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

1.1 Product identifier

Express Racing Spray

5509299 Express Racing Spray 125ml

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

Relevant identified uses of the substance or mixture:
- Waxes
  - Sector of use [SU]: SU21 - Consumer uses: Private households (=general public = consumers)
  - Chemical product category [PC]: PC15 - Non-metal-surface treatment products
  - Environmental Release Category [ERC]:
    - ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
    - ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

Brav Germany GmbH, Junkersstr. 1, 82178 Puchheim, Germany
Phone: +49 (0) 89 849 369 0, Fax: +49 (0) 89 849 369 13
info@brav-germany.com, www.brav-germany.com

Toko AG
Industriestrasse 4
CH-9450 Altstätten SG
Tel.: +41 (0) 71 757 73 73 Fax: +41 (0) 71 757 73 00
www.toko.ch
www.facebook.com/tokoworldwide

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:
---
Telephone number of the company in case of emergencies:
+49 (0) 700 / 24 112 112 (SWS)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit.</td>
<td>2</td>
<td>H319-Causes serious eye irritation.</td>
</tr>
</tbody>
</table>
STOT SE 3 H336-May cause drowsiness or dizziness.
Aerosol 1 H222-Extremely flammable aerosol.
Aerosol 1 H229-Pressurised container: May burst if heated.

### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

Danger


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 vapours or spray. P271-Use only outdoors or in a well-ventilated area.
P312-Call a POISON CENTRE / doctor if you feel unwell.
P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.
Propan-2-ol

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

### SECTION 3: Composition/information on ingredients

#### Aerosol

**3.1 Substance**

n.a.

**3.2 Mixture**

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>Registration number (REACH)</th>
<th>01-2119457558-25-XXXX</th>
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<tr>
<td></td>
<td>Index</td>
<td>603-117-00-0</td>
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<tr>
<td></td>
<td>EINECS, ELINCS, NLP</td>
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<td></td>
<td>CAS</td>
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<tr>
<td></td>
<td>content %</td>
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</table>

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
4.1 Description of first aid measures
First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

**Inhalation**
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
If the person is unconscious, place in a stable side position and consult a doctor.

**Skin contact**
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

**Eye contact**
Remove contact lenses.
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

**Ingestion**
Typically no exposure pathway.
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
The following may occur:
- Irritation of the respiratory tract
- Coughing
- Headaches
- Dizziness
- Effects/damages the central nervous system
- Coordination disorders
- Mental confusion
- Other dangerous properties cannot be ruled out.

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

---

5.1 Extinguishing media
**Suitable extinguishing media**
- CO2
- Extinction powder
- Water jet spray
- Alcohol resistant foam

**Unsuitable extinguishing media**
- High volume water jet

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
- Oxides of carbon
- Toxic gases
- Danger of bursting (explosion) when heated
- Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
If spray or gas escapes, ensure ample fresh air is available.
Without adequate ventilation, formation of explosive mixtures may be possible.
Active substance:
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations
Ensure good ventilation.
Avoid inhalation of the vapours.
Avoid contact with eyes or skin.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.
Do not use on hot surfaces.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of access to unauthorised individuals.
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Do not store with flammable or self-igniting materials.
Observe special storage conditions.
Observe special regulations for aerosols!
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well-ventilated place.
Store cool.

7.3 Specific end use(s)
No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
### Express Racing Spray

#### Chemical Name: Propan-2-ol

- **WEL-TWA:** 400 ppm (999 mg/m³)
- **WEL-STEL:** 500 ppm (1250 mg/m³)

**Monitoring procedures:**
- Compur - KITA-122 SA(C) (549 277)
- Compur - KITA-150 U (550 382)
- Draeger - Alcohol 25/a i-Propanol (81 01 631)
- DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 6) - 1998, 2002
- Draeger - Alcohol 100/a (CH 29 701)

**BMGV:** ---

**Other information:** ---

#### Chemical Name: Paraffin wax, fume

- **WEL-TWA:** 2 mg/m³
- **WEL-STEL:** 6 mg/m³

**BMGV:** ---

**Other information:** ---

#### Chemical Name: Butane

- **WEL-TWA:** 600 ppm (1450 mg/m³)
- **WEL-STEL:** 750 ppm (1810 mg/m³)

**Monitoring procedures:**
- Compur - KITA-221 SA (549 459)

**BMGV:** ---

**Other information:** ---

#### Chemical Name: Propane

- **WEL-TWA:** 1000 ppm (ACGIH)
- **WEL-STEL:** ---

**Monitoring procedures:**
- Compur - KITA-125 SA (549 954)

**BMGV:** ---

**Other information:** ---

#### Chemical Name: Isobutane

- **WEL-TWA:** 1000 ppm (EX) (ACGIH)
- **WEL-STEL:** ---

**Monitoring procedures:**
- Compur - KITA-113 SB(C) (549 368)

**BMGV:** ---

**Other information:** ---

---

### Propan-2-ol

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
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<td>mg/l</td>
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<td></td>
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<tr>
<td>Environment - marine</td>
<td>PNEC</td>
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<td>mg/l</td>
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<td></td>
<td></td>
</tr>
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<td>Environment - sediment, freshwater</td>
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<tr>
<td>Environment - sediment, marine</td>
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<tr>
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<td>2251</td>
<td>mg/l</td>
<td></td>
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<tr>
<td>Environment - water, sporadic (intermittent) release</td>
<td>PNEC</td>
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<td>mg/l</td>
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<td></td>
<td></td>
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<tr>
<td>Consumer Human - dermal</td>
<td>Long term</td>
<td>DNEL</td>
<td>319</td>
<td>mg/kg</td>
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<tr>
<td>Consumer Human - inhalation</td>
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<td>DNEL</td>
<td>89</td>
<td>mg/m³</td>
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<td>Consumer Human - oral</td>
<td>Long term</td>
<td>DNEL</td>
<td>26</td>
<td>mg/kg</td>
<td>(1 d)</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - dermal</td>
<td>Long term</td>
<td>DNEL</td>
<td>888</td>
<td>mg/kg</td>
<td>(1 d)</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - inhalation</td>
<td>Long term</td>
<td>DNEL</td>
<td>500</td>
<td>mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
With danger of contact with eyes.
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
Normally not necessary.
In case of direct contact with the ingredients:
If applicable
Safety gloves made of butyl (EN 374)
Protective nitrile gloves (EN 374).
Minimum layer thickness in mm:
\[ \geq 0,35 \]
Permeation time (penetration time) in minutes:
\[ \geq 480 \]
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective hand cream recommended.

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
Normally not necessary.
If OES or MEL is exceeded.
Filter A2 P2 (EN 14387), code colour brown, white
At high concentrations:
Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Colour: Clear
Odour: Alcoholic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: 82 - 83 °C (DIN 53171, Propan-2-ol)
Flash point: Not determined
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Lower explosive limit: 2 Vol-% (20°C, Propan-2-ol)
Upper explosive limit: 12 Vol-% (20°C, Propan-2-ol)
Vapour pressure: Not determined
Vapour density (air = 1): Not determined
Density: 0,75 - 0,85 g/cm³ (20°C)
Bulk density: n.a.
Solubility(ies): Not determined
Water solubility: Not determined
Partition coefficient (n-octanol/water): Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined
Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

9.2 Other information
Oxidising properties: No

SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions are known.

10.4 Conditions to avoid
See also section 7.
Heating, open flame, ignition sources
Pressure increase will result in danger of bursting.

10.5 Incompatible materials
Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products
See also section 5.2
No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No information available at present.
Express Racing Spray

Possibly more information on health effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>4570-5840</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
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<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>13900</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
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<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>30</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 404 (Acute Inhalation Toxicity)</td>
<td>Not irritant</td>
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<td>Skin corrosion/irritation:</td>
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<td>Rabbit</td>
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<td>Guinea pig</td>
<td>OECD 406 (Skin Sensitisation)</td>
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<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td>Salmonella typhimurium</td>
<td>(Ames-Test)</td>
<td>Negative</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Negative</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure (STOT-RE):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Target organ(s): liver</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea</td>
<td></td>
</tr>
</tbody>
</table>

Propan-2-ol

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
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<th>Test method</th>
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</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>30</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 404 (Acute Inhalation Toxicity)</td>
<td>Not irritant</td>
</tr>
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<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
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<td>Eye Irrit. 2</td>
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<td>Respiratory or skin sensitisation:</td>
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<td></td>
<td>Guinea pig</td>
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<tr>
<td>Germ cell mutagenicity:</td>
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<td>Reproductive toxicity:</td>
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<td>Negative</td>
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<td>Specific target organ toxicity - repeated exposure (STOT-RE):</td>
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<td></td>
<td></td>
<td>Target organ(s): liver</td>
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</tr>
<tr>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea</td>
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</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure (STOT-RE), oral:</td>
<td>NOAEL</td>
<td>900</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)</td>
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</table>
**Butane**

<table>
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<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>[OECD 471 (Bacterial Reverse Mutation Test)]</td>
<td>Negative</td>
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<td>Germ cell mutagenicity:</td>
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<tr>
<td>Aspiration hazard:</td>
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<td>Symptoms</td>
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**Propane**

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<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>[OECD 471 (Bacterial Reverse Mutation Test)]</td>
<td>Negative</td>
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<tr>
<td>Serious eye damage/irritation:</td>
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<td></td>
<td></td>
<td>Not irritant</td>
<td></td>
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<tr>
<td>Germ cell mutagenicity:</td>
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<td></td>
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<tr>
<td>Reproductive toxicity (Developmental toxicity):</td>
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<td>No</td>
<td></td>
</tr>
<tr>
<td>Symptoms</td>
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<td></td>
<td></td>
<td></td>
<td>breathing difficulties, unconsciousnes s, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.</td>
<td></td>
</tr>
</tbody>
</table>

**Isobutane**

<table>
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<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td></td>
<td>Not irritant</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
<td></td>
<td>Negative</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[OECD 471 (Bacterial Reverse Mutation Test)]</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
Express Racing Spray

Symptoms:
unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;100</td>
<td>mg/l</td>
<td>Leuciscus idus</td>
<td>OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>2285</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>&gt;100</td>
<td>mg/l</td>
<td>Desmodesmus subspicatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td></td>
<td>21d</td>
<td>95</td>
<td>%</td>
<td></td>
<td>OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>0,05</td>
<td></td>
<td></td>
<td>OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)</td>
<td></td>
</tr>
<tr>
<td>12.4. Mobility in soil:</td>
<td>Koc</td>
<td></td>
<td>1,1</td>
<td></td>
<td></td>
<td></td>
<td>Expert judgement</td>
</tr>
<tr>
<td>Toxicity to bacteria:</td>
<td>EC50</td>
<td></td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>activated sludge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>ThOD</td>
<td>2.4</td>
<td></td>
<td>g/g</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>BOD5</td>
<td>53</td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>COD</td>
<td>96</td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

References
### Butane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>24.11</td>
<td>mg/l</td>
<td></td>
<td>QSAR</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>LC50</td>
<td>48h</td>
<td>14.22</td>
<td>mg/l</td>
<td></td>
<td>QSAR</td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>2.98</td>
<td></td>
<td></td>
<td></td>
<td>A notable biological accumulation potential is not to be expected (LogPow 1-3).</td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
</tr>
</tbody>
</table>

### Propane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>2.28</td>
<td></td>
<td></td>
<td></td>
<td>A notable biological accumulation potential is not to be expected (LogPow 1-3).</td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
</tr>
</tbody>
</table>

### Isobutane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>2.86</td>
<td></td>
<td></td>
<td></td>
<td>A notable biological accumulation potential is not to be expected (LogPow 1-3).</td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>27.98</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>96h</td>
<td>7.71</td>
<td>mg/l</td>
<td></td>
<td></td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**For the substance / mixture / residual amounts**

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)
16 05 04 gases in pressure containers (including halons) containing hazardous substances
Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
SECTION 14: Transport information

General statements
14.1. UN number: 1950

Transport by road/by rail (ADR/RID)
14.2. UN proper shipping name: UN 1950 AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Classification code: 5F
LQ: 1 L
14.5. Environmental hazards: Not applicable
Tunnel restriction code: D

Transport by sea (IMDG-code)
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
EmS: F-D, S-U
Marine Pollutant: n.a
14.5. Environmental hazards: Not applicable

Transport by air (IATA)
14.2. UN proper shipping name: Aerosols, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
14.5. Environmental hazards: Not applicable

14.6. Special precautions for user
Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):
Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
--- | --- | --- | ---
P3a | 11.1 | 150 (netto) | 500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

<table>
<thead>
<tr>
<th>Entry Nr</th>
<th>Dangerous substances</th>
<th>Notes to Annex I</th>
<th>Qualifying quantity (tonnes) for the application of - Lower-tier requirements</th>
<th>Qualifying quantity (tonnes) for the application of - Upper-tier requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas</td>
<td>19</td>
<td>50</td>
<td>200</td>
</tr>
</tbody>
</table>

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): ~ 95 %

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2, 3, 8, 11, 12, 16

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

<table>
<thead>
<tr>
<th>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</th>
<th>Evaluation method used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>Aerosol 1, H222</td>
<td>Classification based on test data.</td>
</tr>
<tr>
<td>Aerosol 1, H229</td>
<td>Classification based on test data.</td>
</tr>
</tbody>
</table>

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Eye Irrit. — Eye irritation
STOT SE — Specific target organ toxicity - single exposure - narcotic effects
Aerosol — Aerosols
Flam. Liq. — Flammable liquid

Any abbreviations and acronyms used in this document:
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC</td>
<td>lethal concentration</td>
</tr>
<tr>
<td>LC50</td>
<td>lethal concentration 50 percent kill</td>
</tr>
<tr>
<td>LCLo</td>
<td>lowest published lethal concentration</td>
</tr>
<tr>
<td>LD</td>
<td>Lethal Dose of a chemical</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50% kill</td>
</tr>
<tr>
<td>LDo</td>
<td>Lethal Dose Low</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>LOEC</td>
<td>Lowest Observed Effect Concentration</td>
</tr>
<tr>
<td>LOEL</td>
<td>Lowest Observed Effect Level</td>
</tr>
<tr>
<td>LQ</td>
<td>Limited Quantities</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Marine Pollution from Ships</td>
</tr>
<tr>
<td>n.a.</td>
<td>not applicable</td>
</tr>
<tr>
<td>n.av.</td>
<td>not available</td>
</tr>
<tr>
<td>n.c.</td>
<td>not checked</td>
</tr>
<tr>
<td>n.d.a.</td>
<td>no data available</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute of Occupational Safety and Health (United States of America)</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No Observed Adverse Effective Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>NOEL</td>
<td>No Observed Effect Level</td>
</tr>
<tr>
<td>ODP</td>
<td>Ozone Depletion Potential</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>org.</td>
<td>organic</td>
</tr>
<tr>
<td>PAH</td>
<td>polycyclic aromatic hydrocarbon</td>
</tr>
<tr>
<td>PBT</td>
<td>persistent, bioaccumulative and toxic</td>
</tr>
<tr>
<td>PC</td>
<td>Chemical product category</td>
</tr>
<tr>
<td>PE</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No Effect Concentration</td>
</tr>
<tr>
<td>POCP</td>
<td>Photochemical ozone creation potential</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>PROC</td>
<td>Process category</td>
</tr>
<tr>
<td>PTFE</td>
<td>Polytetrafluoroethylene</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)</td>
</tr>
<tr>
<td>REACH-IT List-No.</td>
<td>9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)</td>
</tr>
<tr>
<td>SADT</td>
<td>Self-Accelerating Decomposition Temperature</td>
</tr>
<tr>
<td>SAR</td>
<td>Structure Activity Relationship</td>
</tr>
<tr>
<td>SU</td>
<td>Sector of use</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substances of Very High Concern</td>
</tr>
<tr>
<td>Tel.</td>
<td>Telephone</td>
</tr>
<tr>
<td>ThOD</td>
<td>Theoretical oxygen demand</td>
</tr>
<tr>
<td>TOC</td>
<td>Total organic carbon</td>
</tr>
<tr>
<td>TRGS</td>
<td>Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)</td>
</tr>
<tr>
<td>UN RTDG</td>
<td>United Nations Recommendations on the Transport of Dangerous Goods</td>
</tr>
<tr>
<td>Vbf</td>
<td>Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile organic compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>very persistent and very bioaccumulative</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
<tr>
<td>wwt</td>
<td>wet weight</td>
</tr>
</tbody>
</table>

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by: