Safety data sheet  
according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Toko Express Aerosol

5509256 Express Maxi 200ml JAP  
5509264 Express Maxi 200ml  
5509266 Grip&Glide 200ml

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)
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 22.02.2019 / 0006
Replacing version dated / version: 09.02.2018 / 0005
Valid from: 22.02.2019
PDF print date: 25.03.2019

Toko Express Aerosol

<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>
<tr>
<td>STOT SE</td>
<td>3</td>
<td>H336-May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>Aerosol</td>
<td>1</td>
<td>H222-Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Aerosol</td>
<td>1</td>
<td>H229-Pressurised container: May burst if heated.</td>
</tr>
</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number (REACH)</td>
</tr>
<tr>
<td>Index</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
</tr>
<tr>
<td>CAS</td>
</tr>
<tr>
<td>content</td>
</tr>
</tbody>
</table>
**Safety data sheet according to Regulation (EC) No 1907/2006, Annex II**

**Revision date / version:** 22.02.2019  / 0006

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**PDF print date:** 25.03.2019

**Toko Express Aerosol**

<table>
<thead>
<tr>
<th>Carbon dioxide</th>
<th>Substance for which an EU exposure limit value applies.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number (REACH)</td>
<td>---</td>
</tr>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>204-696-9</td>
</tr>
<tr>
<td>CAS</td>
<td>124-38-9</td>
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<tr>
<td>content %</td>
<td>1-5</td>
</tr>
<tr>
<td>Classification according to Regulation (EC) 1272/2008 (CLP)</td>
<td>---</td>
</tr>
</tbody>
</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!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

**SECTION 4: First aid measures**

**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.

**SECTION 5: Firefighting measures**

**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.
- Cool container at risk with water.
- Dispose of contaminated extinction water according to official regulations.

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.

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

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Propan-2-ol</th>
<th>Content %: 80-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 400 ppm (999 mg/m³)</td>
<td>WEL-STE: 500 ppm (1250 mg/m³)</td>
<td>---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-122 SA(C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-150 U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Draeger - Alcohol 25/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Propanol (81 01 631)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 1998, 2002 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Draeger - Alcohol 100/a  (CH 29 701)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMGV: ---</td>
<td>Other information: ---</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carbon dioxide</th>
<th>Content %: 1-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 5000 ppm (9150 mg/m³) (WEL), 5000 ppm (9000 mg/m³) (EU)</td>
<td>WEL-STE: 15000 ppm (27400 mg/m³) (WEL)</td>
<td>---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-126 B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-126 SA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-126 SB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-126 SF</td>
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<td></td>
</tr>
<tr>
<td>- Compur - KITA-126 SG</td>
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</tr>
<tr>
<td>- Compur - KITA-126 SH</td>
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</tr>
<tr>
<td>- Compur - KITA-126 UH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Draeger - Carbon Dioxide 100/a (81 01 811)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Draeger - Carbon Dioxide 0.1%/a (CH 23 501)</td>
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<tr>
<td>- Draeger - Carbon Dioxide 0.5%/a (CH 31 401)</td>
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</tr>
<tr>
<td>- Draeger - Carbon Dioxide 1%/a (CH 25 101)</td>
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</tr>
<tr>
<td>- Draeger - Carbon Dioxide 5%/A (CH 20 301)</td>
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</tr>
<tr>
<td>- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- NIOSH 6663 (Carbon dioxide) - 1994</td>
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<tr>
<td>BMGV: ---</td>
<td>Other information: ---</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Paraffin wax, fume</th>
<th>Content %:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 2 mg/m³</td>
<td>WEL-STE: 6 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>BMGV:</td>
<td>Other information: ---</td>
</tr>
</tbody>
</table>

### 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>
<td>140.9</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>140.9</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>552</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>552</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td>28</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>2251</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Safety data sheet according to Regulation (EC) No 1907/2006, Annex II**

**Revision date / version: 22.02.2019 / 0006**

**Replacing version dated / version: 09.02.2018 / 0005**

**Valid from: 22.02.2019**

**Toko Express Aerosol**

| Environment - water, sporadic (intermittent) release | PNEC | Consumer | Human - dermal | Long term | DNEL | 319 mg/kg | (1 d) |
| Environment - water, sporadic (intermittent) release | PNEC | Consumer | Human - inhalation | Long term | DNEL | 89 mg/m³ |
| Environment - water, sporadic (intermittent) release | PNEC | Consumer | Human - oral | Long term | DNEL | 26 mg/kg | (1 d) |
| Environment - water, sporadic (intermittent) release | PNEC | Workers / employees | Human - dermal | Long term | DNEL | 888 mg/kg | (1 d) |
| Environment - water, sporadic (intermittent) release | PNEC | Workers / employees | Human - inhalation | Long term | DNEL | 500 mg/m³ |

---

**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. Applies only if maximum permissible exposure values are listed here.

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:

>= 0,35

Permeation time (penetration time) in minutes:

>= 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
No information available at present.

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
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
Explosive properties: Product is not explosive. When using: development of explosive vapour/air mixture possible.

9.2 Other information
Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

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
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>
</tr>
<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>
<td></td>
</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 Dermal Irritation/Corrosion)</td>
<td>Not irritant</td>
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<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 405 (Acute Eye Irritation/Corrosion)</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td>Guinea pig</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitising</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td>Salmonella typhimurium (Ames-Test)</td>
<td>Classification according to calculation procedure.</td>
<td></td>
</tr>
</tbody>
</table>

Propan-2-ol

<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>
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<tbody>
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<td>LD50</td>
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</tr>
<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>
<td></td>
</tr>
<tr>
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<td>LC50</td>
<td>30</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 404 (Acute Dermal Irritation/Corrosion)</td>
<td>Not irritant</td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
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<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 405 (Acute Eye Irritation/Corrosion)</td>
<td>Eye Irrit. 2</td>
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<td></td>
<td>Guinea pig</td>
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<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td>Salmonella typhimurium (Ames-Test)</td>
<td>Classification according to calculation procedure.</td>
<td></td>
</tr>
</tbody>
</table>
Carcinogenicity: Negative
Reproductive toxicity: Negative
Specific target organ toxicity - repeated exposure (STOT-RE): Target organ(s): liver
Aspiration hazard: No
Symptoms: breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea

Specific target organ toxicity - repeated exposure (STOT-RE), oral: NOAEL 900 mg/kg Rat OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

### SECTION 12: Ecological information

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

<table>
<thead>
<tr>
<th>Toko Express Aerosol</th>
<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>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. toxicity to daphnia:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. toxicity to algae:</td>
<td>n.d.a.</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>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.6. Other adverse effects:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<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>Leuciscus idus</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;100</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. toxicity to daphnia:</td>
<td>Daphnia magna</td>
<td>EC50</td>
<td>48h</td>
<td>2285</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. toxicity to algae:</td>
<td>Desmodesmus subspicatus</td>
<td>EC50</td>
<td>72h</td>
<td>&gt;100</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)</td>
<td>21d</td>
<td>95</td>
<td>%</td>
<td></td>
<td></td>
<td>Readily biodegradable</td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)</td>
<td>99,9</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td>Readily biodegradable</td>
<td></td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td></td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

| No PBT substance, No vPvB substance |

12.4. Mobility in soil:

<table>
<thead>
<tr>
<th>Koc</th>
<th>1.1</th>
</tr>
</thead>
</table>

Toxicity to bacteria: EC50 >1000 mg/l activated sludge

Other information:

<table>
<thead>
<tr>
<th>THOD</th>
<th>2.4 g/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD5</td>
<td>53 %</td>
</tr>
<tr>
<td>COD</td>
<td>96 %</td>
</tr>
<tr>
<td>COD</td>
<td>2.4 g/g</td>
</tr>
<tr>
<td>BOD</td>
<td>1171 mg/g</td>
</tr>
</tbody>
</table>

Other information:

<table>
<thead>
<tr>
<th>ThOD</th>
<th>2.4 g/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD</td>
<td>1.171 mg/g</td>
</tr>
</tbody>
</table>

Other information:

<table>
<thead>
<tr>
<th>BOD</th>
<th>1.171 mg/g</th>
</tr>
</thead>
</table>

References

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.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: 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
## 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.):

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Notes to Annex I</th>
<th>Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements</th>
<th>Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3a</td>
<td>11.1</td>
<td>150 (netto)</td>
<td>500 (netto)</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): 93,12 %

### 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>
</tbody>
</table>
Aerosol 1, H229

Classification based on test data.

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:

AC Article Categories
acc., acc. to according, according to
ACGIHA American Conference of Governmental Industrial Hygienists
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
BMGV Biological monitoring guidance value (EH40, UK)
BOD Biochemical oxygen demand
BSEF Bromine Science and Environmental Forum
bw body weight
CAS Chemical Abstracts Service
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
CIPAC Collaborative International Pesticides Analytical Council
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
COD Chemical oxygen demand
CTFA Cosmetic, Toiletry, and Fragrance Association
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
DT50 Dwell Time - 50% reduction of start concentration
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
ECC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
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:

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