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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 09.10.2019 / 0007  
Replacing version dated / version: 16.08.2018 / 0006  
Valid from: 09.10.2019  
PDF print date: 02.06.2021  
CABLE SLIDE LUBRICANT 400 ML  
Art.: 9030153

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

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

**1.1 Product identifier**

**CABLE SLIDE LUBRICANT 400 ML**  
**Art.: 9030153**

**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 0 - Other  
SU 1 - Agriculture, forestry, fishery  
SU19 - Building and construction work  
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
Chemical product category [PC]:  
PC24 - Lubricants, greases, release products  
Process category [PROC]:  
PROC11 - Non industrial spraying  
**Uses advised against:**  
No information available at present.

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

BTI Befestigungstechnik GmbH & Co. KG  
Salzstr. 51  
74653 Ingelfingen  
Tel.: +49 7940 141 141  
Fax: +49 7940 141 9141  
Email: info@bti.de  
Homepage: www.bti.de

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:**

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

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

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

| Hazard class    | Hazard category | Hazard statement                                      |
|-----------------|-----------------|---|
| Skin Irrit.     | 2               | H315-Causes skin irritation.                          |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.    |
| STOT SE         | 3               | H336-May cause drowsiness or dizziness.               |
| Aquatic Chronic | 2               | H411-Toxic 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

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic 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. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves. P312-Call a POISON CENTRE / doctor if you feel unwell. P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.

Pentane

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

**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 %).

Without adequate ventilation, formation of explosive mixtures may be possible.

Hazardous to drinking water, on escape of even small quantities.

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

Aerosol



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### 3.1 Substances

n.a.

### 3.2 Mixtures

|   |  |
|---|--|
| <b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>                          |  |
| <b>Registration number (REACH)</b>  | ---  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 931-254-9  |
| <b>CAS</b>  | (64742-49-0)   |
| <b>content %</b>  | 20-40  |
| <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 |

|   |   |
|---|---|
| <b>Pentane</b>  | <b>Substance for which an EU exposure limit value applies.</b>                        |
| <b>Registration number (REACH)</b>  | 01-2119459286-30-XXXX   |
| <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>  | 20-40   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411<br>Flam. Liq. 1, H224 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

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

Protective hand cream recommended.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Typically no exposure pathway.



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Rinse the mouth thoroughly with water.  
Do not induce vomiting. Consult doctor immediately.  
Danger of aspiration.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Coordination disorders

Mental confusion

With long-term contact:

Drying of the skin.

Dermatitis (skin inflammation)

Ingestion:

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

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.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO2

Foam

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

Hydrocarbons

Formaldehyde

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

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



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Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

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## **SECTION 6: Accidental release measures**

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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

### **6.2 Environmental precautions**

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

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.

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## **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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.



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Store in a well ventilated place.

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

| Chemical Name                  | Hydrocarbons, C6, isoalkanes, <5% n-hexane   |     | Content %:20-40 |
|--------------------------------|--|-----|-----------------|
| WEL-TWA: 800 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)  |     |                 |

| Chemical Name   | Pentane   |     | Content %:20-40 |
|---|---|-----|-----------------|
| 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) (Lösungsmittelgemische 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: ---  |     |                 |

| Chemical Name                              | 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: ---  |     |            |

| Chemical Name             | 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: ---   |     |            |

| Hydrocarbons, C6, isoalkanes, <5% n-hexane |  |                  |            |       |      |      |
|--|--|------------------|------------|-------|------|------|
| Area of application                        | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|  |  |                  |            |       |      |      |



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|                     |                    |                             |      |       |                   |  |
|---------------------|--------------------|-----------------------------|------|-------|-------------------|--|
| Consumer            | Human - oral       | Long term, systemic effects | DNEL | 1301  | mg/kg bw/day      |  |
| Consumer            | Human - dermal     | Long term, systemic effects | DNEL | 1377  | mg/kg bw/day      |  |
| Consumer            | Human - inhalation | Long term, systemic effects | DNEL | 1131  | mg/m <sup>3</sup> |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 13964 | mg/kg bw/day      |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 5306  | mg/m <sup>3</sup> |  |

| <b>Pentane</b>             |   |                             |                   |              |                   |             |
|----------------------------|---|-----------------------------|-------------------|--------------|-------------------|-------------|
| <b>Area of application</b> | <b>Exposure route / Environmental compartment</b> | <b>Effect on health</b>     | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b>       | <b>Note</b> |
|                            | Environment - water                               |                             | PNEC              | 0,23         | mg/l              |             |
|                            | Environment - sediment                            |                             | PNEC              | 1,2          | mg/kg             |             |
|                            | Environment - soil                                |                             | PNEC              | 0,55         | mg/kg             |             |
|                            | Environment - sewage treatment plant              |                             | DNEL              | 3,6          | mg/l              |             |
|                            | Environment - periodic release                    |                             | PNEC              | 0,88         | mg/l              |             |
| Consumer                   | Human - dermal                                    | Long term, systemic effects | DNEL              | 214          | mg/kg bw/day      |             |
| Consumer                   | Human - inhalation                                | Long term, systemic effects | DNEL              | 643          | mg/m <sup>3</sup> |             |
| Consumer                   | Human - oral                                      | Long term, systemic effects | DNEL              | 214          | mg/kg bw/day      |             |
| Workers / employees        | Human - dermal                                    | Long term, systemic effects | DNEL              | 432          | mg/kg bw/day      |             |
| Workers / employees        | Human - inhalation                                | Long term, systemic effects | DNEL              | 3000         | mg/m <sup>3</sup> |             |



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)



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= 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:

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

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective Neoprene® / polychloroprene gloves (EN 374).

Protective nitrile gloves (EN 374).

Protective Viton® / fluoroelastomer gloves (EN 374).

Minimum layer thickness in mm:

$\geq 0,5$

Permeation time (penetration time) in minutes:

$\geq 480$

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

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





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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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state:                          | Aerosol. Active substance: liquid.  |
| Colour:                                  | Colourless  |
| Odour:                                   | Characteristic  |
| Odour threshold:                         | Not determined  |
| pH-value:                                | Not determined  |
| Melting point/freezing point:            | Not determined  |
| Initial boiling point and boiling range: | -44 °C  |
| Flash point:                             | <0 °C   |
| Evaporation rate:                        | Not determined  |
| Flammability (solid, gas):               | Not determined  |
| Lower explosive limit:                   | 1,1 Vol-%   |
| Upper explosive limit:                   | 10,9 Vol-%  |
| Vapour pressure:                         | 2,8 bar (20°C)  |
| Vapour density (air = 1):                | Not determined  |
| Density:                                 | 0,624 g/cm <sup>3</sup> (20°C)  |
| Bulk density:                            | Not determined  |
| Solubility(ies):                         | Not determined  |
| Water solubility:                        | Not miscible  |
| Partition coefficient (n-octanol/water): | Not determined  |
| Auto-ignition temperature:               | 200 °C (Ignition temperature )  |
| Auto-ignition temperature:               | No  |
| Decomposition temperature:               | Not determined  |
| Viscosity:                               | Not determined  |
| Explosive properties:                    | Possible build up of explosive/highly flammable vapour/air mixture. Product is not explosive. |
| Oxidising properties:                    | Not determined  |
| <b>9.2 Other information</b>             |   |
| Miscibility:                             | Not determined  |
| Fat solubility / solvent:                | Not determined  |
| Conductivity:                            | Not determined  |
| Surface tension:                         | Not determined  |



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Solvents content: 90,4 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

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|---|----------|-------|------|----------|-------------|--------|
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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. |



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|                    |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|
| Symptoms:          |  |  |  |  |  | n.d.a.   |
| Other information: |  |  |  |  |  | Classification according to calculation procedure. |

| Hydrocarbons, C6, isoalkanes, <5% n-hexane |          |        |                   |          |  |  |
|--|----------|--------|-------------------|----------|--|--|
| Toxicity / effect                          | Endpoint | Value  | Unit              | Organism | Test method  | Notes  |
| Acute toxicity, by oral route:             | LD50     | >16750 | mg/kg             | Rat      | OECD 401 (Acute Oral Toxicity)                         |  |
| Acute toxicity, by dermal route:           | LD50     | >3350  | mg/kg             | Rabbit   | OECD 402 (Acute Dermal Toxicity)                       |  |
| Acute toxicity, by inhalation:             | LC50     | 259354 | mg/m <sup>3</sup> | Rat      | OECD 403 (Acute Inhalation Toxicity)                   |  |
| Skin corrosion/irritation:                 |          |        |                   |          |  | Skin Irrit. 2  |
| Respiratory or skin sensitisation:         |          |        |                   | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact)  |
| Aspiration hazard:                         |          |        |                   |          |  | Asp. Tox. 1  |
| Symptoms:                                  |          |        |                   |          |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Pentane                          |          |       |         |          |   |         |
|----------------------------------|----------|-------|---------|----------|---|---------|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method   | Notes   |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |         |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rat      |   |         |
| Acute toxicity, by inhalation:   | LC50     | >25,3 | mg/l/4h | Rat      | OECD 403 (Acute Inhalation Toxicity)                      | Vapours |

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|---|------|----|---------|-----|--|--|
| Acute toxicity, by inhalation:                                | LC50 | >5 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity)                     | Aerosol  |
| Skin corrosion/irritation:                                    |      |    |         |     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant, Repeated exposure may cause skin dryness or cracking.  |
| Serious eye damage/irritation:                                |      |    |         |     | OECD 405 (Acute Eye Irritation/Corrosion)                | Mild irritant  |
| Respiratory or skin sensitisation:                            |      |    |         |     | OECD 406 (Skin Sensitisation)                            | No (inhalation and skin contact)   |
| Germ cell mutagenicity:                                       |      |    |         |     | OECD 471 (Bacterial Reverse Mutation Test)               | Negative   |
| Carcinogenicity:  |      |    |         |     |  | Negative   |
| Reproductive toxicity:  |      |    |         |     | OECD 416 (Two-generation Reproduction Toxicity Study)    | Negative, Analogous conclusion   |
| Specific target organ toxicity - single exposure (STOT-SE):   |      |    |         |     |  | May cause drowsiness or dizziness.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |      |    |         |     | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Negative   |
| Aspiration hazard:  |      |    |         |     |  | Yes  |
| Symptoms:   |      |    |         |     |  | drying of the skin., respiratory distress, coughing, fever, drowsiness, dizziness, nausea, headaches, unconsciousness, burning of the membranes of the nose and throat |

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|---|--|--|--|--|--|-----------------------------------|
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |  |  |  |  |  | Not irritant (respiratory tract). |
|---|--|--|--|--|--|-----------------------------------|

| <b>Butane</b>   |                 |              |             |                        |  |  |
|---|-----------------|--------------|-------------|------------------------|--|--|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>   | <b>Notes</b>   |
| Acute toxicity, by inhalation:  | LC50            | 658          | mg/l/4h     | Rat                    |  |  |
| Germ cell mutagenicity:   |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Germ cell mutagenicity:   |                 |              |             |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |                 |              |             | Human being            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |                 |              |             | Rat                    | OECD 474 (Mammalian Erythrocyte Micronucleus Test)   | Negative   |
| Aspiration hazard:  |                 |              |             |                        |  | No   |
| Symptoms:   |                 |              |             |                        |  | ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL           | 21,394       | mg/l        | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development Tox. Screening Test) |  |



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| <b>Propane</b>  |                 |              |             |                        |  |  |
|---|-----------------|--------------|-------------|------------------------|--|--|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>   | <b>Notes</b>   |
| 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/Developmental 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/Developmental Tox. Screening Test) |  |



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|                                      |  |  |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|--|--|
| 12.2. Persistence and degradability: |  |  |  |  |  |  | Isolate as much as possible with an oil separator. The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer . |
| 12.3. Bioaccumulative potential:     |  |  |  |  |  |  | Not accepted owing to the logP values of the components.   |
| 12.4. Mobility in soil:              |  |  |  |  |  |  | n.d.a.   |





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|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
| 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, C6, isoalkanes, <5% n-hexane |           |      |       |      |                                 |  |  |
|--|-----------|------|-------|------|---------------------------------|--|--|
| Toxicity / effect                          | Endpoint  | Time | Value | Unit | Organism                        | Test method  | Notes  |
| 12.1. Toxicity to fish:                    | NOEC/NOEL | 28d  | 4,09  | mg/l | Oncorhynchus mykiss             | QSAR   |  |
| 12.1. Toxicity to fish:                    | EC50      | 96h  | 18,27 | mg/l | Oncorhynchus mykiss             |  |  |
| 12.1. Toxicity to daphnia:                 | NOEC/NOEL | 21d  | 7,14  | mg/l | Daphnia magna                   | QSAR   |  |
| 12.1. Toxicity to daphnia:                 | LC50      | 48h  | 3,87  | mg/l | Daphnia magna                   |  | Analogous conclusion   |
| 12.1. Toxicity to algae:                   | EC50      | 72h  | 13,56 | mg/l | Pseudokirchneriella subcapitata | QSAR   |  |
| 12.1. Toxicity to algae:                   | ErL50     | 72h  | 55    | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion   |
| 12.2. Persistence and degradability:       |           | 28d  | 98    | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable (Analogous conclusion), Analogous conclusion |
| 12.3. Bioaccumulative potential:           | Log Kow   |      | 4     |      |                                 |  |  |
| 12.5. Results of PBT and vPvB assessment   |           |      |       |      |                                 |  | No PBT substance, No vPvB substance                                |

| Pentane                    |          |      |       |      |                     |             |       |
|----------------------------|----------|------|-------|------|---------------------|-------------|-------|
| Toxicity / effect          | Endpoint | Time | Value | Unit | Organism            | Test method | Notes |
| 12.1. Toxicity to fish:    | LC50     | 96h  | 4,26  | mg/l | Oncorhynchus mykiss |             |       |
| 12.1. Toxicity to daphnia: | EC50     | 48h  | 2,7   | mg/l | Daphnia magna       |             |       |



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|  |           |     |      |      |                                 |  |   |
|--|-----------|-----|------|------|---------------------------------|--|---|
| 12.1. Toxicity to algae:                 | EC50      | 72h | 10,7 | mg/l | Pseudokirchneriella subcapitata |  |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | 7,51 | mg/l | Pseudokirchneriella subcapitata |  |   |
| 12.2. Persistence and degradability:     |           | 28d | 87   | %    |                                 |  |   |
| 12.2. Persistence and degradability:     |           |     |      |      |                                 |  | Readily biodegradable, Photochemical decomposition in the atmosphere. |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 3,39 |      |                                 |  |   |
| 12.5. Results of PBT and vPvB assessment |           |     |      |      |                                 |  | No PBT substance, No vPvB substance                                   |

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

| <b>Propane</b>           |                 |             |              |             |                 |                    |              |
|--------------------------|-----------------|-------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Toxicity / effect</b> | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |



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|  |         |  |      |  |  |  |   |
|--|---------|--|------|--|--|--|---|
| 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   |

## 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 02 17 waste containing silicones other than those mentioned in 07 02 16

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.

15 01 04 metallic packaging

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

## 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: environmentally hazardous



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Tunnel restriction code: D  
**Transport by sea (IMDG-code)**  
 14.2. UN proper shipping name:  
 AEROSOLS (ISOHEXANES,PENTANES)  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 EmS: F-D, S-U  
 Marine Pollutant: Yes  
 14.5. Environmental hazards: environmentally hazardous



**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 |
|-------------------|------------------|---|---|
| E2                |                  | 200   | 500   |
| 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:



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| 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): 90,4 %  
**REGULATION (EC) No 648/2004**  
 n.a.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 2  
 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                             |
|---|--|
| Skin Irrit. 2, H315   | Classification according to calculation procedure. |
| Asp. Tox. 1, H304   | Classification according to calculation procedure. |
| STOT SE 3, H336   | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411   | Classification according to calculation procedure. |
| Aerosol 1, H222   | Classification based on test data.                 |
| Aerosol 1, H229   | Classification based on test data.                 |

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

H224 Extremely flammable liquid and vapour.  
 H225 Highly 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.

Skin Irrit. — Skin irritation  
 Asp. Tox. — Aspiration hazard



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STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Aerosol — Aerosols  
Flam. Liq. — Flammable liquid

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**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  
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



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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.