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## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1. Product identifier

Trade name/designation:

RAVENOL RV-46 Multi Spray

Article No.:

1360306

UFI:

JF1F-U9A6-GG0S-3Y8G

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

Use of the substance/mixture:

Technical Spray

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH

Produktsicherheit

Jöllenbecker Str. 2

33824 Werther

Germany

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): sdb@ravenol.de

#### 1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +1 872 5888271 (Contract ID: RAV)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	Calculation method.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

Signal word: Danger



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**Hazard components for labelling:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Hazard statements for health hazards	
H336	May cause drowsiness or dizziness.
Precautionary statements	
P102	Keep out of reach of children.
Precautionary statements Prevention	
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.
Precautionary statements Response	
P312	Call a POISON CENTER/doctor/Emergency telephone number if you feel unwell.
Precautionary statements Storage	
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

**Other adverse effects:**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 919-857-5 REACH No.: 01-2119463258-33	<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	> 25 - ≤ 50 weight-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	<b>propane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger <b>Acute Toxicity Estimate</b> ATE (inhalation, gases) 520,400 ppmV	> 10 - ≤ 25 weight-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	<b>butane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger <b>Acute Toxicity Estimate</b> ATE (inhalation, gases) 658 ppmV	> 10 - ≤ 25 weight-%
CAS No.: 68608-26-4 EC No.: 271-781-5 REACH No.: 01-2119527859-22	<b>Sulfonic acids, petroleum, sodium salts</b> Eye Irrit. 2 (H319) Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	≤ 3 weight-%



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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0 REACH No.: 01-2119485395-27	<b>isobutane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	≤ 3 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

### 4.2. Most important symptoms and effects, both acute and delayed

The following symptoms may occur:

In case of eye contact: erythema (redness)

IF INHALED: Irritation to respiratory tract, Cough, Nausea, Vomiting, Headache, fatigue, Dizziness, Unconsciousness

In case of skin contact: skin irritation. Repeated exposure may cause skin dryness or cracking.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.  
 Use water spray jet to protect personnel and to cool endangered containers.

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

Extremely flammable aerosol. Pressurized container: May burst if heated.

#### Hazardous combustion products:

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), aldehydes, carbon black, Gases/vapours, toxic

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Use personal protection equipment. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes and clothes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Protective equipment:**

Personal protection equipment: see section 8

**Emergency procedures:**

Remove all sources of ignition. Remove persons to safety. Provide adequate ventilation.

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Use appropriate respiratory protection.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Clean contaminated articles and floor according to the environmental legislation.

**Other information:**

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Pressurised container: May burst if heated. Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Do not breathe gas/vapour/aerosol.

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Use appropriate container to avoid environmental contamination.

**Fire prevent measures:**

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking.

**Measures to prevent aerosol and dust generation:**

Use only in well-ventilated areas.

**Environmental precautions:**

Shafts and sewers must be protected from entry of the product.

**Advices on general occupational hygiene**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Requirements for storage rooms and vessels:**

Observe legal regulations and regulations.

**Hints on storage assembly:**

Do not store together with:  
Oxidizing agent



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Pyrophoric or self-heating substances  
 Food and feedingstuffs  
**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters  
**Further information on storage conditions:**  
 Protect against: Frost, UV-radiation/sunlight  
 maximum storage temperature: 50 °C

**7.3. Specific end use(s)**

**Recommendation:**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.1.1. Occupational exposure limit values**

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
CH from 1 Jan 2024	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> ) ② 4,000 ppm (7,200 mg/m <sup>3</sup> ) ⑤ Messmeth: NIOSH
PL	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,800 mg/m <sup>3</sup>
NO	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 500 ppm (900 mg/m <sup>3</sup> )
HTP (FI)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 800 ppm (1,500 mg/m <sup>3</sup> ) ② 1,100 ppm (2,000 mg/m <sup>3</sup> ) ⑤ liite 4
TRGS 900 (DE)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> ) ② 4,000 ppm (7,200 mg/m <sup>3</sup> ) ⑤ DFG
BG	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,800 mg/m <sup>3</sup>
DK	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> ) ② 2,000 ppm (3,600 mg/m <sup>3</sup> )
BE	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
RO	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 778 ppm (1,400 mg/m <sup>3</sup> ) ② 1,000 ppm (1,800 mg/m <sup>3</sup> )
EE	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
Alberta (CA)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
SI	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> ) ② 4,000 ppm (7,200 mg/m <sup>3</sup> )



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TW	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
IS	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
MY from 1 Jan 2000	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 2,500 ppm
GR from 1 Oct 2016	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
LV from 7 Apr 2015	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
IDLH (US) from 1 Jan 1994	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 2,100 ppm [10% LEL]
ES from 8 Jun 2023	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm
OSHA (US)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
NIOSH (US)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
MY from 1 Jan 2000	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
CH from 1 Jan 2024	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> ) ② 3,200 ppm (7,600 mg/m <sup>3</sup> )
MAK (AT)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
PL	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,900 mg/m <sup>3</sup> ② 3,000 mg/m <sup>3</sup>
TRGS 900 (DE)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> ) ⑤ DFG
NO	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 250 ppm (600 mg/m <sup>3</sup> )
IE from 5 Dec 2011	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm
HTP (FI)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ liite 4
DK	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> )
MAK (AT)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
BG	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,900 mg/m <sup>3</sup>
HR	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 600 ppm (1,450 mg/m <sup>3</sup> ) ② 750 ppm (1,810 mg/m <sup>3</sup> ) ⑤ Karc 1A, Muta 1B
BE from 3 Oct 2018	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	② 980 ppm (2,370 mg/m <sup>3</sup> )
EE	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,500 mg/m <sup>3</sup> )
Alberta (CA) from 1 Jun 2018	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm
ES from 1 Jan 2015	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm
LV	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 300 mg/m <sup>3</sup>
BC (CA) from 1 Jun 2018	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	② 1,000 ppm ⑤ EX
TSH (SK) from 1 May 2019	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ karc 1A
VLA (FR)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
WEL (GB)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 600 ppm (1,450 mg/m <sup>3</sup> ) ② 750 ppm (1,810 mg/m <sup>3</sup> )
SI	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> )
TW	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
KR	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
IS	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 500 ppm (1,200 mg/m <sup>3</sup> )
HU	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 2,350 mg/m <sup>3</sup> ② 9,400 mg/m <sup>3</sup> ⑤ N
GR from 1 Oct 2016	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,350 mg/m <sup>3</sup> )
JP	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 500 ppm (1,200 mg/m <sup>3</sup> )
RU	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 300 mg/m <sup>3</sup> ③ 900 mg/m <sup>3</sup>



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IDLH (US) from 1 Jan 2016	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,600 ppm [ $>10\%$ LEL]
NIOSH (US)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2017	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm
Québec (CA)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
ACGIH (US)	<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5	① 5 mg/m <sup>3</sup>
CH from 1 Jan 2024	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> ) ② 3,200 ppm (7,600 mg/m <sup>3</sup> )
HTP (FI)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ liite 4
MAK (AT)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./SchichtMomentanwert)
BE from 3 Oct 2018	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 980 ppm (2,370 mg/m <sup>3</sup> )
EE	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> )
TSH (SK) from 1 May 2019	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ karc 1A
SI	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> )
KR from 20 Mar 2018	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm
BC (CA) from 1 Mar 2022	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,000 ppm ⑤ EX
IE from 21 Aug 2018	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,000 ppm
Québec (CA) from 14 Mar 2024	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,000 ppm
NIOSH (US)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2017	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm
TRGS 900 (DE)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> ) ⑤ DFG



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MAK (AT)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> )
TRGS 900 (DE)	<b>Hydrocarbons, TRGS 900</b>	① 50 mg/m <sup>3</sup> ⑤ Mass fraction (wt %): 50

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5	1,500 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5	900 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5	300 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5	300 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5	0.66 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

### 8.2.2. Personal protection equipment



#### Eye/face protection:

Suitable eye protection: Eye glasses with side protection  
 DIN-/EN-Norms EN 166

#### Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)  
 Thickness of the glove material: ≥ 0,4 mm

Breakthrough time: 480 min

Breakthrough times and swelling properties of the material must be taken into consideration.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

#### Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Suitable respiratory protection apparatus: Combination filtering device



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Filtering device with filter or ventilator filtering device of type: AX  
 Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**8.2.3. Environmental exposure controls**

See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

**Physical state:** Liquid

**Form:** Aerosol (Liquid)

**Colour:** amber

**Odour:** characteristic

**flammability:** Yes

**Safety relevant basis data**

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Melting point	<i>not applicable</i>		
Freezing point	<i>not applicable</i>		
Initial boiling point and boiling range	<i>No data available</i>		
Decomposition temperature	<i>not applicable</i>		
Flash point	<i>not applicable</i>		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	<i>No data available</i>		
Upper/lower flammability or explosive limits	0.6 - 10.9 Vol-%		
Vapour pressure	210 kPa		
Vapour density	<i>not applicable</i>		
Density	0.715 g/cm <sup>3</sup>	20 °C	
Relative density	<i>not applicable</i>		
Bulk density	<i>not applicable</i>		
Water solubility	practically insoluble		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>not applicable</i>		

**9.2. Other information**

Not applicable

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Extremely flammable aerosol.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Extremely flammable aerosol. Pressurized container: May burst if heated. Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharge.

**10.5. Incompatible materials**

Oxidizing agent

Pyrophoric or self-heating substances

**10.6. Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), carbon black, aldehydes

Gases/vapours, toxic



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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	EC No.: 919-857-5
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat)	
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)	
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L	
<b>propane</b>	CAS No.: 74-98-6 EC No.: 200-827-9
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 520,400 ppmV 2 h (mouse)	
<b>butane</b>	CAS No.: 106-97-8 EC No.: 203-448-7
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 658 ppmV 4 h (Rat) GESTIS	
<b>Sulfonic acids, petroleum, sodium salts</b>	CAS No.: 68608-26-4 EC No.: 271-781-5
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (rat) FHS 16CFR1500.3	
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)	
<b>isobutane</b>	CAS No.: 75-28-5 EC No.: 200-857-2
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 1,237 mg/L	

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

#### 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.

#### Aspiration hazard:

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

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meet the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	EC No.: 919-857-5
<b>LC<sub>50</sub>:</b> >1,000 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (Rainbow trout)) OECD 203	
<b>EC<sub>50</sub>:</b> >1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202	
<b>ErC<sub>50</sub>:</b> >1,000 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> ) OECD 201	



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<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish, fish) United States Environmental Protection A
<b>LC<sub>50</sub></b> : 14.22 mg/L 2 d (crustaceans, Daphnid no other information.)
<b>LC<sub>50</sub></b> : 24.11 mg/L 4 d (fish, Fish, no other information)
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia pulex (water flea))
<b>EC<sub>50</sub></b> : 7.71 mg/L 4 d (Algae/water plant, Green algae (no further information))
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant, Algae/water plant) USEPA OPPT Risk Assessment Division (200)
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish, fish) United States Environmental Protection A
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia pulex (water flea)) USEPA OPPT Risk Assessment Division (200)
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant, Algae/water plant) USEPA OPPT Risk Assessment Division (200)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant)
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5
<b>EC<sub>50</sub></b> : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
<b>EC<sub>50</sub></b> : >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
<b>NOEC</b> : 1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
<b>NOEC</b> : 1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>LC<sub>50</sub></b> : 91.42 mg/L 4 d (fish) United States Environmental Protection A
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia pulex (water flea)) USEPA OPPT Risk Assessment Division (200)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant) USEPA OPPT Risk Assessment Division (200)

**Assessment/classification:**

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

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

**12.2. Persistence and degradability**

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5
<b>Biodegradation:</b> Yes, rapidly
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>Biodegradation:</b> not applicable
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>Biodegradation:</b> not applicable
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5
<b>Biodegradation:</b> Yes, slowly

**Additional information:**

The product has not been tested.

**12.3. Bioaccumulative potential**

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5
<b>Log K<sub>OW</sub></b> : 5
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>Log K<sub>OW</sub></b> : 1.09
<b>Bioconcentration factor (BCF)</b> : 13.18
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>Log K<sub>OW</sub></b> : 1.09
<b>Bioconcentration factor (BCF)</b> : 33.88
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5
<b>Log K<sub>OW</sub></b> : 41.63



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<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>Log K<sub>ow</sub></b> : 1.09

**Partition coefficient: n-octanol/water:**  
not applicable

**Accumulation / Evaluation:**  
The product has not been tested.

**12.4. Mobility in soil**  
The product has not been tested.

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

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> EC No.: 919-857-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6. Endocrine disrupting properties**  
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**  
No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**  
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**13.1.1. Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV Directive 2008/98/EC (Waste Framework Directive)**

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 14	Ecotoxic

**Waste code packaging**

15 01 04	metallic packaging
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**Directive 2008/98/EC (Waste Framework Directive)**

HP 3	Flammable
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**Waste treatment options**

**Appropriate disposal / Product:**  
Dispose of waste according to applicable legislation.

**Appropriate disposal / Package:**  
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.





**13.2. Additional information**  
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
		-	
<b>14.5. Environmental hazards</b>			
No	No data available	No	No
<b>14.6. Special precautions for user</b>			
<b>Classification code:</b> 5F	<b>Classification code:</b> 5F	<b>EmS-No.:</b> F-D, S-U	No data available
<b>Tunnel restriction code:</b> (D)			

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**SECTION 15: Regulatory information**

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

**15.1.1. EU legislation**

**Other regulations (EU):**

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Use restriction according to REACH annex XVII, no.: 3, 28, 40, 75

Aerosol Directive (75/324/EEC)

Maximum VOC content of the product in a ready to use condition: 480 g/L

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**

Volatile organic compounds (VOC) content in percent by weight: 67.11 weight-%

**15.1.2. National regulations**

 **[DE] National regulations**

**Restrictions of occupation**

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

**Störfallverordnung (12. BImSchV)**

**for substances contained in the product:**

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

**Remark:**

5.2.5: 46 - 100 %

**Water hazard class**

**WGK:**

1 - slightly hazardous to water

**Source:**

Self-classification (mixture; calculation rule).



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### Technische Regeln für Gefahrstoffe

TRGS 500  
TRGS 510  
TRGS 900

### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868  
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195



### [SK] National regulations

#### Other regulations, restrictions and prohibition regulations

Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a doplnení niektorých zákonov (chemický zákon).  
Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov.  
Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých zákonov, v znení neskorších predpisov.  
Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1.  
Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov.  
Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov.  
Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov.  
Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich používanie a o zmene a doplnení niektorých zákonov (biocídny zákon).

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

not relevant

### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe



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UN United Nations

VOC Volatile organic compounds

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances

hazardous to water Rigoletto (catalog substances hazardous to water)

Substance name	Type	source of supply
<b>Sulfonic acids, petroleum, sodium salts</b> CAS No.: 68608-26-4 EC No.: 271-781-5	Classification of the substance or mixture; LD <sub>50</sub> oral; LD <sub>50</sub> dermal; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	LC <sub>50</sub> Acute inhalation toxicity (gas); LC <sub>50</sub> ; EC <sub>50</sub>	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Calculation method.

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.