

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

Printing date 08.10.2021

Version: 5.00

Revision: 21.06.2021

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

#### 1.1 Product identifier

**Trade name:** SONAX XTREME Tyre Gloss Spray

**Article number:**

02353000, B02352090

**UFI:** FSF0-70GN-900C-M3TC

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

No further relevant information available.

**Application of the substance / the mixture**

Consumer uses: Private households / general public / consumers

Professional uses

Car care product

**Uses advised against** None

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

**Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

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

**Further information obtainable from:**

Product safety

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

Phone: + +49 (0) 8431 53 217

**United Kingdom:**

Anglo American Oil Company Ltd

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

Telephone: (+44) 01929 551557

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

#### 1.4 Emergency telephone number:

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

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

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

In Northern Ireland, contact your local GP

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 2 H411 Toxic 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 CLP regulation.

**Hazard pictograms**



GHS02

GHS07

GHS09

**Signal word** Danger

**Hazard-determining components of labelling:**

C6-7 Alkane/Cycloalkane

**Hazard statements**

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

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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H411 Toxic 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.

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:**

Buildup of explosive mixtures possible without sufficient ventilation.

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

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

**vPvB:**

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

**Determination of endocrine-disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to 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 and mixture of solvents with silicones.

**Dangerous components:**

EC No 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Alternative CAS number: 64742-49-0 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	50-<75%
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: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41-xxxx	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	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: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44-xxxx	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	1-<3%

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**Additional information:***For the wording of the listed hazard phrases refer to section 16.***Hydrocarbon mixture:***Benzene content < 0.1%**Cyclohexane is a part of the hydrocarbon mixture.**n-Hexane is a part of the hydrocarbon mixture.***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:***Immediately wash with water and soap and rinse thoroughly.**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**Skin irritation***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 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 (CO<sub>2</sub>)**Nitrogen oxides (NO<sub>x</sub>)**Silicon oxides***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.*

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### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation

**For non-emergency personnel**

Wear protective clothing.

Keep away from ignition sources.

**For emergency responders**

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

**6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

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

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 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.

Buildup of explosive mixtures possible without sufficient ventilation.

**Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Highly volatile, flammable constituents are released during processing.

Protect against electrostatic charges.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

**Further information about storage conditions:**

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.

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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: 106-97-8 butane

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
OEL (Ireland)	Short-term value: 1000 ppm

##### CAS: 74-98-6 propane

OEL (Ireland)	Asphx
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##### CAS: 110-82-7 cyclohexane

WEL (Great Britain)	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
IOELV (EU)	Long-term value: 700 mg/m <sup>3</sup> , 200 ppm
OEL (Ireland)	Long-term value: 700 mg/m <sup>3</sup> , 200 ppm IOELV

##### CAS: 75-28-5 isobutane

OEL (Ireland)	Short-term value: 1000 ppm
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##### CAS: 110-54-3 n-hexane

WEL (Great Britain)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
IOELV (EU)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
OEL (Ireland)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm IOELV, Sk

#### Regulatory information

WEL (Great Britain): EH40/2020

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

IOELV (EU): (EU) 2019/1831

#### DNELs

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemic effects)
Dermal	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemi effects) 773 mg/kg bw/day (worker) (chronic exposition / systemic effects)
Inhalative	DNEL	608 mg/m <sup>3</sup> (consumer) (chronic exposition / systemic effects) 2,035 mg/m <sup>3</sup> (worker) (chronic exposition / systemic effects)

**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.

##### Respiratory protection:

Ensure good ventilation/exhaustion at the workplace.

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

Identification colour: Brown

[DIN EN 14387]

**Hand protection** Protective gloves

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**Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

[EN 374]

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

**Eye/face protection** 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:**

Light yellow

**Odour:**

Petrol-like

**Melting point/freezing point:**

Undetermined.

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

60-120 °C

**Flammability**

Extremely flammable aerosol.

**Lower and upper explosion limit**

**Lower:**

0.6 Vol % (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

1,5 Vol.% (Propellant data)

**Upper:**

8 Vol % (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

10,9 Vol.% (Propellant data)

**Flash point:**

Not applicable.

**Auto-ignition temperature:**

Not determined.

**Decomposition temperature:**

Not determined.

**pH**

Not applicable.

**Viscosity:**

**Kinematic viscosity at 40 °C**

< 20.5 mm<sup>2</sup>/s

(Active ingredient data )

**Solubility**

**water:**

Not miscible or difficult to mix.

**Partition coefficient n-octanol/water (log value)**

Not determined.

**Vapour pressure at 20 °C:**

60 hPa (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

**Density and/or relative density**

**Density at 20 °C:**

0.78 - 0.79 g/cm<sup>3</sup>

(Active ingredient data )

**Vapour density**

Not determined.

#### 9.2 Other information

**Appearance:**

**Form:**

Aerosol

**Important information on protection of health and environment, and on safety.**

**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

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<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.

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

**10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air.

**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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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Inhalative	LC50 / 4h	>20 mg/l (rat) (OECD 403)
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**CAS: 110-82-7 cyclohexane**

Oral	LD50	>5,000 mg/kg (rabbit)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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Inhalative	LC50 / 4h	>32,880 mg/m <sup>3</sup> (rat)
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**CAS: 110-54-3 n-hexane**

Oral	LD50	3,200 mg/kg (rat)
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Dermal	LD50	3,350 mg/kg (rabbit)
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Inhalative	LC50/4d	172 mg/l (rat)
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**Skin corrosion/irritation** Causes skin irritation.

**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** May cause drowsiness or dizziness.

**STOT-repeated exposure** 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.**11.2 Information on other hazards****Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

LL50 / 96h	11.4 mg/l (Oncorhynchus mykiss) (OECD 203)
EL50 / 48h	3 mg/l (Daphnia magna) (OECD 202)
EL50 / 72h	30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LOEC	0.32 mg/l (Daphnia magna) (21d)
NOELR 72 h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC / 21 d	0.17 mg/l (Daphnia magna)

**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: 110-82-7 cyclohexane**

LC50 / 96h	4.53 mg/l (Pimephales promelas)
EC50 / 48h	2.4 mg/l (Daphnia magna)
EC50 / 72h	3.4 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)

**CAS: 110-54-3 n-hexane**

LL50 / 96h	12.51 mg/l (Oncorhynchus mykiss)
EL50 / 48h	21.85 mg/l (Daphnia magna)

**12.2 Persistence and degradability****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Biodegradation | 81 % (28d)

**CAS: 110-54-3 n-hexane**

Biodegradation | 83 % (10d (ECHA))

**12.3 Bioaccumulative potential****CAS: 110-82-7 cyclohexane**

log Kow | 3.44 (pH: 7, 25°C)

**CAS: 110-54-3 n-hexane**

log Kow | 4 (pH: 7, 20°C)

**12.4 Mobility in soil**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:  
Highly volatile, will partition rapidly to air.

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### 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:** Do not allow product to reach ground water, water course or sewage system.

## 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
HP4	Irritant - skin irritation and eye damage
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  
Label 2.1

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<b>14.4 Packing group</b> ADR/RID/ADN, IMDG	Void
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	Yes absent due to package size =<5l
<b>14.6 Special precautions for user</b>	see Sections 6-8 Warning: Gases.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	
ADR/RID/ADN	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D
<b>UN "Model Regulation":</b>	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) 74.29 %

Chemical safety assessment

Catégorie SEVESO (DIRECTIVE 2012/18/EU)

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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

Aerosols	On basis of test data
Skin corrosion/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.

**Version number of previous version: 4.02**

#### Abbreviations and acronyms:

vPvB: very persistent and very bioaccumulative

PBT: persistent, bioaccumulative, toxic

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

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (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

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

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

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

#### Sources

"Regulation (EC) Nr. 1907/2006 (REACH), 1272/2008 (CLP), 648/2004 (Detergents) in the respective valid version. National occupation exposure limits for each country in the respective valid version. Transportation regulations according to ADR, RID, IMDG, IATA in the respective valid version."

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