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 Performance Liquid Paraffin

5502041 High Performance Liquid Paraffin yellow 125ml
5502042 High Performance Liquid Paraffin red 125ml
5502043 High Performance Liquid Paraffin blue 125ml
5502044 Base Performance Liquid Paraffin yellow 100ml
5502045 Base Performance Liquid Paraffin red 100ml
5502046 Base Performance Liquid Paraffin blue 100ml

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
Classified 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>
<tr>
<td>Asp. Tox.</td>
<td>1</td>
<td>H304-May be fatal if swallowed and enters airways.</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.

Propan-2-ol
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

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

3.1 Substance
n.a.

3.2 Mixture

| Propan-2-ol |
| Registration number (REACH) | 01-2119457558-25-XXXX |
| Index | 603-117-00-0 |
EINECS, ELINCS, NLP: 200-661-7
CAS: 67-63-0
content %: 20-30

Classification according to Regulation (EC) 1272/2008 (CLP):
- Flam. Liq. 2, H225
- Eye Irrit. 2, H319
- STOT SE 3, H336

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:
Registration number (REACH): 01-2119471843-32-XXXX
Index: ---
EINECS, ELINCS, NLP: 927-241-2 (REACH-IT List-No.)
CAS: ---
content %: 10-20
Classification according to Regulation (EC) 1272/2008 (CLP):
- Flam. Liq. 3, H226
- Asp. Tox. 1, H304
- STOT SE 3, H336
- Aquatic Chronic 3, H412

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
Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur:
- Irritation of the respiratory tract
- Coughing
- Headaches
- Dizziness
- Effects/damages the central nervous system
Coordination disorders
Mental confusion
Ingestion:
Nausea
Vomiting
Danger of aspiration.
Oedema of the lungs
Chemical pneumonitis (condition similar to pneumonia)

4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.
Gastric lavage (stomach washing) only under endotracheal intubation.
Subsequent observation for pneumonia and pulmonary oedema.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep unprotected persons away.
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
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Fill the absorbed material into lockable containers.

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.

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

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
800 mg/m³

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Propan-2-ol</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 400 ppm (999 mg/m³)</td>
<td>WEL-STE: 500 ppm (1250 mg/m³)</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-122 SA(C) (549 277)</td>
<td></td>
</tr>
<tr>
<td>- Compur - KITA-150 U (550 362)</td>
<td></td>
</tr>
<tr>
<td>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</td>
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</tr>
<tr>
<td>- DFG (D) (Losungsmittelgemische), DFG (E) (Solvent mixtures 6) - 1998, 2002 -</td>
<td></td>
</tr>
<tr>
<td>- Draeger - Alcohol 100/a (CH 29 701)</td>
<td></td>
</tr>
<tr>
<td>BMGV: ---</td>
<td></td>
</tr>
<tr>
<td>Other information: ---</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 800 mg/m³</td>
<td>WEL-STE: ---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>---</td>
</tr>
<tr>
<td>- Draeger - Hydrocarbons 2/a (81 03 581)</td>
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</tr>
<tr>
<td>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</td>
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<tr>
<td>- Compur - KITA-187 S (551 174)</td>
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<tr>
<td>BMGV: ---</td>
<td>---</td>
</tr>
<tr>
<td>Other information: (OEL acc. to RCP- method, paragraphs 84-87, EH40)</td>
<td>---</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Dimethoxymethane</th>
<th>Content %:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA: 1000 ppm (3160 mg/m³)</td>
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</tr>
<tr>
<td>Monitoring procedures:</td>
<td>---</td>
</tr>
<tr>
<td>BMGV:</td>
<td>---</td>
</tr>
<tr>
<td>Other information:</td>
<td>---</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></td>
<td></td>
<td>PNEC</td>
<td>140.9</td>
<td>mg/l</td>
<td></td>
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<tr>
<td>Environment - marine</td>
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<td></td>
<td>PNEC</td>
<td>140.9</td>
<td>mg/l</td>
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<td></td>
<td>PNEC</td>
<td>552</td>
<td>mg/kg</td>
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<tr>
<td>Environment - sediment, marine</td>
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<td></td>
<td>PNEC</td>
<td>552</td>
<td>mg/kg</td>
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<tr>
<td>Environment - soil</td>
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<td></td>
<td>PNEC</td>
<td>28</td>
<td>mg/kg</td>
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<tr>
<td>Environment - sewage treatment plant</td>
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<td>PNEC</td>
<td>2251</td>
<td>mg/l</td>
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<tr>
<td>Environment - water, sporadic (intermittent) release</td>
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<td>PNEC</td>
<td>140.9</td>
<td>mg/l</td>
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<tr>
<td>Environment - oral (animal feed)</td>
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<td>PNEC</td>
<td>160</td>
<td>mg/kg</td>
<td>feed</td>
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</tbody>
</table>

Consumer
- Human - dermal Long term DNEL 319 mg/kg (1 d)
- Human - inhalation Long term DNEL 89 mg/m³

Workers / employees
- Human - dermal Long term DNEL 888 mg/kg (1 d)
- Human - inhalation Long term DNEL 500 mg/m³

### Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
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<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer</td>
<td>Human - dermal Long term systemic effects DNEL 300 mg/kg bw/d</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - inhalation Long term systemic effects DNEL 900 mg/m³</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>Consumer</td>
<td>Human - oral Long term systemic effects DNEL 300 mg/kg bw/day</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal Long term systemic effects DNEL 300 mg/kg bw/d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - inhalation Long term systemic effects DNEL 1500 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimethoxymethane

<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 - water</td>
<td></td>
<td></td>
<td>PNEC</td>
<td>14,577</td>
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<tr>
<td>Environment - sediment, marine</td>
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<td></td>
<td>PNEC</td>
<td>1,4577</td>
<td>mg/l</td>
<td></td>
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<tr>
<td>Environment - sediment, freshwater</td>
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<td>PNEC</td>
<td>13,135</td>
<td>mg/kg dry weight</td>
<td></td>
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<tr>
<td>Environment - sediment, marine</td>
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<td></td>
<td>PNEC</td>
<td>1,3135</td>
<td>mg/kg dry weight</td>
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</tr>
<tr>
<td>Environment - soil</td>
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<td></td>
<td>PNEC</td>
<td>4,6538</td>
<td>mg/kg dry weight</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. 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:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

> = 0,5

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:
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. 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
Physical state: Liquid
The propellant is not released when used in accordance with the regulations.
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point: Not determined
Evaporation rate: Not determined
Flammability (solid, gas): n.a.
Lower explosive limit: Not determined
Upper explosive limit: Not determined
Vapour pressure: Not determined
Vapour density (air = 1): Not determined
Density: 0,808 g/ml (relative density )
Bulk density: n.a.
Solubility(ies): Not determined
Water solubility: Insoluble
Partition coefficient (n-octanol/water): Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: <=20,5 mm2/s (40°C)
Explosive properties: Product is not explosive. When using: development of explosive vapour/air mixture possible.
Oxidising properties: No

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
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
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>
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</thead>
<tbody>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td></td>
<td></td>
<td></td>
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<td>n.d.a.</td>
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<tr>
<td>Acute toxicity, by inhalation:</td>
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<td></td>
<td></td>
<td>n.d.a.</td>
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<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>n.d.a.</td>
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<tr>
<td>Respiratory or skin sensitisation:</td>
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<td>n.d.a.</td>
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<td>Germ cell mutagenicity:</td>
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<td>Carcinogenicity:</td>
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<td>Aspiration hazard:</td>
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<td>n.d.a.</td>
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<td>Symptoms:</td>
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<td></td>
<td>n.d.a.</td>
</tr>
</tbody>
</table>

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<thead>
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<th>Toxicity / effect</th>
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<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>
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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>
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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 Dermal Irritation/Corrosion)</td>
<td>Not irritant</td>
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<tr>
<td>Skin corrosion/irritation:</td>
<td>Rabbit</td>
<td>0</td>
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<td>Rabbit</td>
<td>OECD 405 (Acute Eye Irritation/Corrosion)</td>
<td>Eye Irrit. 2</td>
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<tr>
<td>Respiratory or skin sensitisation:</td>
<td>Guinea pig</td>
<td>0</td>
<td></td>
<td></td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitising</td>
</tr>
</tbody>
</table>
Germ cell mutagenicity: Salmonella typhimurium OECD 471 (Bacterial Reverse Mutation Test) Negative

Germ cell mutagenicity: Salmonella typhimurium (Ames-Test) Negative

Germ cell mutagenicity: Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative

Carcinogenicity: Negative

Reproductive toxicity: Negative

Specific target organ toxicity - single exposure (STOT-SE): May cause drowsiness or dizziness.

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)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

<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: LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route: LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation: LC50</td>
<td>&gt;4951</td>
<td>mg/m3/4 h</td>
<td>Rat</td>
<td>OECD 403 (Acute Inhalation Toxicity)</td>
<td>Analogous conclusion, Maximum achievable concentration.</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 404 (Acute Dermal Irritation/Corrosion)</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 405 (Acute Eye Irritation/Corrosion)</td>
<td>Mild irritant (Analogous conclusion)</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td>Guinea pig</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitising</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td>Salmonella typhimurium</td>
<td>OECD 471 (Bacterial Reverse Mutation Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td>OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)</td>
<td>No indications of such an effect.</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td></td>
<td></td>
<td></td>
<td>OECD 414 (Prenatal Developmental Toxicity Study)</td>
<td>No indications of such an effect.</td>
<td></td>
</tr>
</tbody>
</table>
Specific target organ toxicity - single exposure (STOT-SE):

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure (STOT-RE):

OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) No indications of such an effect.

Aspiration hazard: Yes

Symptoms: drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

### Dimethoxymethane

<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>6423</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>57</td>
<td>mg/l</td>
<td>Mouse</td>
<td>OECD 403 (Acute Inhalation Toxicity)</td>
<td>Vapours</td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LOAEL</td>
<td>1000</td>
<td>mg/l/6h</td>
<td>Rat</td>
<td>Vapours</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>NOAEL</td>
<td>2000</td>
<td>mg/l/6h</td>
<td>Rat</td>
<td>Vapours</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not irritant</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not irritant</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not sensitising</td>
</tr>
<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>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>acidosis, respiratory distress, drowsiness, unconsciousness, diarrhoea, coughing, headaches, drowsiness, mucous membrane irritation, nausea and vomiting.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).
### Toko Performance Liquid Paraffin

<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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>12.3. Bioaccumulative potential:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.4. Mobility in soil:</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></td>
</tr>
<tr>
<td>Other adverse effects:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other information:**

#### DOC-elimination degree (complex organic substance) >= 80%/28d: n.a.

### Propan-2-ol

<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></td>
<td></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 fish:</td>
<td>LC50</td>
<td>96h</td>
<td>1400</td>
<td>mg/l</td>
<td>Lepomis macrochirus</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>
</tbody>
</table>

**Other information:**

#### Log Pow: 0.05

**Toxicity to bacteria:**

**Other information:**

#### COD: 96 %

**References**

#### BOD: 1171 mg/g

### Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
### Toxicity / effect

<table>
<thead>
<tr>
<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LL50</td>
<td>96h</td>
<td>&gt;10-&lt;30</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOEC/NOEL</td>
<td>28d</td>
<td>0,182</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOEC/NOEL</td>
<td>21d</td>
<td>0,317</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
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</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL50</td>
<td>48h</td>
<td>&gt;22-&lt;46</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOELR</td>
<td>72h</td>
<td>&lt;1</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28d</td>
<td>89</td>
<td>%</td>
<td></td>
<td></td>
<td>OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)</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>
</tr>
<tr>
<td>ThOD</td>
<td>28d</td>
<td>53-55</td>
<td>%</td>
<td></td>
<td>Biodegradable</td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td></td>
<td>4-5,7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL50</td>
<td></td>
<td>&gt;1000</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</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>No PBT substance, No vPvB substance</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toxicity to bacteria:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td></td>
<td>&gt;1000</td>
<td>mg/l</td>
<td></td>
<td>Does not contain any organically bound halogens which can contribute to the AOX value in waste water.</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AOX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water solubility:** ~ 0.04 g/l

**Dimethoxymethane**

<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>6990</td>
<td>mg/l</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>&gt;500</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC10</td>
<td>96h</td>
<td>&gt;500</td>
<td>mg/l</td>
<td>Scenedesmus subspicatus</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water solubility:** ~ 0.04 g/l

**Dimethoxymethane**

**Organism:** Pimephales promelas, Daphnia magna, and Scenedesmus subspicatus are the tested organisms for the toxicity endpoints specified.
12.2. Persistence and degradability: >80 %

12.3. Bioaccumulative potential: Log Pow 0

Toxicity to bacteria: EC10 17h 3000 mg/l Pseudomonas putida

Water solubility: 32.3 %

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: UN 1950 AEROSOLS
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.

Transport by sea (IMDG-code)
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
14.5. Environmental hazards: Not applicable

Transport by air (IATA)
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
14.5. Environmental hazards: Not applicable
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.):

<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>130 (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): ~ 95 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections: 8

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>Asp. Tox. 1, H304</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 according to calculation procedure.</td>
</tr>
<tr>
<td>Aerosol 1, H229</td>
<td>Classification based on the form or physical state.</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.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
Toko Performance Liquid Paraffin

H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation
Asp. Tox. — Aspiration hazard
STOT SE — Specific target organ toxicity - single exposure - narcotic effects
Aerosol — Aerosols
Flam. Liq. — Flammable liquid
Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
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)
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEC 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)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
OECD Organisation for Economic Co-operation and Development
org. organic
PBT persistent, bioaccumulative and toxic
**Toko Performance Liquid Paraffin**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>PE</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No Effect Concentration</td>
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<tr>
<td>ppm</td>
<td>parts per million</td>
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<tr>
<td>PVC</td>
<td>Polyvinylchloride</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</td>
<td>List-No. 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>
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<tr>
<td>SVHC</td>
<td>Substances of Very High Concern</td>
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<tr>
<td>Tel.</td>
<td>Telephone</td>
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<tr>
<td>UN RTDG</td>
<td>United Nations Recommendations on the Transport of Dangerous Goods</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile organic compounds</td>
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<tr>
<td>vPvB</td>
<td>very persistent and very bioaccumulative</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:

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