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

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

Lubricant

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 - Roller application or brushing

PROC11 - Non industrial spraying

PROC13 - Treatment of articles by dipping and pouring

PROC17 - Lubrication at high energy conditions in metal working operation

PROC18 - General greasing/lubrication at high kinetic energy conditions

PROC19 - Manual activities involving hand contact

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 2 - Formulation into mixture

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8c - Widespread use leading to inclusion into/onto article (indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

#### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH

Jerg-Wieland-Str. 4

89081 Ulm-Lehr

Tel.: (+49) 0731-1420-0

Fax: (+49) 0731-1420-88

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

#### 1.4 Emergency telephone number

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### Emergency information services / official advisory body:

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### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

| Hazard class    | Hazard category | Hazard statement  |
|-----------------|-----------------|---|
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.      |
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |
| 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

H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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.

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.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

Pentane

Isoalkanes (C9 - C12)

### 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 (&lt; 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 (&lt; 0,1 %).

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substances

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n.a.  
**3.2 Mixtures**

|   |  |
|---|--|
| <b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b> |  |
| <b>Registration number (REACH)</b>  | ---  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                   | 919-164-8                                    |
| <b>CAS</b>  | (64742-82-1)                                 |
| <b>content %</b>  | 10-20  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>   | Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |

|   |   |
|---|---|
| <b>Pentane</b>  | <b>Substance for which an EU exposure limit value applies.</b>                        |
| <b>Registration number (REACH)</b>  | ---   |
| <b>Index</b>  | 601-006-00-1  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-692-4   |
| <b>CAS</b>  | 109-66-0  |
| <b>content %</b>  | 1-10  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Aquatic Chronic 2, H411<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Flam. Liq. 2, H225 |

|   |  |
|---|--|
| <b>Dimethyl ether</b>   | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>  | 01-2119472128-37-XXXX  |
| <b>Index</b>  | 603-019-00-8   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 204-065-8  |
| <b>CAS</b>  | 115-10-6   |
| <b>content %</b>  | 1-10   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Gas 1A, H220   |

|   |  |
|---|--|
| <b>Isoalkanes (C9 - C12)</b>  |  |
| <b>Registration number (REACH)</b>  | ---  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 292-459-0  |
| <b>CAS</b>  | 90622-57-4   |
| <b>content %</b>  | 1-10   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Aquatic Chronic 4, H413<br>Asp. Tox. 1, H304<br>Flam. Liq. 3, H226 |

|   |  |
|---|--|
| <b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>   |  |
| <b>Registration number (REACH)</b>  | ---  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 921-024-6  |
| <b>CAS</b>  | ---  |
| <b>content %</b>  | 1-<10  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411 |

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!

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### **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.

Respiratory arrest - Artificial respiration apparatus necessary.

### **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.

Consult medical specialist.

### **Ingestion**

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

Immediate admittance to a hospital.

## **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 eyes

with long-term contact:

Drying of the skin.

Dermatitis (skin inflammation)

Irritation of the skin.

At high concentrations:

Irritation of the respiratory tract

Coughing

Dizziness

Headaches

Effect on the central nervous system

Coordination disorders

Unconsciousness

Ingestion of large quantities:

Headaches

Nausea

Vomiting

Danger of aspiration.

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

## **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**

CO<sub>2</sub>

Dry extinguisher

Water jet spray

#### **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 pyrolysis products.

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

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Dangerous vapours heavier than air.  
In case of spreading near the ground, flashback to distance sources of ignition is possible.

### **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**

Remove possible causes of ignition - do not smoke.  
Ensure sufficient supply of air.  
Avoid 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.  
Do not use the product in enclosed spaces.  
Keep away from sources of ignition - Do not smoke.  
Do not use on hot surfaces.  
Avoid contact with eyes or skin.  
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.  
Store product closed and only in original packing.  
Not to be stored in gangways or stair wells.  
Do not store with oxidizing agents.  
Observe special regulations for aerosols!  
Observe special storage conditions.  
Keep protected from direct sunlight and temperatures over 50°C.  
Store in a well ventilated place.

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

No information available at present.

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## 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/m<sup>3</sup>

|                        |  |                    |  |
|------------------------|--|--------------------|--|
| <b>Chemical Name</b>   | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)   | Content %:         | 10-20  |
| WEL-TWA:               | 1000 mg/m <sup>3</sup>   | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>   |                    |  |
| BMGV:                  | ---  | Other information: | (OEL acc. to RCP-method, paragraphs 84-87, EH40) |
| <b>Chemical Name</b>   | Pentane  | Content %:         | 1-10   |
| WEL-TWA:               | 1800 mg/m <sup>3</sup> (600 ppm) (WEL), 3000 mg/m <sup>3</sup> (1000 ppm) (EU)   | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Pentane 100/a (67 24 701)</li> <li>- Compur - KITA-113 SB(C) (549 368)</li> <li>- DFG (D) (Loesungsmittelgemische Meth. Nr. 1), DFG (E) (Solvent mixtures 1) - 1998, 2002</li> <li>- NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> </ul> |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Dimethyl ether   | Content %:         | 1-10   |
| WEL-TWA:               | 400 ppm (766 mg/m <sup>3</sup> ) (WEL), 1000 ppm (1920 mg/m <sup>3</sup> ) (EU)  | WEL-STEL:          | 500 ppm (958 mg/m <sup>3</sup> ) (WEL)           |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-123 S (549 129)</li> </ul>  |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Isoalkanes (C9 - C12)  | Content %:         | 1-10   |
| WEL-TWA:               | 1200 mg/m <sup>3</sup> (>=C7 normal and branched chain alkanes)  | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>   |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  | Content %:         | 1-<10  |
| WEL-TWA:               | 600 mg/m <sup>3</sup>  | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-187 S (551 174)</li> </ul>  |                    |  |
| BMGV:                  | ---  | Other information: | (OEL acc. to RCP-method, paragraphs 84-87, EH40) |
| <b>Chemical Name</b>   | Propane  | Content %:         |  |
| WEL-TWA:               | 1000 ppm (ACGIH)   | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-125 SA (549 954)</li> <li>- OSHA PV2077 (Propane) - 1990</li> </ul>   |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Butane   | Content %:         |  |
| WEL-TWA:               | 600 ppm (1450 mg/m <sup>3</sup> )  | WEL-STEL:          | 750 ppm (1810 mg/m <sup>3</sup> )                |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-221 SA (549 459)</li> <li>- OSHA PV2010 (n-Butane) - 1993</li> </ul>  |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Isobutane  | Content %:         |  |
| WEL-TWA:               | 1000 ppm (EX) (ACGIH)  | WEL-STEL:          | ---  |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-113 SB(C) (549 368)</li> </ul>  |                    |  |
| BMGV:                  | ---  | Other information: | ---  |
| <b>Chemical Name</b>   | Oil mist, mineral  | Content %:         |  |

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|---|------------------------|-----|
| WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: ---          | --- |
| Monitoring procedures: - Draeger - Oil Mist 1/a (67 33 031)           |                        |     |
| BMGV: ---   | Other information: --- |     |

|                            |                        |            |
|----------------------------|------------------------|------------|
| <b>Chemical Name</b>       | Paraffin wax, fume     | Content %: |
| WEL-TWA: 2 mg/m3           | WEL-STEL: 6 mg/m3      | ---        |
| Monitoring procedures: --- |                        |            |
| BMGV: ---                  | Other information: --- |            |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |  |                             |            |       |       |      |
|--|--|-----------------------------|------------|-------|-------|------|
| Area of application  | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit  | Note |
| Consumer   | Human - oral                               | Long term, systemic effects | DNEL       | 26    | mg/kg |      |
| Consumer   | Human - dermal                             | Long term, systemic effects | DNEL       | 26    | mg/kg |      |
| Consumer   | Human - inhalation                         | Long term, systemic effects | DNEL       | 71    | mg/m3 |      |
| Workers / employees  | Human - dermal                             | Long term, systemic effects | DNEL       | 44    | mg/kg |      |
| Workers / employees  | Human - inhalation                         | Long term, systemic effects | DNEL       | 330   | mg/m3 |      |

| Pentane             |  |                             |            |       |            |      |
|---------------------|--|-----------------------------|------------|-------|------------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value | Unit       | Note |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 880   | µg/l       |      |
|                     | Environment - freshwater                             |                             | PNEC       | 230   | µg/l       |      |
|                     | Environment - marine                                 |                             | PNEC       | 230   | µg/l       |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 3600  | µg/l       |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 1,2   | mg/kg dw   |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 1,2   | mg/kg dw   |      |
|                     | Environment - soil                                   |                             | PNEC       | 0,55  | mg/kg dw   |      |
| Consumer            | Human - oral   | Long term, systemic effects | DNEL       | 214   | mg/kg bw/d |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 214   | mg/kg bw/d |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 643   | mg/m3      |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 3000  | mg/m3      |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 432   | mg/kg bw/d |      |

| Dimethyl ether      |  |                  |            |       |       |      |
|---------------------|--|------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit  | Note |
|                     | Environment - freshwater                   |                  | PNEC       | 0,155 | mg/l  |      |
|                     | Environment - sediment, freshwater         |                  | PNEC       | 0,681 | mg/kg |      |
|                     | Environment - soil                         |                  | PNEC       | 0,045 | mg/kg |      |

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|                     |  |                             |      |       |       |  |
|---------------------|--|-----------------------------|------|-------|-------|--|
|                     | Environment - sewage treatment plant                 |                             | PNEC | 160   | mg/l  |  |
|                     | Environment - marine                                 |                             | PNEC | 0,016 | mg/l  |  |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC | 1,549 | mg/l  |  |
|                     | Environment - sediment, marine                       |                             | PNEC | 0,069 | mg/kg |  |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL | 471   | mg/m3 |  |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL | 1894  | mg/m3 |  |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |  |                             |            |       |              |      |
|---|--|-----------------------------|------------|-------|--------------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
| Consumer  | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day |      |
| Consumer  | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m3        |      |
| Consumer  | Human - oral                               | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 773   | mg/kg bw/day |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 2035  | mg/m3        |      |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).  
 (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 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. EN 14042.

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:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374).

Permeation time (penetration time) in minutes:

>480

Minimum layer thickness in mm:

0,7

Protective hand cream recommended.

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.

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

In case of emergency:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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

|  |                                    |
|--|------------------------------------|
| Physical state:                          | Aerosol. Active substance: liquid. |
| Colour:                                  | Brown                              |
| 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:                             | n.a.                               |
| Evaporation rate:                        | Not determined                     |
| Flammability (solid, gas):               | Not determined                     |
| Lower explosive limit:                   | 1,4 Vol-%                          |
| Upper explosive limit:                   | 32 Vol-%                           |
| Vapour pressure:                         | 4400 hPa                           |
| Vapour density (air = 1):                | Not determined                     |
| Density:                                 | 0,731 g/ml                         |
| Bulk density:                            | n.a.                               |
| Solubility(ies):                         | Not determined                     |
| Water solubility:                        | Not miscible                       |
| Partition coefficient (n-octanol/water): | Not determined                     |
| Auto-ignition temperature:               | 235 °C (Ignition temperature )     |

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Decomposition temperature: Not determined  
 Viscosity: Not determined  
 Explosive properties: Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.  
 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

Possible build up of explosive/highly flammable vapour/air mixture.

### 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).

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|---|----------|-------|------|----------|-------------|--------|
| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:  |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:  |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:  |          |       |      |          |             | n.d.a. |
| Symptoms:   |          |       |      |          |             | n.d.a. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |          |       |       |          |                                  |       |
|--|----------|-------|-------|----------|----------------------------------|-------|
| Toxicity / effect  | Endpoint | Value | Unit  | Organism | Test method                      | Notes |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity)   |       |
| Acute toxicity, by dermal route:   | LD50     | >2920 | mg/kg | Rabbit   | OECD 402 (Acute Dermal Toxicity) |       |
| Aspiration hazard:   |          |       |       |          |                                  | Yes   |

| Pentane |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|
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| Toxicity / effect                  | Endpoint | Value  | Unit    | Organism | Test method                                | Notes  |
|------------------------------------|----------|--------|---------|----------|--|--|
| Acute toxicity, by oral route:     | LD50     | >16000 | mg/kg   | Rat      |  |  |
| Acute toxicity, by oral route:     | LD50     | 5000   | mg/kg   | Mouse    |  |  |
| Acute toxicity, by dermal route:   | LD50     | >2000  | mg/kg   | Rabbit   |  |  |
| Acute toxicity, by inhalation:     | LC50     | >100   | mg/l/4h | Rat      |  |  |
| Skin corrosion/irritation:         |          |        |         |          |  | Mild irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:     |          |        |         |          |  | Mild irritant  |
| Respiratory or skin sensitisation: |          |        |         |          |  | Not sensitizing  |
| Germ cell mutagenicity:            |          |        |         |          | OECD 471 (Bacterial Reverse Mutation Test) | Negative   |
| Aspiration hazard:                 |          |        |         |          |  | Yes  |
| Symptoms:                          |          |        |         |          |  | drowsiness, vomiting, cramps, drowsiness, mucous membrane irritation |

| Dimethyl ether  |          |       |         |          |   |                   |
|---|----------|-------|---------|----------|---|-------------------|
| Toxicity / effect   | Endpoint | Value | Unit    | Organism | Test method   | Notes             |
| Acute toxicity, by inhalation:                                | LC50     | 164   | mg/l/4h | Rat      |   |                   |
| Skin corrosion/irritation:                                    |          |       |         |          |   | Not irritant      |
| Serious eye damage/irritation:                                |          |       |         |          |   | Not irritant      |
| Respiratory or skin sensitisation:                            |          |       |         |          |   | No (skin contact) |
| Germ cell mutagenicity:                                       |          |       |         |          | OECD 471 (Bacterial Reverse Mutation Test)  | Negative          |
| Germ cell mutagenicity:                                       |          |       |         |          | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)                                    | Negative          |
| Germ cell mutagenicity:                                       |          |       |         |          | OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophila melanogaster) | Negative          |
| Carcinogenicity:  | NOAEC    | 47000 | mg/m3   | Rat      | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)                                | Negative          |
| Reproductive toxicity:  | NOAEL    | 5000  | ppm     | Rat      | OECD 414 (Prenatal Developmental Toxicity Study)  |                   |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC    | 47106 | mg/kg   | Rat      | OECD 452 (Chronic Toxicity Studies)   | Negative(2 a)     |
| Aspiration hazard:  |          |       |         |          |   | No                |

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|-----------|--|--|--|--|--|---|
| Symptoms: |  |  |  |  |  | unconsciousness, headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestinal disturbances, respiratory distress, circulatory collapse |
|-----------|--|--|--|--|--|---|

| Isoalkanes (C9 - C12)            |          |        |         |          |             |   |
|----------------------------------|----------|--------|---------|----------|-------------|---|
| Toxicity / effect                | Endpoint | Value  | Unit    | Organism | Test method | Notes   |
| Acute toxicity, by oral route:   | LD50     | >10000 | mg/kg   | Rat      |             |   |
| Acute toxicity, by dermal route: | LD50     | >3000  | mg/kg   | Rabbit   |             |   |
| Acute toxicity, by inhalation:   | LC50     | >6,6   | mg/l/4h | Rat      |             |   |
| Skin corrosion/irritation:       |          |        |         |          |             | Repeated exposure may cause skin dryness or cracking. |
| Aspiration hazard:               |          |        |         |          |             | Yes   |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |          |       |         |            |  |                                      |
|---|----------|-------|---------|------------|--|--------------------------------------|
| Toxicity / effect   | Endpoint | Value | Unit    | Organism   | Test method                                      | Notes                                |
| Acute toxicity, by oral route:                                    | LD50     | >5000 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                   |                                      |
| Acute toxicity, by dermal route:                                  | LD50     | >2000 | mg/kg   | Rat        | OECD 402 (Acute Dermal Toxicity)                 |                                      |
| Acute toxicity, by inhalation:                                    | LC50     | >20   | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)             |                                      |
| Skin corrosion/irritation:  |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)     | Skin Irrit. 2                        |
| Serious eye damage/irritation:                                    |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)        | Mild irritant (Analogous conclusion) |
| Respiratory or skin sensitisation:                                |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                    | No (skin contact)                    |
| Carcinogenicity:  |          |       |         |            |  | Negative                             |
| Reproductive toxicity:  |          |       |         |            | OECD 414 (Prenatal Developmental Toxicity Study) | Analogous conclusion, Negative       |
| Specific target organ toxicity - single exposure (STOT-SE):       |          |       |         |            |  | STOT SE 3, H336                      |
| Specific target organ toxicity - repeated exposure (STOT-RE):     |          |       |         |            |  | Negative                             |
| Aspiration hazard:  |          |       |         |            |  | Yes                                  |

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|---|--|--|--|--|--|--|
| Symptoms:   |  |  |  |  |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |  |  |  |  |  | Not irritant (respiratory tract).  |

| Propane   |          |        |         |                        |  |  |
|---|----------|--------|---------|------------------------|--|--|
| Toxicity / effect   | Endpoint | Value  | Unit    | Organism               | Test method  | Notes  |
| Acute toxicity, by inhalation:  | LC50     | 658    | mg/l/4h | Rat                    |  |  |
| Acute toxicity, by inhalation:  | LC50     | 260000 | ppmV/4h | Rat                    |  | Gasses, Male, Analogous conclusion   |
| Skin corrosion/irritation:  |          |        |         |                        |  | Not irritant   |
| Serious eye damage/irritation:  |          |        |         |                        |  | Not irritant   |
| Germ cell mutagenicity:   |          |        |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Reproductive toxicity (Developmental toxicity):                         | NOAEC    | 21,641 | mg/l    |                        | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |
| Aspiration hazard:  |          |        |         |                        |  | No   |
| Symptoms:   |          |        |         |                        |  | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL    | 7,214  | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL    | 21,641 | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |

| Butane                         |          |       |         |          |             |       |
|--------------------------------|----------|-------|---------|----------|-------------|-------|
| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50     | 658   | mg/l/4h | Rat      |             |       |



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|--|--|--|--|--|--|--|---|
| 12.2. Persistence and degradability:     |  |  |  |  |  |  | Not biodegradable<br>Isolate as much as possible with an oil separator. |
| 12.3. Bioaccumulative potential:         |  |  |  |  |  |  | n.d.a.  |
| 12.4. Mobility in soil:                  |  |  |  |  |  |  | Product is slightly volatile.   |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | n.d.a.  |
| 12.6. Other adverse effects:             |  |  |  |  |  |  | n.d.a.  |
| Other information:                       |  |  |  |  |  |  | According to the recipe, contains no AOX.                               |

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

| Toxicity / effect                    | Endpoint | Time | Value | Unit | Organism      | Test method | Notes                |
|--------------------------------------|----------|------|-------|------|---------------|-------------|----------------------|
| 12.1. Toxicity to daphnia:           | EL50     | 48h  | 10-22 | mg/l | Daphnia magna |             | Analogous conclusion |
| 12.2. Persistence and degradability: |          | 28d  | 74,7  | %    |               |             |                      |

**Pentane**

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism            | Test method | Notes                               |
|--|----------|------|-------|------|---------------------|-------------|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                     |             | No PBT substance, No vPvB substance |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 9,87  | mg/l | Salmo gairdneri     |             |                                     |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 9,87  | mg/l | Oncorhynchus mykiss |             |                                     |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 9,99  | mg/l | Lepomis macrochirus |             |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | 9,74  | mg/l | Daphnia magna       |             |                                     |
| 12.2. Persistence and degradability:     |          | 8d   | 70    | %    |                     |             |                                     |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 3,39  |      |                     |             | calculated value                    |

**Dimethyl ether**

| Toxicity / effect                        | Endpoint  | Time | Value | Unit      | Organism            | Test method  | Notes   |
|--|-----------|------|-------|-----------|---------------------|--|---|
| 12.1. Toxicity to fish:                  | LC0       | 96h  | 2695  | mg/l      | Pimephales promelas |  |   |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 3082  | mg/l      | Salmo gairdneri     |  |   |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >4,1  | mg/l      | Poecilia reticulata |  |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >4,4  | mg/l      | Daphnia magna       |  |   |
| 12.1. Toxicity to algae:                 | EC50      | 96h  | 154,9 | mg/l      | Chlorella vulgaris  |  |   |
| 12.2. Persistence and degradability:     |           | 28d  | 5     | %         |                     | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable                             |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | -0,07 |           |                     |  | Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7) |
| 12.4. Mobility in soil:                  | H (Henry) |      | 518,6 | Pa*m3/mol |                     |  | No adsorption in soil.                                |
| 12.5. Results of PBT and vPvB assessment |           |      |       |           |                     |  | No PBT substance, No vPvB substance                   |
| Toxicity to bacteria:                    | EC10      |      | >1600 | mg/l      | Pseudomonas putida  |  |   |

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|                    |  |  |       |      |  |  |  |
|--------------------|--|--|-------|------|--|--|--|
| Other information: |  |  |       |      |  |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water.DIN EN 1485 |
| Water solubility:  |  |  | 45,60 | mg/l |  |  | 25°C   |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |           |      |         |      |                                 |  |  |
|---|-----------|------|---------|------|---------------------------------|--|--|
| Toxicity / effect   | Endpoint  | Time | Value   | Unit | Organism                        | Test method  | Notes  |
| 12.3. Bioaccumulative potential:                                  |           |      |         |      |                                 |  | Concentration in organisms possible.                 |
| 12.1. Toxicity to daphnia:  | NOEC/NOEL | 21d  | 0,17    | mg/l | Daphnia magna                   |  |  |
| 12.1. Toxicity to daphnia:  | LOEC/LOEL | 21d  | 0,32    | mg/l | Daphnia magna                   |  |  |
| 12.1. Toxicity to fish:   | NOEC/NOEL | 28d  | 2,045   | mg/l | Oncorhynchus mykiss             |  |  |
| 12.1. Toxicity to fish:   | NOELR     | 28d  | 2,04    | mg/l | Salmo gairdneri                 |  |  |
| 12.1. Toxicity to fish:   | LC50      | 96h  | 11,4    | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |  |
| 12.1. Toxicity to fish:   | LL50      | 96h  | 11,4    | mg/l | Salmo gairdneri                 | OECD 203 (Fish, Acute Toxicity Test)                               |  |
| 12.1. Toxicity to daphnia:  | EC50      | 48h  | 3       | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |  |
| 12.1. Toxicity to daphnia:  | NOELR     | 48h  | 2,1     | mg/l | Daphnia magna                   |  |  |
| 12.1. Toxicity to algae:  | EC50      | 72h  | 30      | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |  |
| 12.2. Persistence and degradability:                              |           | 28d  | 81      | %    | activated sludge                | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable, Analogous conclusion          |
| 12.3. Bioaccumulative potential:                                  | BCF       |      | 242-253 |      |                                 |  |  |
| 12.4. Mobility in soil:   |           |      |         |      |                                 |  | Adsorption in ground., Product is slightly volatile. |
| Other information:  | AOX       |      | 0       | %    |                                 |  |  |

| Propane                                  |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,28  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

| Butane                     |          |      |       |      |          |             |       |
|----------------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect          | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish:    | LC50     | 96h  | 24,11 | mg/l |          | QSAR        |       |
| 12.1. Toxicity to daphnia: | LC50     | 48h  | 14,22 | mg/l |          | QSAR        |       |

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|  |         |  |      |  |  |  |   |
|--|---------|--|------|--|--|--|---|
| 12.3. Bioaccumulative potential:         | Log Pow |  | 2,98 |  |  |  | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |         |  |      |  |  |  | No PBT substance, No vPvB substance   |

| Isobutane                                |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 27,98 | mg/l |          |             |   |
| 12.1. Toxicity to algae:                 | EC50     | 96h  | 7,71  | mg/l |          |             |   |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | Readily biodegradable   |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

## 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)

07 06 99 wastes not otherwise specified

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.

E.g. suitable incineration plant.

Do not dispose of with household waste.

#### For contaminated packing material

Pay attention to local and national official regulations.

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by hazardous substances

Do not perforate, cut up or weld uncleaned container.

## 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



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### 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 national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

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:

| Entry Nr | Dangerous substances   | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|--|------------------|---|---|
| 18       | Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas | 19               | 50  | 200   |

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):

507 g/l

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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## SECTION 16: Other information

Revised sections: 15  
 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):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                              |
|---|---|
| Asp. Tox. 1, H304   | Classification according to calculation procedure.  |
| Aquatic Chronic 3, H412   | Classification according to calculation procedure.  |
| Aerosol 1, H222   | Classification according to calculation procedure.  |
| Aerosol 1, H229   | Classification based on the form or physical state. |

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.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.  
 H220 Extremely flammable gas.  
 H412 Harmful to aquatic life with long lasting effects.  
 H413 May cause long lasting harmful effects to aquatic life.

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

### 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)  
 ATE Acute Toxicity Estimate  
 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

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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  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
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  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
ppm parts per million  
PVC Polyvinylchloride  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT 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.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SVHC Substances of Very High Concern  
Tel. Telephone  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
wwt wet weight

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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