


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

- **1.1 Product identifier**
- **Trade name: PROTEX SPRAY**
- **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**  
Only for proper handling.  
Impregnation
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MOTOREX AG  
Bern-Zürich-Strasse 31, Postfach  
CH-4901 Langenthal  
Tel. +41 (0)62 919 75 75  
www.motorex.com
- **Further information obtainable from: msds@motorex.com**
- **1.4 Emergency telephone number:**  
In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

## 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.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
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 GB CLP regulation.
- **Hazard pictograms**  


GHS02   GHS07   GHS09
- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan
- **Hazard statements**  

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.

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- P103 Read carefully and follow all instructions.  
 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 dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves / eye protection / face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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:**

Contains biocidal products: propan-2-ol

**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: Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

	Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥25-≤50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥10-<20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-7.5%
CAS: 108-21-4 EINECS: 203-561-1 Index number: 607-024-00-6 Reg.nr.: 01-2119537214-46	isopropyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥1-≤7.5%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	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 %	0.25-1%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	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	0.25-1%

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· <b>Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>	
aliphatic hydrocarbons	≥30%

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

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

#### · 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

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### · 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

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

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

#### · 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.

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

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

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The recommended storage temperature is (deg.C): -10 - +50°C  
Keep container tightly sealed.
- **Storage class:** 2 B
- **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:

##### 106-97-8 butane, pure

WEL	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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##### 67-63-0 propan-2-ol

WEL	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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##### 108-21-4 isopropyl acetate

WEL	Short-term value: 849 mg/m <sup>3</sup> , 200 ppm
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##### 110-54-3 n-hexane

WEL	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
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##### 110-82-7 cyclohexane

WEL	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
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#### DNELs

##### Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan

Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m <sup>3</sup> (worker)
	DNEL/general population/Systemic effects/Long-term	608 mg/m <sup>3</sup> (consumer)

##### 67-63-0 propan-2-ol

Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	888 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	319 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	500 mg/m <sup>3</sup> (worker)
	DNEL/general population/Systemic effects/Long-term	89 mg/m <sup>3</sup> (consumer)

##### 108-21-4 isopropyl acetate

Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	420 mg/m <sup>3</sup> (worker)
	DNEL/Workers/Systemic effects/acute-short term	850 mg/m <sup>3</sup> (worker)
	DNEL / Workers / Local Effects / Long-term	420 mg/m <sup>3</sup> (worker)
	DNEL/general population/Systemic effects/Long-term	252 mg/m <sup>3</sup> (consumer)
	DNEL/general pop/Systemic effects/acute-short term	510 mg/m <sup>3</sup> (consumer)

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	<i>DNEL/general population/Local effects/Long-term</i>	<i>252 mg/m<sup>3</sup> (consumer)</i>
<b>110-82-7 cyclohexane</b>		
<i>Oral</i>	<i>DNEL/general population/Systemic effects/Long-term</i>	<i>59.4 mg/kg/24h (consumer)</i>
<i>Dermal</i>	<i>DNEL / Workers / Systemic effects / Long-term</i>	<i>2,016 mg/kg/24h (worker)</i>
	<i>DNEL/general population/Systemic effects/Long-term</i>	<i>1,186 mg/kg/24h (consumer)</i>
<i>Inhalative</i>	<i>DNEL / Workers / Systemic effects / Long-term</i>	<i>700 mg/m<sup>3</sup> (worker)</i>
	<i>DNEL/Workers/Systemic effects/acute-short term</i>	<i>700 mg/m<sup>3</sup> (worker)</i>
	<i>DNEL/Workers/Local effects/acute-short term</i>	<i>700 mg/m<sup>3</sup> (worker)</i>
	<i>DNEL / Workers / Local Effects / Long-term</i>	<i>700 mg/m<sup>3</sup> (worker)</i>
	<i>DNEL/general population/Systemic effects/Long-term</i>	<i>206 mg/m<sup>3</sup> (consumer)</i>
	<i>DNEL/general pop/Systemic effects/acute-short term</i>	<i>412 mg/m<sup>3</sup> (consumer)</i>
	<i>DNEL/general pop/Local effects/acute-short term</i>	<i>412 mg/m<sup>3</sup> (consumer)</i>
	<i>DNEL/general population/Local effects/Long-term</i>	<i>206 mg/m<sup>3</sup> (consumer)</i>

**· PNECs****67-63-0 propan-2-ol**

<i>Oral</i>	<i>PNEC / Predators / Secondary poisoning</i>	<i>160 mg/kg food (secondary poisoning (predators))</i>
	<i>PNEC / Aquatic organisms / Freshwater</i>	<i>140.9 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Marine water</i>	<i>140.9 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic org / intermittent releases (freshwater)</i>	<i>140.9 mg/l (aquatic organisms)</i>
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	<i>2,251 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	<i>552 mg/kg (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	<i>552 mg/kg (aquatic organisms)</i>
	<i>PNEC / Terrestrial organism / Soil</i>	<i>28 mg/kg (terrestrial organisms)</i>

**108-21-4 isopropyl acetate**

	<i>PNEC / Aquatic organisms / Freshwater</i>	<i>0.22 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Marine water</i>	<i>0.022 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic org / intermittent releases (freshwater)</i>	<i>1.1 mg/l (aquatic organisms)</i>
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	<i>190 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	<i>1.25 mg/kg (aquatic organisms)</i>
	<i>PNEC / Terrestrial organism / Soil</i>	<i>0.35 mg/kg (terrestrial organisms)</i>

**110-82-7 cyclohexane**

	<i>PNEC / Aquatic organisms / Freshwater</i>	<i>0.207 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Marine water</i>	<i>0.207 mg/l (aquatic organisms)</i>
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	<i>3.24 mg/l (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	<i>3.627 mg/kg (aquatic organisms)</i>
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	<i>3.627 mg/kg (aquatic organisms)</i>
	<i>PNEC / Terrestrial organism / Soil</i>	<i>2.99 mg/kg (terrestrial organisms)</i>

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.
- **Respiratory protection:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
 Not necessary if room is well-ventilated.  
 Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Safety glasses
- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Aerosol
- **Colour:** Colourless
- **Odour:** Solvent-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** -42 °C (DIN EN ISO 3405)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 1.5 Vol %
- **Upper:** 12 Vol %
- **Flash point:** <-30 °C
- **Auto-ignition temperature:** 365 °C (DIN 51794)
- **Decomposition temperature:** Not determined.
- **pH** Not determined.

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<ul style="list-style-type: none"> <li>· <b>Viscosity:</b></li> <li>· <b>Kinematic viscosity</b> <span style="float: right;">Not determined.</span></li> <li>· <b>Consistency</b></li> <li>· <b>Dynamic:</b> <span style="float: right;">Not determined.</span></li> <li>· <b>Solubility</b></li> <li>· <b>water:</b> <span style="float: right;">Not miscible or difficult to mix.</span></li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> <span style="float: right;">Not determined.</span></li> <li>· <b>Heat Capacity</b></li> <li>· <b>Vapour pressure at 20 °C:</b> <span style="float: right;">2,100 hPa</span></li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b> <span style="float: right;">0.69 g/cm<sup>3</sup> (ASTM D 4052)</span></li> <li>· <b>Relative density</b> <span style="float: right;">Not determined.</span></li> <li>· <b>Vapour density</b> <span style="float: right;">Not determined.</span></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> <span style="float: right;">Liquefied gas</span></li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Explosive properties:</b> <span style="float: right;">Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</span></li> <li>· <b>Solvent separation test:</b></li> <li>· <b>VOC (EC)</b> <span style="float: right;">99.05 %</span></li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> <span style="float: right;">Not applicable.</span></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> <span style="float: right;">Void</span></li> <li>· <b>Flammable gases</b> <span style="float: right;">Void</span></li> <li>· <b>Aerosols</b> <span style="float: right;">Extremely flammable aerosol. Pressurised container: May burst if heated.</span></li> <li>· <b>Oxidising gases</b> <span style="float: right;">Void</span></li> <li>· <b>Gases under pressure</b> <span style="float: right;">Void</span></li> <li>· <b>Flammable liquids</b> <span style="float: right;">Void</span></li> <li>· <b>Flammable solids</b> <span style="float: right;">Void</span></li> <li>· <b>Self-reactive substances and mixtures</b> <span style="float: right;">Void</span></li> <li>· <b>Pyrophoric liquids</b> <span style="float: right;">Void</span></li> <li>· <b>Pyrophoric solids</b> <span style="float: right;">Void</span></li> <li>· <b>Self-heating substances and mixtures</b> <span style="float: right;">Void</span></li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> <span style="float: right;">Void</span></li> <li>· <b>Oxidising liquids</b> <span style="float: right;">Void</span></li> <li>· <b>Oxidising solids</b> <span style="float: right;">Void</span></li> <li>· <b>Organic peroxides</b> <span style="float: right;">Void</span></li> <li>· <b>Corrosive to metals</b> <span style="float: right;">Void</span></li> <li>· <b>Desensitised explosives</b> <span style="float: right;">Void</span></li> </ul>	

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.

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- **10.5 Incompatible materials:** No further relevant information available.
- **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:**

**Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**

Oral	LD50	8 ml/kg (rat)
Dermal	LD50	4 ml/kg (rat)
	LD50	2,800-3,100 mg/kg (rat)
Inhalative	LC50 / 4h	25.2 mg/l (rat)
	NOAEC	8.117-24.3 mg/l (rat)

**106-97-8 butane, pure**

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
	LOAEC	21.6 mg/l (rat)
LOAEC	12,000 ppm (rat)	

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

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
	NOAEC	5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)

**74-98-6 propane**

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.214-21.394 mg/l (rat)
	LOAEC	21.64 mg/l (rat)
	LOAEC	12,000 ppm (rat)

**108-21-4 isopropyl acetate**

Oral	LD50	6,750 mg/kg (rat)
Dermal	LD50	20 ml/kg (rabbit)
Inhalative	LC50 / 8h	50.6 mg/l (rat)
	NOAEC	350 ppm (rat)

**110-82-7 cyclohexane**

Oral	LD50	5,000 mg/kg (rat)
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Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	32.88 mg/l (rat)
	LC50 / 4h	5,540 ppm (rat)
	NOAEC	500-2,000 ppm (mouse)
		500-7,000 ppm (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**

EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	11.4 mg/l/96h (fish)
LL50	15.8 mg/l/72h (fish)
LL0	5.1 mg/l/96h (fish)
EL50	3 mg/l/48h (aquatic invertebrates)
EL50	12 mg/l/24h (aquatic invertebrates)
EL50	10-100 mg/l/72h (algae / cyanobacteria)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	2.045 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

**106-97-8 butane, pure**

LC50	24.1-147.5 mg/l/96h (fish)
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)

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

LC50	9.64-10 mg/l/96h (fish)
LC50	10,000 mg/l/24h (aquatic invertebrates)
EC50	10,000 mg/l/24h (aquatic invertebrates)

**74-98-6 propane**

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

**108-21-4 isopropyl acetate**

LC50	400 mg/l/96h (fish)
LC50	400 mg/l/48h (fish)

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# Safety data sheet

## according to 1907/2006/EC, Article 31



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LC50	410 mg/l/24h (fish)
EC10	2,300 mg/l/48h (algae / cyanobacteria)
EC50	810 mg/l/24h (aquatic invertebrates)
EC50	37.1 mg/l/96h (algae / cyanobacteria)
EC50	250-370 mg/l/72h (algae / cyanobacteria)
EC50	110 mg/l/48h (aquatic invertebrates)
	5,600 mg/l/48h (algae / cyanobacteria)
NOEC	95-110 mg/l/72h (algae / cyanobacteria)

**110-82-7 cyclohexane**

LC50	4.53 mg/l/96h (fish)
EC50	0.9-2.4 mg/l/96h (aquatic invertebrates)
EC50	3.4-9.317 mg/l/72h (algae / cyanobacteria)
NOEC	0.9-0.94 mg/l/72h (algae / cyanobacteria)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

**Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**

Biodegradability	81 % (28d) (Biodegradability) (OECD 301 F)
------------------	--

**106-97-8 butane, pure**

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
-----------------------	--

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

Partition coefficient	0.05 [---] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)

**74-98-6 propane**

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
-----------------------	--

**108-21-4 isopropyl acetate**

Partition coefficient	1.02-1.36 [---] (log Kow) (Bioaccumulation)
Biodegradability	>76 % (28d) (Biodegradability)

**110-82-7 cyclohexane**

Partition coefficient	3.44 [---] (log Kow) (Bioaccumulation)
Biodegradability	77 % (28d) (Biodegradability) (OECD 301 F)

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

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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Trade name: **PROTEX SPRAY**

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### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

##### · Uncleaned packaging:

##### · Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

### 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, ENVIRONMENTALLY HAZARDOUS

##### · IMDG

AEROSOLS, MARINE POLLUTANT

##### · IATA

AEROSOLS, flammable

#### · 14.3 Transport hazard class(es)

##### · ADR/RID/ADN



##### · Class

2.5F Gases.

##### · Label

2.1

##### · IMDG



##### · Class

2.1 Gases.

##### · Label

2.1

##### · IATA



##### · Class

2.1 Gases.

##### · Label

2.1

#### · 14.4 Packing group

##### · ADR/RID/ADN, IMDG, IATA

Not classified as hazardous for transport

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<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR/RID/ADN):</b></li> </ul>	<p>Product contains environmentally hazardous substances: Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, &lt;5% n-hexane</p> <p>Yes</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code): -</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul>	<p>Warning: Gases.</p> <p>F-D,S-U</p> <p>SW1 Protected from sources of heat.</p> <p>SW2 Clear of living quarters.</p> <p>SG69 For AEROSOLS with a maximum capacity of 1 litre:</p> <p>Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.</p> <p>For AEROSOLS with a capacity above 1 litre:</p> <p>Segregation as for the appropriate subdivision of class 2.</p> <p>For WASTE AEROSOLS:</p> <p>Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	<p>-----</p>
<ul style="list-style-type: none"> <li>· <b>ADR/RID/ADN</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p> <p>2</p> <p>D</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS</p>

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

<ul style="list-style-type: none"> <li>· <b>Regulated explosives precursors</b></li> </ul>
--

None of the ingredients is listed.
------------------------------------

<ul style="list-style-type: none"> <li>· <b>Regulated poisons</b></li> </ul>
--

None of the ingredients is listed.
------------------------------------

<ul style="list-style-type: none"> <li>· <b>Reportable explosives precursors</b></li> </ul>
---

None of the ingredients is listed.
------------------------------------

<ul style="list-style-type: none"> <li>· <b>Reportable poisons</b></li> </ul>
---

None of the ingredients is listed.
------------------------------------

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
P3a FLAMMABLE AEROSOLS  
E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.*

*No special training instructions to ensure protection of human health and environment are required.*

- **purity requirement**
- **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.  
H319 Causes serious eye 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.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Abbreviations and acronyms:**  
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  
Eye Irrit. 2: Serious eye damage/eye 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
- **\* Data compared to the previous version altered.**

## Annex: Exposure scenario 1

- **Short title of the exposure scenario** Industrial use of sprays
- **Sector of Use**  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category**  
PC14 Metal surface treatment products  
PC34 Textile dyes, and impregnating products
- **Process category** PROC11 Non industrial spraying

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**Trade name: PROTEX SPRAY**

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- **Environmental release category**
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

## Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of sprays
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**  
PC14 Metal surface treatment products  
PC34 Textile dyes, and impregnating products
- **Process category** PROC11 Non industrial spraying
- **Environmental release category**
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.

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**Trade name: PROTEX SPRAY**

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

### Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of sprays
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category**  
PC14 Metal surface treatment products  
PC34 Textile dyes, and impregnating products
- **Process category** PROC11 Non industrial spraying
- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)  
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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**Trade name: PROTEX SPRAY**

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### Annex: Exposure scenario 4

- **Short title of the exposure scenario** *Industrial use of cleaning agents*
- **Sector of Use**  
*SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*
- **Product category** *PC35 Washing and cleaning products (including solvent based products)*
- **Process category**  
*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*  
*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*  
*PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*  
*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*  
*PROC10 Roller application or brushing*  
*PROC11 Non industrial spraying*  
*PROC13 Treatment of articles by dipping and pouring*  
*PROC15 Use as laboratory reagent*
- **Environmental release category**  
*ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)*
- **Description of the activities / processes covered in the Exposure Scenario**  
*See section 1 of the annex to the Safety Data Sheet.*
- **Conditions of use**
- **Duration and frequency** *5 workdays/week.*
- **Physical parameters**
- **Physical state** *Fluid*
- **Concentration of the substance in the mixture** *The substance is main component.*
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** *No special measures required.*
- **Other operational conditions affecting consumer exposure** *Not required.*
- **Other operational conditions affecting consumer exposure during the use of the product**  
*Not applicable.*
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** *No special measures required.*
- **Technical protective measures** *No special measures required.*
- **Personal protective measures** *No special measures required.*
- **Measures for consumer protection** *No special measures required.*
- **Environmental protection measures**
- **Air** *No special measures required.*
- **Water** *No special measures required.*
- **Disposal measures** *Ensure that waste is collected and contained.*
- **Disposal procedures** *Dispose of product residues with household waste.*
- **Waste type** *Partially emptied and uncleaned packaging*
- **Exposure estimation**
- **Consumer** *Not relevant for this Exposure Scenario.*
- **Guidance for downstream users** *No further relevant information available.*

### Annex: Exposure scenario 5

- **Short title of the exposure scenario** *Professional use of cleaning agents*
- **Sector of Use**  
*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*
- **Product category** *PC35 Washing and cleaning products (including solvent based products)*

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**Trade name: PROTEX SPRAY**

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- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC10 Roller application or brushing
  - PROC11 Non industrial spraying
  - PROC13 Treatment of articles by dipping and pouring
  - PROC15 Use as laboratory reagent
- **Environmental release category**
  - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**
  - See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
  - Duration and frequency 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

**Annex: Exposure scenario 6**

- **Short title of the exposure scenario** Private use of cleaning agents
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC10 Roller application or brushing
  - PROC11 Non industrial spraying
  - PROC13 Treatment of articles by dipping and pouring

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- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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