAS: 64-17-5 ethanol

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

**Regulatory information** WEL (Great Britain): EH40/2020

#### 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) |
|            |      | 1,900 mg/m <sup>3</sup> (worker) (acute short-term exposure - local effects) |
|            | DNEL | 114 mg/m <sup>3</sup> (consumer) (long-term exposure - systemic effects)     |
|            |      | 950 mg/m <sup>3</sup> (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 <sup>3</sup> (consumer) (longterm systematic effects) |
|            |      | 313 mg/m <sup>3</sup> (worker) (longterm systematic effects)  |
|            | DNEL | 155 mg/m <sup>3</sup> (worker) (longterm local effects)       |

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### 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)             |

#### CAS: 64-17-5 ethanol

|      |                                    |
|------|------------------------------------|
| PNEC | 2.75 mg/l                          |
|      | 580 mg/l (sewage plant)            |
|      | 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: 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.

#### 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.

#### Eye protection:

Safety glasses

[EN 166]

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Aerosol         |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

|           |                 |
|-----------|-----------------|
| pH-value: | Not applicable. |
|-----------|-----------------|

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**Change in condition**
**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:**  $\geq 78\text{ °C}$   
(Active ingredient data )

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

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

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Not determined.

**Explosive properties:** In use, may form flammable/explosive vapour-air mixture.

**Explosion limits:**
**Lower:** 2 Vol % (CAS: 67-63-0 propan-2-ol)  
1,5 Vol.% (Propellant data)

**Upper:** 12 Vol % (CAS: 67-63-0 propan-2-ol)  
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.

**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 | 5,840 mg/kg (rat) |
|------|------|-------------------|

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|                                     |            |                               |
|-------------------------------------|------------|-------------------------------|
| Dermal                              | LD50       | 13,900 mg/kg (rabbit)         |
| Inhalative                          | LC50 / 6 h | >25 mg/l (rat) (OECD 403)     |
| <b>CAS: 64-17-5 ethanol</b>         |            |                               |
| Oral                                | LD50       | 10,470 mg/kg (rat)            |
| Dermal                              | LD50       | >2,000 mg/kg (rat)            |
| Inhalative                          | LC50 / 4h  | >20 mg/m <sup>3</sup> (mouse) |
|                                     |            | 38 mg/m <sup>3</sup> (rat)    |
| <b>CAS: 112-53-8 Lauryl alcohol</b> |            |                               |
| Oral                                | LD50       | >2,000 mg/kg (rat) (OECD 401) |
| Dermal                              | LD50       | >5,000 mg/kg (rabbit)         |

### Primary irritant effect:

**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.

### Repeated dose toxicity

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

Oral NOAEL 1,760 mg/kg (rat)

### 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.

### Values relevant for classification:

**CAS: 112-53-8 Lauryl alcohol**

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

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

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

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

### STOT-single exposure

May cause drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

## 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**

|            |                                  |
|------------|----------------------------------|
| 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)                |

**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: 64-17-5 ethanol**

|            |                             |
|------------|-----------------------------|
| LC50 / 48h | 8,140 mg/l (Leuciscus idus) |
|------------|-----------------------------|

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|                                     |              |                                                  |
|-------------------------------------|--------------|--------------------------------------------------|
|                                     | EC50 / 48h   | >10,000 mg/l (Daphnia magna)                     |
|                                     | EC50 / 72h   | 275 mg/l (Chlorella vulgaris)                    |
| <b>CAS: 75-28-5 isobutane</b>       |              |                                                  |
|                                     | LC50 / 96 h  | 27.98 mg/l (fish)                                |
|                                     | EC50 / 4 d   | 7.71 mg/l (algae)                                |
| <b>CAS: 112-53-8 Lauryl alcohol</b> |              |                                                  |
| 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)  |

### 12.2 Persistence and degradability

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

Biodegradation 53 %

**CAS: 112-53-8 Lauryl alcohol**

Biodegradation &gt;60 % (OECD 301 D)

**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:**

CAS: 541-02-6 decamethylcyclopentasiloxane

CAS: 540-97-6 Dodecamethylcyclohexasiloxane

**vPvB:**

CAS: 541-02-6 decamethylcyclopentasiloxane

CAS: 540-97-6 Dodecamethylcyclohexasiloxane

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

## 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 dangerous substances

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, IMDG, IATA

UN1950

### 14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

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### 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.

### 14.7 Transport in bulk according to Annex II of

|                         |                 |
|-------------------------|-----------------|
| Marpol and the IBC Code | Not applicable. |
|-------------------------|-----------------|

### 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

#### European Directives:

EC/1907/2006 (REACH)

EC/1272/2008 (CLP)

EC/648/2004

#### 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.

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H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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

|                                                                                       |                                                                                                                                                |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Aerosols                                                                              | On basis of test data                                                                                                                          |
| Serious eye damage/eye irritation<br>Specific target organ toxicity (single exposure) | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

**Abbreviations and acronyms:**

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

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord 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 (Comp.): 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

**Version history and indication of changes:** Replaces version 2.01.

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