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 Replacing version dated / version: 06.02.2018 / 0015  
 Valid from: 22.02.2019  
 PDF print date: 08.03.2019  
 Motorbike Reifen-Reparatur-Spray 300 mL  
 Art.: 1579

## 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

**Motorbike Reifen-Reparatur-Spray 300 mL**  
**Art.: 1579**

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

**Relevant identified uses of the substance or mixture:**

No information available at present.

**Uses advised against:**

No information available at present.

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

GB

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany  
 Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

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 (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   |
|-----------------|---------------------|--|
| Eye Irrit.      | 2                   | H319-Causes serious eye irritation.                        |
| Lact.           | Additional category | H362-May cause harm to breast-fed children.                |
| STOT SE         | 3                   | H336-May cause drowsiness or dizziness.                    |
| Aquatic Acute   | 1                   | H400-Very toxic to aquatic life.                           |
| Aerosol         | 1                   | H222-Extremely flammable aerosol.                          |
| Aquatic Chronic | 1                   | H410-Very toxic to aquatic life with long lasting effects. |
| Aerosol         | 1                   | H229-Pressurised container: May burst if heated.           |

#### 2.2 Label elements

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

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**Danger**

H319-Causes serious eye irritation. H362-May cause harm to breast-fed children. H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H410-Very toxic to aquatic life with long lasting effects. 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.

P201-Obtain special instructions before use. 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. P260-Do not breathe vapours or spray. P263-Avoid contact during pregnancy and while nursing. P273-Avoid release to the environment. P280-Wear eye protection.

P308+P313-IF exposed or concerned: Get medical advice / attention.

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.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

n-butyl acetate

Butanone

Alkanes, C14-17, chloro

Acetone

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substance

n.a.

### 3.2 Mixture

| Dimethyl ether  | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH)                                 | 01-2119472128-37-XXXX                                   |
| Index   | 603-019-00-8  |
| EINECS, ELINCS, NLP   | 204-065-8   |
| CAS   | 115-10-6  |
| content %   | 20-50   |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Gas 1, H220                                       |

| n-butyl acetate             |              |
|-----------------------------|--------------|
| Registration number (REACH) | ---          |
| Index                       | 607-025-00-1 |
| EINECS, ELINCS, NLP         | 204-658-1    |
| CAS                         | 123-86-4     |
| content %                   | 20-40        |

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|  |                                       |
|--|---------------------------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 3, H226<br>STOT SE 3, H336 |
|--|---------------------------------------|

|  |  |
|--|--|
| <b>Acetone</b>   | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>                                 | 01-2119471330-49-XXXX  |
| <b>Index</b>   | 606-001-00-8   |
| <b>EINECS, ELINCS, NLP</b>   | 200-662-2  |
| <b>CAS</b>   | 67-64-1  |
| <b>content %</b>   | 10-20  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336    |

|  |  |
|--|--|
| <b>Butanone</b>  | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>                                 | ---  |
| <b>Index</b>   | 606-002-00-3   |
| <b>EINECS, ELINCS, NLP</b>   | 201-159-0  |
| <b>CAS</b>   | 78-93-3  |
| <b>content %</b>   | 10-20  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336    |

|  |  |
|--|--|
| <b>Alkanes, C14-17, chloro</b>                                     |  |
| <b>Registration number (REACH)</b>                                 | ---  |
| <b>Index</b>   | 602-095-00-X   |
| <b>EINECS, ELINCS, NLP</b>   | 287-477-0  |
| <b>CAS</b>   | 85535-85-9   |
| <b>content %</b>   | 0,25-<20   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Lact. Additional category, H362<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=10) |

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.

Respiratory arrest - Artificial respiration apparatus necessary.

symptoms:

Fatigue

Mental confusion

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

symptoms:

Mild irritant

#### Eye contact

Remove contact lenses.

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

symptoms:

Watering eyes

Irritation of the eyes

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## Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

symptoms:

Headaches

Nausea

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

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Unconsciousness

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

CO2

Extinction powder

### Unsuitable extinguishing media

n.c.

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Hydrogen chloride

Toxic gases

Explosive vapour/air or gas/air mixtures.

Danger of bursting (explosion) when heated

## 5.3 Advice for firefighters

Protective respirator with independent air supply.

Full protection, if necessary.

Water jet spray

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

In case of fire and/or explosion do not breathe fumes.

# 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.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

## 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

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## 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.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Do not use the product in enclosed spaces.

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.

Do not store with flammable or self-igniting materials.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

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

Store in a well ventilated place.

Observe special storage conditions.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name  | Dimethyl ether  | Content %:20-50        |
|--|---|------------------------|
| 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:   | - Compur - KITA-123 S (549 129)   |                        |
| BMGV: ---  |   | Other information: --- |
| Chemical Name  | n-butyl acetate   | Content %:20-40        |
| WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> )  | WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> )  | ---                    |
| Monitoring procedures:   | - Compur - KITA-139 SB(C) (549 731)<br>- Compur - KITA-138 U (548 857)  |                        |
| BMGV: ---  |   | Other information: --- |
| Chemical Name  | Acetone   | Content %:10-20        |
| WEL-TWA: 500 ppm (1210 mg/m <sup>3</sup> ) (WEL, EU)                                     | WEL-STEL: 1500 ppm (3620 mg/m <sup>3</sup> ) (WEL)  | ---                    |
| Monitoring procedures:   | - Compur - KITA-102 SA (548 534)<br>- Compur - KITA-102 SC (548 550)<br>- Compur - KITA-102 SD (551 109)<br>- Draeger - Acetone 40/a (5) (81 03 381)<br>- Draeger - Acetone 100/b (CH 22 901)<br>MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004)<br>MDHS 72 (Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 |                        |

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|           |                        |
|-----------|------------------------|
| BMGV: --- | Other information: --- |
|-----------|------------------------|

| Chemical Name   | Butanone  | Content %:10-20       |
|---|---|-----------------------|
| WEL-TWA: 200 ppm (600 mg/m3) (WEL, EU)  | WEL-STEL: 300 ppm (899 mg/m3) (WEL), 300 ppm (900 mg/m3) (EU) | ---                   |
| Monitoring procedures: <ul style="list-style-type: none"> <li>- Compur - KITA-122 SA(C) (549 277)</li> <li>- Compur - KITA-139 SB (549 731)</li> <li>- Compur - KITA-139 U (549 749)</li> <li>- MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105-1 (2004)</li> <li>- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993</li> <li>- DFG (D) (Loesungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1998, 2002</li> <li>- DFG (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 1998, 2002</li> <li>- DFG (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 1998, 2002</li> <li>- DFG (D) (Loesungsmittelgemische 5), DFG (E) (Solvent mixtures 5) - 1998, 2002</li> <li>- DFG (D) (Loesungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 1998, 2002</li> </ul> |   |                       |
| BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV)   |   | Other information: Sk |

| 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 |      |
|                     | 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 |      |

| n-butyl acetate     |  |                              |            |        |            |      |
|---------------------|--|------------------------------|------------|--------|------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health             | Descriptor | Value  | Unit       | Note |
|                     | Environment - freshwater                   |                              | PNEC       | 0,18   | mg/l       |      |
|                     | Environment - marine                       |                              | PNEC       | 0,018  | mg/l       |      |
|                     | Environment - periodic release             |                              | PNEC       | 0,36   | mg/l       |      |
|                     | Environment - sediment, freshwater         |                              | PNEC       | 0,981  | mg/kg      |      |
|                     | Environment - sediment, marine             |                              | PNEC       | 0,0981 | mg/kg      |      |
|                     | Environment - soil                         |                              | PNEC       | 0,0903 | mg/kg      |      |
|                     | Environment - sewage treatment plant       |                              | PNEC       | 35,6   | mg/l       |      |
| Consumer            | Human - dermal                             | Long term, systemic effects  | DNEL       | 6      | mg/kg bw/d |      |
| Consumer            | Human - inhalation                         | Short term, systemic effects | DNEL       | 300    | mg/m3      |      |

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|                     |                    |                              |      |      |                   |  |
|---------------------|--------------------|------------------------------|------|------|-------------------|--|
| Consumer            | Human - inhalation | Long term, systemic effects  | DNEL | 35,7 | mg/m <sup>3</sup> |  |
| Consumer            | Human - inhalation | Short term, local effects    | DNEL | 300  | mg/m <sup>3</sup> |  |
| Consumer            | Human - inhalation | Long term, local effects     | DNEL | 35,7 | mg/m <sup>3</sup> |  |
| Consumer            | Human - dermal     | Short term, systemic effects | DNEL | 6    | mg/kg bw/day      |  |
| Consumer            | Human - oral       | Long term, systemic effects  | DNEL | 2    | mg/kg bw/day      |  |
| Consumer            | Human - oral       | Short term, systemic effects | DNEL | 2    | mg/kg bw/day      |  |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 600  | mg/m <sup>3</sup> |  |
| Workers / employees | Human - inhalation | Long term, systemic effects  | DNEL | 300  | mg/m <sup>3</sup> |  |
| Workers / employees | Human - dermal     | Long term, systemic effects  | DNEL | 11   | mg/kg bw/d        |  |
| Workers / employees | Human - dermal     | Short term, systemic effects | DNEL | 11   | mg/kg bw/day      |  |
| Workers / employees | Human - inhalation | Short term, local effects    | DNEL | 600  | mg/m <sup>3</sup> |  |
| Workers / employees | Human - inhalation | Long term, local effects     | DNEL | 300  | mg/m <sup>3</sup> |  |

| Acetone             |   |                             |            |       |                   |                             |
|---------------------|---|-----------------------------|------------|-------|-------------------|-----------------------------|
| Area of application | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value | Unit              | Note                        |
|                     | Environment - marine                          |                             | PNEC       | 1,06  | mg/l              | Assesment factor 500        |
|                     | Environment - freshwater                      |                             | PNEC       | 10,6  | mg/l              | Assesment factor 50         |
|                     | Environment - sediment, freshwater            |                             | PNEC       | 30,4  | mg/l              |                             |
|                     | Environment - sediment, marine                |                             | PNEC       | 3,04  | mg/l              |                             |
|                     | Environment - soil                            |                             | PNEC       | 29,5  | mg/kg dw          |                             |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 19,5  | mg/l              |                             |
|                     | Environment - sporadic (intermittent) release |                             | PNEC       | 21    | mg/l              | Assesment factor 100        |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 100   | mg/l              |                             |
| Consumer            | Human - oral                                  | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day      | Overall assesment factor 2  |
| Consumer            | Human - dermal                                | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day      | Overall assesment factor 20 |
| Consumer            | Human - inhalation                            | Long term, systemic effects | DNEL       | 200   | mg/m <sup>3</sup> | Overall assesment factor 5  |
| Workers / employees | Human - dermal                                | Long term, systemic effects | DNEL       | 186   | mg/kg bw/day      |                             |
| Workers / employees | Human - inhalation                            | Short term, local effects   | DNEL       | 2420  | mg/m <sup>3</sup> |                             |
| Workers / employees | Human - inhalation                            | Long term, systemic effects | DNEL       | 1210  | mg/m <sup>3</sup> |                             |

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| Area of application | Exposure route / Environmental compartment    | Effect on health | Descriptor | Value  | Unit  | Note |
|---------------------|---|------------------|------------|--------|-------|------|
|                     | Environment - freshwater                      |                  | PNEC       | 55,8   | mg/l  |      |
|                     | Environment - marine                          |                  | PNEC       | 55,8   | mg/l  |      |
|                     | Environment - sediment, freshwater            |                  | PNEC       | 284,74 | mg/kg |      |
|                     | Environment - sediment, marine                |                  | PNEC       | 287,7  | mg/kg |      |
|                     | Environment - soil                            |                  | PNEC       | 22,5   | mg/kg |      |
|                     | Environment - sewage treatment plant          |                  | PNEC       | 709    | mg/l  |      |
|                     | Environment - sporadic (intermittent) release |                  | PNEC       | 55,8   | mg/l  |      |
|                     | Environment - oral (animal feed)              |                  | PNEC       | 1000   | mg/kg |      |
| Consumer            | Human - dermal                                | Long term        | DNEL       | 412    | mg/kg |      |
| Consumer            | Human - inhalation                            | Long term        | DNEL       | 106    | mg/m3 |      |
| Consumer            | Human - oral                                  | Long term        | DNEL       | 31     | mg/kg |      |
| Workers / employees | Human - dermal                                | Long term        | DNEL       | 1161   | mg/kg |      |
| Workers / employees | Human - inhalation                            | Long term        | DNEL       | 600    | mg/m3 |      |

| Alkanes, C14-17, chloro |  |                             |            |       |              |      |
|-------------------------|--|-----------------------------|------------|-------|--------------|------|
| Area of application     | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
|                         | Environment - soil                         |                             | PNEC       | 11,9  | mg/kg dw     |      |
|                         | Environment - sediment, freshwater         |                             | PNEC       | 13    | mg/kg dw     |      |
|                         | Environment - sediment, marine             |                             | PNEC       | 2,6   | mg/kg dw     |      |
|                         | Environment - freshwater                   |                             | PNEC       | 1     | µg/l         |      |
|                         | Environment - marine                       |                             | PNEC       | 0,2   | µg/l         |      |
|                         | Environment - sewage treatment plant       |                             | PNEC       | 80    | mg/l         |      |
| Consumer                | Human - inhalation                         | Long term, systemic effects | DNEL       | 2     | mg/m3        |      |
| Consumer                | Human - dermal                             | Long term, systemic effects | DNEL       | 28,72 | mg/kg bw/day |      |
| Consumer                | Human - oral                               | Long term, systemic effects | DNEL       | 0,58  | mg/kg bw/day |      |
| Workers / employees     | Human - inhalation                         | Long term, systemic effects | DNEL       | 6,7   | mg/m3        |      |
| Workers / employees     | Human - dermal                             | Long term, systemic effects | DNEL       | 47,9  | mg/kg bw/day |      |

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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | 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.

## 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.



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Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

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

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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

Skin protection - Hand protection:

Safety gloves made of butyl (EN 374)

Minimum layer thickness in mm:

$\geq 0,4$

Permeation time (penetration time) in minutes:

$> 240$

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:

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:                                  | Yellow                             |
| 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                     |

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|  |                               |
|--|-------------------------------|
| Flammability (solid, gas):               | Not determined                |
| Lower explosive limit:                   | 2,7 Vol-%                     |
| Upper explosive limit:                   | 18,6 Vol-%                    |
| Vapour pressure:                         | 3100-4000 hPa                 |
| Vapour density (air = 1):                | Vapours heavier than air.     |
| Density:                                 | 0,795-0,79 g/ml               |
| Bulk density:                            | n.a.                          |
| Solubility(ies):                         | Not determined                |
| Water solubility:                        | Insoluble                     |
| Partition coefficient (n-octanol/water): | Not determined                |
| Auto-ignition temperature:               | 235 °C (Ignition temperature) |
| Decomposition temperature:               | Not determined                |
| Viscosity:                               | Not determined                |
| Explosive properties:                    | Not determined                |
| 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

See also Subsection 10.2 to 10.6.  
 The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.1 to 10.6.  
 Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.  
 No decomposition if used as intended.

### 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

See also section 7.  
 Oxidizing agents

### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.  
 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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| 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. |

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|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 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.   |
| Other information:  |  |  |  |  |  | Classification according to calculation procedure. |

| Dimethyl ether  |          |       |         |          |   |   |
|---|----------|-------|---------|----------|---|---|
| Toxicity / effect   | Endpoint | Value | Unit    | Organism | Test method   | Notes   |
| Acute toxicity, by inhalation:                                | LC50     | 164   | mg/l/4h | Rat      |   |   |
| Acute toxicity, by inhalation:                                | LC50     | 308   | 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:  |          |       |         |          |   | Negative  |
| Reproductive toxicity:  |          |       |         |          |   | Negative  |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC    | 47106 | mg/kg   | Rat      | OECD 452 (Chronic Toxicity Studies)   | Negative(2 a)   |
| Aspiration hazard:  |          |       |         |          |   | No  |
| Symptoms:   |          |       |         |          |   | unconsciousness, headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestinal disturbances, respiratory distress, circulatory collapse |

| n-butyl acetate                  |          |        |       |          |   |       |
|----------------------------------|----------|--------|-------|----------|---|-------|
| Toxicity / effect                | Endpoint | Value  | Unit  | Organism | Test method   | Notes |
| Acute toxicity, by oral route:   | LD50     | 10760  | mg/kg | Rat      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |       |
| Acute toxicity, by dermal route: | LD50     | >14112 | mg/kg | Rabbit   | OECD 402 (Acute Dermal Toxicity)                          |       |

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|   |      |      |         |            |  |   |
|---|------|------|---------|------------|--|---|
| Acute toxicity, by inhalation:                                | LC50 | 21,1 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)         | Mist  |
| Skin corrosion/irritation:                                    |      |      |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant  |
| Serious eye damage/irritation:                                |      |      |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)    | Not irritant  |
| Respiratory or skin sensitisation:                            |      |      |         | Guinea pig | OECD 406 (Skin Sensitisation)                | No (skin contact)   |
| Germ cell mutagenicity:                                       |      |      |         |            | OECD 471 (Bacterial Reverse Mutation Test)   | Negative  |
| Specific target organ toxicity - single exposure (STOT-SE):   |      |      |         |            |  | Vapours may cause drowsiness and dizziness.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |      |      |         |            |  | Negative  |
| Symptoms:   |      |      |         |            |  | drowsiness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Acetone                            |          |        |         |            |  |  |
|------------------------------------|----------|--------|---------|------------|--|--|
| Toxicity / effect                  | Endpoint | Value  | Unit    | Organism   | Test method  | Notes  |
| Acute toxicity, by oral route:     | LD50     | 5800   | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                           |  |
| Acute toxicity, by dermal route:   | LD50     | >15800 | mg/kg   | Rat        |  |  |
| Acute toxicity, by inhalation:     | LC50     | ~76    | mg/l/4h | Rat        |  |  |
| Skin corrosion/irritation:         |          |        |         | Guinea pig |  | Slightly irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:     |          |        |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Irritant   |
| Respiratory or skin sensitisation: |          |        |         | Guinea pig | OECD 406 (Skin Sensitisation)                            | Not sensitizing  |
| 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 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative   |

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|           |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|
| Symptoms: |  |  |  |  |  | unconsciousness<br>, vomiting,<br>headaches,<br>gastrointestinal<br>disturbances,<br>fatigue, mucous<br>membrane<br>irritation,<br>dizziness,<br>nausea,<br>drowsiness |
|-----------|--|--|--|--|--|--|

| Butanone                           |          |       |         |          |   |   |
|------------------------------------|----------|-------|---------|----------|---|---|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism | Test method   | Notes   |
| Acute toxicity, by oral route:     | LD50     | >2000 | mg/kg   | Rat      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |   |
| Acute toxicity, by dermal route:   | LD50     | 5000  | mg/kg   | Rabbit   |   |   |
| Acute toxicity, by inhalation:     | LC50     | 34,5  | mg/l/4h | Rat      |   |   |
| Skin corrosion/irritation:         |          |       |         |          |   | Mild irritant,<br>Repeated exposure may cause skin dryness or cracking.   |
| Serious eye damage/irritation:     |          |       |         |          |   | Irritant  |
| Respiratory or skin sensitisation: |          |       |         |          |   | Not sensitising   |
| Germ cell mutagenicity:            |          |       |         |          | OECD 471 (Bacterial Reverse Mutation Test)                | Negative  |
| Symptoms:                          |          |       |         |          |   | respiratory distress,<br>drowsiness,<br>unconsciousness<br>, drop in blood pressure,<br>coughing,<br>headaches,<br>cramps,<br>intoxication,<br>drowsiness,<br>mucous membrane irritation,<br>dizziness,<br>nausea and vomiting., mental confusion |

| Alkanes, C14-17, chloro            |          |       |       |            |             |   |
|------------------------------------|----------|-------|-------|------------|-------------|---|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism   | Test method | Notes   |
| Acute toxicity, by oral route:     | LD50     | >2000 | mg/kg | Rat        |             | Analogous conclusion                                  |
| Acute toxicity, by dermal route:   | LD50     | 4000  | mg/kg | Rat        |             |   |
| Skin corrosion/irritation:         |          |       |       |            |             | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:     |          |       |       |            |             | Not irritant  |
| Respiratory or skin sensitisation: |          |       |       | Guinea pig |             | Not sensitising                                       |
| Germ cell mutagenicity:            |          |       |       |            | (Ames-Test) | Negative  |

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|  |       |          |               |  |  |                                      |
|--|-------|----------|---------------|--|--|--------------------------------------|
| Reproductive toxicity:                             |       | 100-5000 | mg/kg<br>bw/d |  |  | Negative,<br>Analogous<br>conclusion |
| Reproductive toxicity<br>(Developmental toxicity): | NOAEL | 500      | mg/kg<br>bw/d |  | OECD 414 (Prenatal<br>Developmental Toxicity<br>Study) | Positive,<br>Analogous<br>conclusion |

## SECTION 12: Ecological information

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

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| Toxicity / effect                           | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|---|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish:                     |          |      |       |      |          |             | n.d.a.  |
| 12.1. Toxicity to daphnia:                  | EC50     | 48h  | >100  | mg/l |          |             | Analogous<br>conclusion   |
| 12.1. Toxicity to algae:                    | EC50     | 72h  | >100  | mg/l |          |             | Analogous<br>conclusion   |
| 12.2. Persistence and<br>degradability:     |          |      |       |      |          |             | n.d.a.  |
| 12.3. Bioaccumulative<br>potential:         |          |      |       |      |          |             | n.d.a.  |
| 12.4. Mobility in soil:                     |          |      |       |      |          |             | Product is<br>slightly volatile.  |
| 12.5. Results of PBT<br>and vPvB assessment |          |      |       |      |          |             | n.d.a.  |
| 12.6. Other adverse<br>effects:             |          |      |       |      |          |             | n.d.a.  |
| Other information:                          |          |      |       |      |          |             | Contains<br>organically<br>bound halogens,<br>which may<br>contribute to the<br>AOX value in<br>wastewater. |

### Dimethyl ether

| Toxicity / effect                           | Endpoint  | Time | Value | Unit          | Organism               | Test method   | Notes   |
|---|-----------|------|-------|---------------|------------------------|---|---|
| 12.1. Toxicity to fish:                     | LC0       | 96h  | 2695  | mg/l          | Pimephales<br>promelas |   |   |
| 12.1. Toxicity to fish:                     | LC50      | 96h  | 3082  | mg/l          | Salmo gairdneri        |   |   |
| 12.1. Toxicity to fish:                     | LC50      | 96h  | >4000 | mg/l          | Poecilia reticulata    |   |   |
| 12.1. Toxicity to daphnia:                  | EC50      | 48h  | >4000 | mg/l          | Daphnia magna          |   |   |
| 12.1. Toxicity to algae:                    | EC0       | 96h  | 154,9 | mg/l          | Chlorella vulgaris     | QSAR  |   |
| 12.2. Persistence and<br>degradability:     |           | 28d  | 5     | %             |                        | OECD 301 D<br>(Ready<br>Biodegradability -<br>Closed Bottle Test) | Not readily<br>biodegradable                                  |
| 12.3. Bioaccumulative<br>potential:         | Log Pow   |      | -0,07 |               |                        |   | Bioaccumulation<br>is unlikely<br>(LogPow <<br>1).25°C (pH 7) |
| 12.4. Mobility in soil:                     | H (Henry) |      | 518,6 | Pa*m3/m<br>ol |                        |   | No adsorption in<br>soil.                                     |
| 12.5. Results of PBT<br>and vPvB assessment |           |      |       |               |                        |   | No PBT<br>substance, No<br>vPvB substance                     |
| Toxicity to bacteria:                       | EC10      |      | >1600 | mg/l          | Pseudomonas<br>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   |

| n-butyl acetate                          |           |      |          |      |                         |  |   |
|--|-----------|------|----------|------|-------------------------|--|---|
| Toxicity / effect                        | Endpoint  | Time | Value    | Unit | Organism                | Test method  | Notes                                     |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 18       | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                     |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 44       | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |   |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 23       | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)               |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 397      | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                  |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 200      | mg/l | Desmodesmus subspicatus |  |   |
| 12.2. Persistence and degradability:     |           | 28d  | 98       | %    |                         | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 1,85-2,3 |      |                         |  | Low, Product floats on the water surface. |
| 12.5. Results of PBT and vPvB assessment |           |      |          |      |                         |  | No PBT substance, No vPvB substance       |
| Toxicity to bacteria:                    | EC10      |      | 959      | mg/l | Pseudomonas putida      |  |   |

| Acetone                              |           |       |            |      |                                 |  |                       |
|--------------------------------------|-----------|-------|------------|------|---------------------------------|--|-----------------------|
| Toxicity / effect                    | Endpoint  | Time  | Value      | Unit | Organism                        | Test method  | Notes                 |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 28d   | 2212       | mg/l | Daphnia pulex                   |  |                       |
| Toxicity to bacteria:                | EC10      | 30min | 1000       | mg/l | activated sludge                | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                       |
| 12.2. Persistence and degradability: |           | 28d   | 91         | %    |                                 | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)                                  | Readily biodegradable |
| 12.1. Toxicity to fish:              | LC50      | 96h   | 5540       | mg/l | Oncorhynchus mykiss             |  |                       |
| 12.1. Toxicity to fish:              | LC50      | 96h   | 7500       | mg/l | Leuciscus idus                  |  |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 48h   | 6100-12700 | mg/l | Daphnia magna                   |  |                       |
| 12.1. Toxicity to algae:             | EC50      | 48h   | 4740       | mg/l | Pseudokirchneriella subcapitata |  |                       |



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|  |           |     |           |      |                                 |  |                                     |
|--|-----------|-----|-----------|------|---------------------------------|--|-------------------------------------|
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 48h | 3400      | mg/l | Pseudokirchneriella subcapitata |  |                                     |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | -0,24     |      |                                 |  |                                     |
| 12.3. Bioaccumulative potential:         | BCF       |     | 0,19      |      |                                 |  |                                     |
| 12.4. Mobility in soil:                  |           |     |           |      |                                 |  | No adsorption in soil.              |
| 12.5. Results of PBT and vPvB assessment |           |     |           |      |                                 |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | BOD/COD   | 16h | 1700      | mg/l | Pseudomonas putida              |  |                                     |
| Other information:                       | BOD5      |     | 1760-1900 | mg/g |                                 |  |                                     |
| Other information:                       | COD       |     | 2100      | mg/g |                                 |  |                                     |
| Other information:                       | AOX       |     | 0         | %    |                                 |  |                                     |

#### Butanone

| Toxicity / effect                    | Endpoint  | Time | Value     | Unit       | Organism                        | Test method  | Notes                                     |
|--------------------------------------|-----------|------|-----------|------------|---------------------------------|--|---|
| 12.1. Toxicity to fish:              | LC50      | 96h  | 1690      | mg/l       | Lepomis macrochirus             |  |   |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 2993      | mg/l       | Pimephales promelas             | OECD 203 (Fish, Acute Toxicity Test)                             |   |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 308       | mg/l       | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                 |   |
| 12.1. Toxicity to algae:             | LC50      | 72h  | 1972      | mg/l       | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                          |   |
| 12.2. Persistence and degradability: |           | 28d  | 98        | %          |                                 | OECD 301 D (Ready Biodegradability - Closed Bottle Test)         | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | 0,29      |            |                                 | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | Bioaccumulation is unlikely (LogPow < 1). |
| 12.4. Mobility in soil:              | H (Henry) |      | 0,0000244 | atm*m3/mol |                                 |  | 25°C                                      |
| Other information:                   | DOC       |      | >70       | %          |                                 |  |   |
| Other information:                   | BOD/COD   |      | >50       | %          |                                 |  |   |

#### Alkanes, C14-17, chloro

| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism      | Test method | Notes   |
|--------------------------------------|-----------|------|-------|------|---------------|-------------|---|
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 0,01  | mg/l | Daphnia magna |             |   |
| 12.1. Toxicity to daphnia:           | LOEC/LOEL | 21d  | 0,018 | mg/l | Daphnia magna |             |   |
| Other organisms:                     | NOEC/NOEL | 60d  | 0,22  | mg/l |               |             | Crustacean (Mytilus edulis)   |
| 12.4. Mobility in soil:              |           |      |       |      |               |             | Slight  |
| 12.2. Persistence and degradability: | DT50      |      | 12-58 | d    |               |             | Analogous conclusion C16 chlorinated paraffins (containing 35% Cl2 & 58% Cl2) |

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|                                      |           |     |        |      |                           |  |  |
|--------------------------------------|-----------|-----|--------|------|---------------------------|--|--|
| 12.2. Persistence and degradability: |           |     | 51-57  | %    |                           |  | Analogous conclusion 36h, C14,5 & C15,4 (average C chain length) with 43,5% & 50% chlorination |
| 12.1. Toxicity to fish:              | LC50      | 96h | >5000  | mg/l | Alburnus alburnus         |  |  |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d | 0,01   | mg/l | Daphnia magna             | OECD 202 (Daphnia sp. Acute Immobilisation Test) |  |
| 12.1. Toxicity to daphnia:           | EC50      | 48h | 0,0059 | mg/l | Daphnia magna             |  |  |
| 12.1. Toxicity to algae:             | EC50      | 96h | >=3,2  | mg/l | Selenastrum capricornutum |  |  |
| 12.2. Persistence and degradability: |           |     |        |      |                           |  | Hardly biodegradable   |
| 12.4. Mobility in soil:              |           |     |        |      |                           |  | Adsorption in ground., Sediment  |
| Toxicity to bacteria:                | EC50      | 3h  | >2000  | mg/l | activated sludge          |  |  |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

#### 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

Recycling

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):

14.4. Packing group:

Classification code:

LQ:

14.5. Environmental hazards:

Tunnel restriction code:

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS (ALKANES, C14-C17, CHLORO-)



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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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
 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 |
|-------------------|------------------|---|---|
| E1                |                  | 100   | 200   |
| 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 2010/75/EU (VOC): < 93,6 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

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

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

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

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| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Eye Irrit. 2, H319  | Classification according to calculation procedure. |
| Lact. Additional category, H362                                       | Classification according to calculation procedure. |
| STOT SE 3, H336   | Classification according to calculation procedure. |
| Aquatic Acute 1, H400   | Classification according to calculation procedure. |
| Aerosol 1, H222   | Classification based on test data.                 |
| Aquatic Chronic 1, H410   | Classification according to calculation procedure. |
| Aerosol 1, H229   | Classification based on test data.                 |

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

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H362 May cause harm to breast-fed children.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H220 Extremely flammable gas.

Eye Irrit. — Eye irritation  
Lact. — Reproductive toxicity - effects on or via lactation  
STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Aquatic Acute — Hazardous to the aquatic environment - acute  
Aerosol — Aerosols  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Flam. Gas — Flammable gases (including chemically unstable gases)  
Flam. Liq. — Flammable liquid

### Any abbreviations and acronyms used in this document:

AC Article Categories  
acc., acc. to according, according to  
ACGIH American Conference of Governmental Industrial Hygienists  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOEL Acceptable Operator Exposure Level  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)  
BMGV Biological monitoring guidance value (EH40, UK)  
BOD Biochemical oxygen demand  
BSEF Bromine Science and Environmental Forum  
bw body weight  
CAS Chemical Abstracts Service  
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
CIPAC Collaborative International Pesticides Analytical Council  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

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CMR carcinogenic, mutagenic, reproductive toxic  
 COD Chemical oxygen demand  
 CTFA Cosmetic, Toiletry, and Fragrance Association  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 DT50 Dwell Time - 50% reduction of start concentration  
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEA European Economic Area  
 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)  
 ERC Environmental Release Categories  
 ES Exposure scenario  
 etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 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  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category

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PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million

PROC Process category

PTFE Polytetrafluorethylene

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)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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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