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Revision date / version: 23.01.2024 / 0003  
Replacing version dated / version: 15.11.2023 / 0002  
Valid from: 23.01.2024  
PDF print date: 23.01.2024  
Plastiklack-Spray schwarz  
Art.: 103999

## **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**

**Plastiklack-Spray schwarz**  
**Art.: 103999**

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

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

Lacquer spray

**Uses advised against:**

No information available at present.

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

Koch-Chemie GmbH  
Einsteinstrasse 42  
59423 Unna  
Telefon: +49 (0) 2303 / 9 86 70 - 0  
Fax: +49 (0) 2303 / 9 86 70 - 26  
info@koch-chemie.com  
www.koch-chemie.com

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:**

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

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

+1 872 5888271 (KCC)

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

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

| <b>Hazard class</b> | <b>Hazard category</b> | <b>Hazard statement</b>                          |
|---------------------|------------------------|--------------------------------------------------|
| Eye Irrit.          | 2                      | H319-Causes serious eye irritation.              |
| STOT SE             | 3                      | H336-May cause drowsiness or dizziness.          |
| 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)**

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Danger

H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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. P280-Wear eye protection / face protection.  
P312-Call a POISON CENTRE / doctor if you feel unwell.  
P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH066-Repeated exposure may cause skin dryness or cracking.  
EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Without adequate ventilation, formation of explosive mixtures may be possible.  
n-butyl acetate  
Acetone  
Butanone

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| Acetone                                                                | Substance for which an EU exposure limit value applies.               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119471330-49-XXXX                                                 |
| Index                                                                  | 606-001-00-8                                                          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 200-662-2                                                             |
| CAS                                                                    | 67-64-1                                                               |
| content %                                                              | 25-<50                                                                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| n-butyl acetate                                                        | Substance for which an EU exposure limit value applies.               |
| Registration number (REACH)                                            | 01-2119485493-29-XXXX                                                 |
| Index                                                                  | 607-025-00-1                                                          |

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|                                                                               |                                                 |
|-------------------------------------------------------------------------------|-------------------------------------------------|
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 204-658-1                                       |
| <b>CAS</b>                                                                    | 123-86-4                                        |
| <b>content %</b>                                                              | 3-<5                                            |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 3, H226<br>STOT SE 3, H336 |

|                                                                               |                                                                |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>2-methoxy-1-methylethyl acetate</b>                                        | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>                                            | 01-2119475791-29-XXXX                                          |
| <b>Index</b>                                                                  | 607-195-00-7                                                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-603-9                                                      |
| <b>CAS</b>                                                                    | 108-65-6                                                       |
| <b>content %</b>                                                              | 3-<5                                                           |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 3, H226                                             |

|                                                                               |                                                                                                                                                                        |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Xylene</b>                                                                 | <b>Substance for which an EU exposure limit value applies.</b>                                                                                                         |
| <b>Registration number (REACH)</b>                                            | 01-2119488216-32-XXXX                                                                                                                                                  |
| <b>Index</b>                                                                  | 601-022-00-9                                                                                                                                                           |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 215-535-7                                                                                                                                                              |
| <b>CAS</b>                                                                    | 1330-20-7                                                                                                                                                              |
| <b>content %</b>                                                              | 3-<5                                                                                                                                                                   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| <b>Specific Concentration Limits and ATE</b>                                  | ATE (dermal): 1100 mg/kg<br>ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h<br>ATE (as inhalation, Vapours): 11 mg/l/4h                                                |

|                                                                                                                    |                               |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter &lt;= 10 µm)</b> |                               |
| <b>Registration number (REACH)</b>                                                                                 | ---                           |
| <b>Index</b>                                                                                                       | 022-006-002                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                                                      | 236-675-5                     |
| <b>CAS</b>                                                                                                         | 13463-67-7                    |
| <b>content %</b>                                                                                                   | 1-<5                          |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>                                      | Carc. 2, H351 (as inhalation) |

|                                                                               |                                          |
|-------------------------------------------------------------------------------|------------------------------------------|
| <b>Ethanol</b>                                                                |                                          |
| <b>Registration number (REACH)</b>                                            | 01-2119457610-43-XXXX                    |
| <b>Index</b>                                                                  | 603-002-00-5                             |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-578-6                                |
| <b>CAS</b>                                                                    | 64-17-5                                  |
| <b>content %</b>                                                              | 1-<3                                     |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319 |
| <b>Specific Concentration Limits and ATE</b>                                  | Eye Irrit. 2, H319: >=50 %               |

|                                    |                                                                |
|------------------------------------|----------------------------------------------------------------|
| <b>Butanone</b>                    | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b> | 01-2119457290-43-XXXX                                          |
| <b>Index</b>                       | 606-002-00-3                                                   |

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|                                                                               |                                                                       |
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| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 201-159-0                                                             |
| <b>CAS</b>                                                                    | 78-93-3                                                               |
| <b>content %</b>                                                              | 1-<2,5                                                                |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

|                                                                               |                                   |
|-------------------------------------------------------------------------------|-----------------------------------|
| <b>Glycolic acid n-butyl ester</b>                                            |                                   |
| <b>Registration number (REACH)</b>                                            | 01-2119514685-36-XXXX             |
| <b>Index</b>                                                                  | ---                               |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 230-991-7                         |
| <b>CAS</b>                                                                    | 7397-62-8                         |
| <b>content %</b>                                                              | 0,3-<1                            |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Eye Dam. 1, H318<br>Repr. 2, H361 |

|                                                                                |                                                                                                                         |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)</b> |                                                                                                                         |
| <b>Registration number (REACH)</b>                                             | 01-2119974119-29-XXXX                                                                                                   |
| <b>Index</b>                                                                   | ---                                                                                                                     |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                  | 251-846-4                                                                                                               |
| <b>CAS</b>                                                                     | 34140-91-5                                                                                                              |
| <b>content %</b>                                                               | 0,01-<0,1                                                                                                               |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT RE 2, H373<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.  
 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.  
 The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.  
 If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

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

#### Eye contact

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

#### Ingestion

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

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

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

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

eyes, reddened

watering eyes

headaches

dizziness

Coordination disorders

mental confusion

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

CO2

Dry extinguisher

Foam

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

Oxides of nitrogen

Peroxides

Toxic gases

Danger of bursting (explosion) when heated

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

#### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

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

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

##### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid inhalation, and contact with eyes or skin.

##### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

#### **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.

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.

Active substance:

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

## 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
 Avoid breathing vapours or spray.  
 Avoid contact with eyes or skin.  
 Keep away from sources of ignition - Do not smoke.  
 Take measures against electrostatic charging, if appropriate.  
 Do not use on hot surfaces.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.  
 Not to be stored in gangways or stair wells.  
 Store product closed and only in original packing.  
 Do not store with flammable or self-igniting materials.  
 Observe special storage conditions.  
 Observe special regulations for aerosols!  
 Keep protected from direct sunlight and temperatures over 50°C.  
 Store in a well ventilated place.  
 Store cool.  
 Store in a dry place.

### 7.3 Specific end use(s)

No information available at present.  
 Observe the instructions for good working practice and the recommendations for risk assessment.  
 Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,  
 depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name                                            | Acetone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 500 ppm (1210 mg/m <sup>3</sup> ) (WEL-TWA, EU) | WEL-STEL: 1500 ppm (3620 mg/m <sup>3</sup> ) (WEL-STEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --- |
| Monitoring procedures:                                   | <ul style="list-style-type: none"> <li>- Draeger - Acetone 100/b (CH 22 901)</li> <li>- Draeger - Acetone 40/a (5) (81 03 381)</li> <li>- Compur - KITA-102 SA (548 534)</li> <li>- Compur - KITA-102 SC (548 550)</li> <li>- Compur - KITA-102 SD (551 109)</li> <li>- INSHT 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)</li> </ul> |     |

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- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993
- NIOSH 1300 (KETONES I) - 1994
  - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
  - NIOSH 2555 (KETONES I) - 2003
  - NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
  - OSHA 69 (Acetone) - 1988

BMGV: ---

Other information: ---

| Chemical Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Acetone                  |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
| OELV-8h: 500 ppm (1210 mg/m <sup>3</sup> ) (OELV-8h, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OELV-15min: ---          | --- |
| Monitoring procedures:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |     |
| <ul style="list-style-type: none"> <li>- Draeger - Acetone 100/b (CH 22 901)</li> <li>- Draeger - Acetone 40/a (5) (81 03 381)</li> <li>- Compur - KITA-102 SA (548 534)</li> <li>- Compur - KITA-102 SC (548 550)</li> <li>- Compur - KITA-102 SD (551 109)</li> <li>- INSHT 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)</li> <li>- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993</li> <li>- NIOSH 1300 (KETONES I) - 1994</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 2555 (KETONES I) - 2003</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA 69 (Acetone) - 1988</li> </ul> |                          |     |
| BLV: 50 mg/l (U, b) (ACGIH-BEI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Other information: IOELV |     |

| Chemical Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Acetone                |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|
| OELV-8h: 500 ppm (1210 mg/m <sup>3</sup> ) (OELV-8h, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OELV-ST: ---           | --- |
| Monitoring procedures:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |     |
| <ul style="list-style-type: none"> <li>- Draeger - Acetone 100/b (CH 22 901)</li> <li>- Draeger - Acetone 40/a (5) (81 03 381)</li> <li>- Compur - KITA-102 SA (548 534)</li> <li>- Compur - KITA-102 SC (548 550)</li> <li>- Compur - KITA-102 SD (551 109)</li> <li>- INSHT 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)</li> <li>- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993</li> <li>- NIOSH 1300 (KETONES I) - 1994</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 2555 (KETONES I) - 2003</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA 69 (Acetone) - 1988</li> </ul> |                        |     |
| BMGV: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Other information: --- |     |

| Chemical Name                                                                                                                                                                                                                                | n-butyl acetate                                                                              |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> ) (WEL-TWA), 50 ppm (241 mg/m <sup>3</sup> ) (EU)                                                                                                                                                    | WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> ) (WEL-STEL), 150 ppm (723 mg/m <sup>3</sup> ) (EU) | --- |
| Monitoring procedures:                                                                                                                                                                                                                       |                                                                                              |     |
| <ul style="list-style-type: none"> <li>- Compur - KITA-138 U (548 857)</li> <li>- Compur - KITA-139 SB(C) (549 731)</li> <li>- NIOSH 1450 (ESTERS 1) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> </ul> |                                                                                              |     |



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|                                                                                          |                        |
|------------------------------------------------------------------------------------------|------------------------|
| OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 |                        |
| BMGV: ---                                                                                | Other information: --- |

| Chemical Name                             | n-butyl acetate                                                                                                                                                                                                                                                                                                                            |     |  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) | OELV-15min: 150 ppm (723 mg/m3) (OELV-15min, EU)                                                                                                                                                                                                                                                                                           | --- |  |
| Monitoring procedures:                    | <ul style="list-style-type: none"><li>- Compur - KITA-138 U (548 857)</li><li>- Compur - KITA-139 SB(C) (549 731)</li><li>- NIOSH 1450 (ESTERS 1) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007</li></ul> |     |  |
| BLV: ---                                  | Other information: ---                                                                                                                                                                                                                                                                                                                     |     |  |

| Chemical Name                             |                                                                                                                                                                                                                                                                                                                                            | n-butyl acetate |  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) | OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)                                                                                                                                                                                                                                                                                                 | ---             |  |
| Monitoring procedures:                    | <ul style="list-style-type: none"><li>- Compur - KITA-138 U (548 857)</li><li>- Compur - KITA-139 SB(C) (549 731)</li><li>- NIOSH 1450 (ESTERS 1) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007</li></ul> |                 |  |
| BMGV: ---                                 | Other information: ---                                                                                                                                                                                                                                                                                                                     |                 |  |

| CE                                                                | Chemical Name | 2-methoxy-1-methylethyl acetate                                                                                                                                                                                                                                                                                                     |     |
|-------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 50 ppm (274 mg/m3) (WEL-TWA),<br>50 ppm (275 mg/m3) (EU) |               | WEL-STEL: 100 ppm (548 mg/m3) (WEL-STEL),<br>100 ppm (550 mg/m3) (EU)                                                                                                                                                                                                                                                               | --- |
| Monitoring procedures:                                            |               | INSHT MTA/MA-024/A92 (Determination of esters II (1-methoxy-2-propyl acetate, 2-ethoxyethyl acetate) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 15-1<br>- (2004)<br>- NIOSH 2554 (GLYCOL ETHERS) - 2003<br>- OSHA 99 (Propylene Glycol Monomethyl Ethers/Acetates) - 1993 |     |
| BMGV: ---                                                         |               | Other information: Sk (WEL)                                                                                                                                                                                                                                                                                                         |     |

| Chemical Name                             | 2-methoxy-1-methylethyl acetate                                                                                                                                                                                                                                                                                                     |     |  |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| OELV-8h: 50 ppm (275 mg/m3) (OELV-8h, EU) | OELV-15min: 100 ppm (550 mg/m3) (OELV-15min, EU)                                                                                                                                                                                                                                                                                    | --- |  |
| Monitoring procedures:                    | INSHT MTA/MA-024/A92 (Determination of esters II (1-methoxy-2-propyl acetate, 2-ethoxyethyl acetate) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 15-1<br>- (2004)<br>- NIOSH 2554 (GLYCOL ETHERS) - 2003<br>- OSHA 99 (Propylene Glycol Monomethyl Ethers/Acetates) - 1993 |     |  |
| BLV: ---                                  | Other information: Sk, IOELV                                                                                                                                                                                                                                                                                                        |     |  |

| Chemical Name                             |                                            | 2-methoxy-1-methylethyl acetate                                                                                                                                                                                                                                                                                                     |  |
|-------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| OELV-8h: 50 ppm (275 mg/m3) (OELV-8h, EU) | OELV-ST: 100 ppm (550 mg/m3) (OELV-ST, EU) | ---                                                                                                                                                                                                                                                                                                                                 |  |
| Monitoring procedures:                    |                                            | INSHT MTA/MA-024/A92 (Determination of esters II (1-methoxy-2-propyl acetate, 2-ethoxyethyl acetate) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 15-1<br>- (2004)<br>- NIOSH 2554 (GLYCOL ETHERS) - 2003<br>- OSHA 99 (Propylene Glycol Monomethyl Ethers/Acetates) - 1993 |  |
| BMGV: ---                                 |                                            | Other information: Skin                                                                                                                                                                                                                                                                                                             |  |

| Chemical Name                                                  | Xylene                                                                                                                                                                |     |  |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| WEL-TWA: 220 mg/m3 (50 ppm) (WEL-TWA), 50 ppm (221 mg/m3) (EU) | WEL-STEL: 100 ppm (441 mg/m3 (WEL-STEL), 100 ppm (442 mg/m3) (EU)                                                                                                     | --- |  |
| Monitoring procedures:                                         | <ul style="list-style-type: none"><li>- Draeger - Xylene 10/a (67 33 161)</li><li>- Compur - KITA-143 SA (550 325)</li><li>- Compur - KITA-143 SB (505 998)</li></ul> |     |  |



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INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 47-1 (2004)  
 - NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003  
 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996  
 - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999

BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift  
 (Xylene, o-, m-, p- or mixed isomers) (BMGV)

Other information: Sk (WEL)

| Chemical Name                             | Xylene                                           |
|-------------------------------------------|--------------------------------------------------|
| OELV-8h: 50 ppm (221 mg/m3) (OELV-8h, EU) | OELV-15min: 100 ppm (442 mg/m3) (OELV-15min, EU) |

Monitoring procedures:

- Draeger - Xylene 10/a (67 33 161)
- Compur - KITA-143 SA (550 325)
- Compur - KITA-143 SB (505 998)
- INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 47-1 (2004)
- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999

BLV: 1,5 g/g creatine (Methylhippuric acids in urine, end of shift) (ACGIH-BEI)

Other information: Sk

| Chemical Name                             | Xylene                                     |
|-------------------------------------------|--------------------------------------------|
| OELV-8h: 50 ppm (221 mg/m3) (OELV-8h, EU) | OELV-ST: 100 ppm (442 mg/m3) (OELV-ST, EU) |

Monitoring procedures:

- Draeger - Xylene 10/a (67 33 161)
- Compur - KITA-143 SA (550 325)
- Compur - KITA-143 SB (505 998)
- INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 47-1 (2004)
- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999

BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift  
 (Xylene, o-, m-, p- or mixed isomers) (BMGV)

Other information: Skin

| Chemical Name | Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) |
|---------------|----------------------------------------------------------------------------------------------------------|
|---------------|----------------------------------------------------------------------------------------------------------|

WEL-TWA: 10 mg/m3 (total inhalable dust), 4 mg/m3 (respirable dust)

WEL-STEL: ---

---

Monitoring procedures:

---

BMGV: ---

Other information: ---

| Chemical Name | Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) |
|---------------|----------------------------------------------------------------------------------------------------------|
|---------------|----------------------------------------------------------------------------------------------------------|

OELV-8h: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust)

OELV-15min: ---

---

Monitoring procedures:

---

BLV: ---

Other information: ---

| Chemical Name | Ethanol |
|---------------|---------|
|---------------|---------|

WEL-TWA: 1000 ppm (1920 mg/m3)

WEL-STEL: ---

---

Monitoring procedures:

- Draeger - Alcohol 25/a Ethanol (81 01 631)
- Compur - KITA-104 SA (549 210)
- DFG (D) (Lösungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)
- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)

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|                                                                                                               |                        |
|---------------------------------------------------------------------------------------------------------------|------------------------|
| DFG Meth. Nr. 3 (D) (Lösungsmittelgemische) - 2013 - EU project<br>- BC/CEN/ENTR/000/2002-16 card 63-2 (2004) |                        |
| BMGV: ---                                                                                                     | Other information: --- |

| Chemical Name          | Ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OELV-8h: 1000 ppm      | OELV-15min: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a Ethanol (81 01 631)</li> <li>- Compur - KITA-104 SA (549 210)</li> <li>- DFG (D) (Lösungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)</li> <li>- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)</li> <li>- DFG Meth. Nr. 3 (D) (Lösungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)</li> </ul> |
| BLV: ---               | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Chemical Name                                           | Butanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEL-TWA: 200 ppm (600 mg/m3) (WEL-TWA, EU)              | WEL-STEL: 300 ppm (899 mg/m3) (WEL-STEL), 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>- DFG Meth.-Nr. 4 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015, 2002</li> <li>- INSHT 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>- NIOSH 2500 (METHYL ETHYL KETONE) - 1996</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 2555 (KETONES I) - 2003</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000</li> </ul> |
| BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) | Other information: Sk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Chemical Name                                          | Butanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU)             | OELV-15min: 300 ppm (900 mg/m3) (OELV-15min, 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>- DFG Meth.-Nr. 4 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015, 2002</li> <li>- INSHT 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>- NIOSH 2500 (METHYL ETHYL KETONE) - 1996</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 2555 (KETONES I) - 2003</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000</li> </ul> |
| BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) | Other information: Sk, IOELV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Chemical Name                              | Butanone                                                                              |
|--------------------------------------------|---------------------------------------------------------------------------------------|
| OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) | OELV-ST: 300 ppm (900 mg/m3) (OELV-ST, EU)                                            |
| Monitoring procedures:                     | <ul style="list-style-type: none"> <li>- Compur - KITA-122 SA(C) (549 277)</li> </ul> |

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- Compur - KITA-139 SB (549 731)
- Compur - KITA-139 U (549 749)
- DFG Meth.-Nr. 4 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015, 2002
- INSHT 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)
- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993
- NIOSH 2500 (METHYL ETHYL KETONE) - 1996
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- NIOSH 2555 (KETONES I) - 2003
- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
- OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000

BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV)

Other information: ---

**Chemical Name** Butane

WEL-TWA: 600 ppm (1450 mg/m3)

WEL-STEL: 750 ppm (1810 mg/m3)

---

Monitoring procedures:

- Compur - KITA-221 SA (549 459)
- OSHA PV2010 (n-Butane) - 1993

BMGV: ---

Other information: ---

**Chemical Name** Butane

OELV-8h: ---

OELV-15min: 1000 ppm

---

Monitoring procedures:

- Compur - KITA-221 SA (549 459)
- OSHA PV2010 (n-Butane) - 1993

BLV: ---

Other information: ---

**Chemical Name** Propane

WEL-TWA: 1000 ppm (ACGIH)

WEL-STEL: ---

---

Monitoring procedures:

- Compur - KITA-125 SA (549 954)
- OSHA PV2077 (Propane) - 1990

BMGV: ---

Other information: ---

**Chemical Name** Isobutane

WEL-TWA: 1000 ppm (EX) (ACGIH)

WEL-STEL: ---

---

Monitoring procedures:

- Compur - KITA-113 SB(C) (549 368)

BMGV: ---

Other information: ---

**Chemical Name** Isobutane

OELV-8h: ---

OELV-15min: 1000 ppm

---

Monitoring procedures:

- Compur - KITA-113 SB(C) (549 368)

BLV: ---

Other information: ---

**Acetone**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit     | Note                  |
|---------------------|--------------------------------------------|------------------|------------|-------|----------|-----------------------|
|                     | Environment - marine                       |                  | PNEC       | 1,06  | mg/l     | Assessment factor 500 |
|                     | Environment - freshwater                   |                  | PNEC       | 10,6  | mg/l     | Assessment factor 50  |
|                     | Environment - sediment, freshwater         |                  | PNEC       | 30,4  | mg/kg dw |                       |
|                     | Environment - sediment, marine             |                  | PNEC       | 3,04  | mg/kg dw |                       |
|                     | Environment - soil                         |                  | PNEC       | 29,5  | mg/kg dw |                       |
|                     | Environment - sewage treatment plant       |                  | PNEC       | 19,5  | mg/l     |                       |

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|                     |                                               |                             |      |      |              |                              |
|---------------------|-----------------------------------------------|-----------------------------|------|------|--------------|------------------------------|
|                     | Environment - sporadic (intermittent) release |                             | PNEC | 21   | mg/l         | Assessment factor 100        |
| Consumer            | Human - oral                                  | Long term, systemic effects | DNEL | 62   | mg/kg bw/day | Overall assessment factor 2  |
| Consumer            | Human - dermal                                | Long term, systemic effects | DNEL | 62   | mg/kg bw/day | Overall assessment factor 20 |
| Consumer            | Human - inhalation                            | Long term, systemic effects | DNEL | 200  | mg/m3        | Overall assessment 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/m3        |                              |
| Workers / employees | Human - inhalation                            | Long term, systemic effects | DNEL | 1210 | 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       | 3,4    | mg/kg        |      |
| Consumer            | Human - inhalation                         | Short term, systemic effects | DNEL       | 300    | mg/m3        |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects  | DNEL       | 35,7   | mg/m3        |      |
| Consumer            | Human - inhalation                         | Short term, local effects    | DNEL       | 300    | mg/m3        |      |
| Consumer            | Human - inhalation                         | Long term, local effects     | DNEL       | 35,7   | mg/m3        |      |
| 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/m3        |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects  | DNEL       | 300    | mg/m3        |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects  | DNEL       | 7      | 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/m3        |      |

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|                     |                    |                          |      |     |       |  |
|---------------------|--------------------|--------------------------|------|-----|-------|--|
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 300 | mg/m3 |  |
|---------------------|--------------------|--------------------------|------|-----|-------|--|

| 2-methoxy-1-methylethyl acetate |                                                      |                              |            |        |              |      |
|---------------------------------|------------------------------------------------------|------------------------------|------------|--------|--------------|------|
| Area of application             | Exposure route / Environmental compartment           | Effect on health             | Descriptor | Value  | Unit         | Note |
|                                 | Environment - freshwater                             |                              | PNEC       | 0,635  | mg/l         |      |
|                                 | Environment - sediment, freshwater                   |                              | PNEC       | 3,29   | mg/kg dw     |      |
|                                 | Environment - sediment, marine                       |                              | PNEC       | 0,329  | mg/kg dw     |      |
|                                 | Environment - soil                                   |                              | PNEC       | 0,29   | mg/kg dw     |      |
|                                 | Environment - sewage treatment plant                 |                              | PNEC       | 100    | mg/l         |      |
|                                 | Environment - marine                                 |                              | PNEC       | 0,0635 | mg/l         |      |
|                                 | Environment - water, sporadic (intermittent) release |                              | PNEC       | 6,35   | mg/l         |      |
| Consumer                        | Human - oral                                         | Short term, systemic effects | DNEL       | 500    | mg/kg bw/day |      |
| Consumer                        | Human - inhalation                                   | Long term, systemic effects  | DNEL       | 33     | mg/m3        |      |
| Consumer                        | Human - dermal                                       | Long term, systemic effects  | DNEL       | 320    | mg/kg bw/day |      |
| Consumer                        | Human - oral                                         | Long term, systemic effects  | DNEL       | 36     | mg/kg bw/day |      |
| Workers / employees             | Human - dermal                                       | Long term, systemic effects  | DNEL       | 796    | mg/kg bw/day |      |
| Workers / employees             | Human - inhalation                                   | Long term, systemic effects  | DNEL       | 275    | mg/m3        |      |
| Workers / employees             | Human - inhalation                                   | Short term, local effects    | DNEL       | 550    | mg/m3        |      |

| Xylene              |                                                      |                              |            |       |          |      |
|---------------------|------------------------------------------------------|------------------------------|------------|-------|----------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health             | Descriptor | Value | Unit     | Note |
|                     | Environment - periodic release                       |                              | PNEC       | 0,327 | mg/l     |      |
|                     | Environment - sewage treatment plant                 |                              | PNEC       | 6,58  | mg/l     |      |
|                     | Environment - freshwater                             |                              | PNEC       | 0,327 | mg/l     |      |
|                     | Environment - marine                                 |                              | PNEC       | 0,327 | mg/l     |      |
|                     | Environment - sediment, freshwater                   |                              | PNEC       | 12,46 | mg/kg dw |      |
|                     | Environment - sediment, marine                       |                              | PNEC       | 12,46 | mg/kg dw |      |
|                     | Environment - soil                                   |                              | PNEC       | 2,31  | mg/kg dw |      |
|                     | Environment - water, sporadic (intermittent) release |                              | PNEC       | 0,327 | mg/l     |      |
| Consumer            | Human - inhalation                                   | Short term, local effects    | DNEL       | 174   | mg/m3    |      |
| Consumer            | Human - inhalation                                   | Short term, systemic effects | DNEL       | 174   | mg/m3    |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects  | DNEL       | 14,8  | mg/m3    |      |

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|                     |                    |                              |      |      |              |  |
|---------------------|--------------------|------------------------------|------|------|--------------|--|
| Consumer            | Human - dermal     | Long term, systemic effects  | DNEL | 108  | mg/kg bw/day |  |
| Consumer            | Human - oral       | Long term, systemic effects  | DNEL | 1,6  | mg/kg bw/day |  |
| Consumer            | Human - inhalation | Long term, local effects     | DNEL | 65,3 | mg/m3        |  |
| Workers / employees | Human - inhalation | Short term, local effects    | DNEL | 289  | mg/m3        |  |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 289  | mg/m3        |  |
| Workers / employees | Human - inhalation | Long term, systemic effects  | DNEL | 77   | mg/m3        |  |
| Workers / employees | Human - dermal     | Long term, systemic effects  | DNEL | 180  | mg/kg bw/day |  |
| Workers / employees | Human - inhalation | Long term, local effects     | DNEL | 221  | mg/m3        |  |

**Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ )**

| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value  | Unit       | Note |
|---------------------|------------------------------------------------------|-----------------------------|------------|--------|------------|------|
|                     | Environment - freshwater                             |                             | PNEC       | 0,184  | mg/l       |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,0184 | mg/l       |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 0,193  | mg/l       |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 100    | mg/l       |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 1000   | mg/kg dw   |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 100    | mg/kg dw   |      |
|                     | Environment - soil                                   |                             | PNEC       | 100    | mg/kg dw   |      |
|                     | Environment - oral (animal feed)                     |                             | PNEC       | 1667   | mg/kg feed |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 700    | mg/kg bw/d |      |
| Workers / employees | Human - inhalation                                   | Long term, local effects    | DNEL       | 10     | mg/m3      |      |

**Ethanol**

| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit             | Note |
|---------------------|------------------------------------------------------|------------------|------------|-------|------------------|------|
|                     | Environment - freshwater                             |                  | PNEC       | 0,96  | mg/l             |      |
|                     | Environment - marine                                 |                  | PNEC       | 0,79  | mg/l             |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 2,75  | mg/l             |      |
|                     | Environment - sewage treatment plant                 |                  | PNEC       | 580   | mg/l             |      |
|                     | Environment - sediment, freshwater                   |                  | PNEC       | 3,6   | mg/kg dry weight |      |
|                     | Environment - soil                                   |                  | PNEC       | 0,63  | mg/kg dry weight |      |
|                     | Environment - oral (animal feed)                     |                  | PNEC       | 0,38  | g/kg feed        |      |



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|                     |                                |                             |      |      |                  |  |
|---------------------|--------------------------------|-----------------------------|------|------|------------------|--|
|                     | Environment - sediment, marine |                             | PNEC | 2,9  | mg/kg dry weight |  |
| Consumer            | Human - dermal                 | Short term, local effects   | DNEL | 950  | mg/m3            |  |
| Consumer            | Human - inhalation             | Long term, systemic effects | DNEL | 114  | mg/m3            |  |
| Consumer            | Human - oral                   | Long term, systemic effects | DNEL | 87   | mg/kg            |  |
| Consumer            | Human - dermal                 | Long term, systemic effects | DNEL | 206  | mg/kg bw/d       |  |
| Consumer            | Human - inhalation             | Short term, local effects   | DNEL | 950  | mg/m3            |  |
| Workers / employees | Human - dermal                 | Long term, systemic effects | DNEL | 343  | mg/kg bw/d       |  |
| Workers / employees | Human - inhalation             | Long term, systemic effects | DNEL | 950  | mg/m3            |  |
| Workers / employees | Human - inhalation             | Short term, local effects   | DNEL | 1900 | mg/m3            |  |

| Butanone            |                                               |                  |            |        |              |                            |
|---------------------|-----------------------------------------------|------------------|------------|--------|--------------|----------------------------|
| 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 dw     |                            |
|                     | Environment - sediment, marine                |                  | PNEC       | 284,7  | mg/kg dw     |                            |
|                     | Environment - soil                            |                  | PNEC       | 22,5   | mg/kg dw     |                            |
|                     | 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 bw/day | Overall assesment factor 2 |
| Consumer            | Human - inhalation                            | Long term        | DNEL       | 106    | mg/m3        | Overall assesment factor 2 |
| Consumer            | Human - oral                                  | Long term        | DNEL       | 31     | mg/kg bw/day | Overall assesment factor 2 |
| Workers / employees | Human - dermal                                | Long term        | DNEL       | 1161   | mg/kg bw/day |                            |
| Workers / employees | Human - inhalation                            | Long term        | DNEL       | 600    | mg/m3        |                            |

| Glycolic acid n-butyl ester |                                            |                  |            |       |          |      |
|-----------------------------|--------------------------------------------|------------------|------------|-------|----------|------|
| Area of application         | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit     | Note |
|                             | Environment - freshwater                   |                  | PNEC       | 0,023 | mg/l     |      |
|                             | Environment - soil                         |                  | PNEC       | 0,005 | mg/kg dw |      |
|                             | Environment - sediment, freshwater         |                  | PNEC       | 0,094 | mg/kg dw |      |

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|                     |                                                      |                             |      |       |            |  |
|---------------------|------------------------------------------------------|-----------------------------|------|-------|------------|--|
|                     | Environment - sewage treatment plant                 |                             | PNEC | 3,71  | mg/l       |  |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC | 0,5   | mg/l       |  |
|                     | Environment - marine                                 |                             | PNEC | 0,002 | mg/l       |  |
|                     | Environment - sediment, marine                       |                             | PNEC | 0,009 | mg/kg dw   |  |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL | 2     | mg/kg bw/d |  |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL | 20,8  | mg/kg bw/d |  |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL | 43,5  | mg/m3      |  |
| Consumer            | Human - dermal                                       | Long term, local effects    | DNEL | 0,28  | mg/cm2     |  |
| Consumer            | Human - inhalation                                   | Long term, local effects    | DNEL | 43,5  | mg/m3      |  |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL | 10    | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL | 7,05  | mg/m3      |  |

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). |

IRL - Ireland/Éire | OELV-8h = Occupational Exposure Limit Value - 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
 | OELV-15min = Occupational Exposure Limit Value - 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 | BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)): ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and

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Safety Executive (HSE), UK.

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). |

**M** - Malta | OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average) [S.L.424.24, last amended by L.N. 356 of 2021]: [9] = Inhalable fraction, [10] = Respirable fraction.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
 | OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period) [S.L.424.24, last amended by L.N. 356 of 2021]: [8] = Short-term exposure limit value in relation to a reference period of 1 minute, [9] = Inhalable fraction, [10] = Respirable fraction.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020), United Kingdom).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information [S.L.424.24, last amended by L.N. 356 of 2021]: Skin = Possibility of a significant uptake through the skin. [11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. [12] = The mist is defined as the thoracic fraction. [13] = Established in accordance with the Annex to Directive 91/322/EEC. [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (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 ISO 374).

Recommended

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Protective nitrile gloves (EN ISO 374).  
 With short-term contact:  
 Protective gloves in butyl rubber (EN ISO 374).  
 Minimum layer thickness in mm:  
 0,7  
 Permeation time (penetration time) in minutes:  
 max. 15  
 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 A P2 (EN 14387), code colour brown, white  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 Not applicable

Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Aerosol. Active substance: liquid.                   |
| Colour:                                                   | According to specification                           |
| Odour:                                                    | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | n.a.                                                 |
| Flammability:                                             | Does not apply to aerosols.                          |
| Lower explosion limit:                                    | 1,7 Vol-%                                            |
| Upper explosion limit:                                    | 13 Vol-%                                             |
| Flash point:                                              | <0 °C (Active substance )                            |
| Auto-ignition temperature:                                | 460 °C (Isobutane)                                   |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                                      | Does not apply to aerosols.                          |
| Solubility:                                               | Not miscible                                         |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:                                          | 3600 hPa (20°C)                                      |
| Density and/or relative density:                          | Does not apply to aerosols.                          |
| Relative vapour density:                                  | Does not apply to aerosols.                          |
| Particle characteristics:                                 | Does not apply to aerosols.                          |

### 9.2 Other information

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| Explosives:        | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Oxidising liquids: | There is no information available on this parameter.                                        |

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Solvents content: 85,58 % (Organic solvents )

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

Electrostatic charge

### 10.5 Incompatible materials

Avoid contact with strong acids.

Avoid contact with strong alkalis.

Avoid contact with oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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:                              | ATE      | >2000 | mg/kg   |          |             | calculated value          |
| Acute toxicity, by inhalation:                                | ATE      | >20   | mg/l/4h |          |             | Vapours, calculated value |
| Acute toxicity, by inhalation:                                | ATE      | >5    | mg/l/4h |          |             | Aerosol, calculated value |
| Skin corrosion/irritation:                                    |          |       |         |          |             | n.d.a.                    |
| Serious eye damage/irritation:                                |          |       |         |          |             | n.d.a.                    |
| Respiratory or skin sensitisation:                            |          |       |         |          |             | n.d.a.                    |
| Germ cell mutagenicity:                                       |          |       |         |          |             | n.d.a.                    |
| Carcinogenicity:                                              |          |       |         |          |             | n.d.a.                    |
| Reproductive toxicity:                                        |          |       |         |          |             | n.d.a.                    |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |         |          |             | n.d.a.                    |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |         |          |             | n.d.a.                    |
| Aspiration hazard:                                            |          |       |         |          |             | n.d.a.                    |
| Symptoms:                                                     |          |       |         |          |             | n.d.a.                    |

#### 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      |                                |       |

|                                                                                                                                                                                                                                                                                                   |                 |              |             |                        |                                                                |                                                                                                                                         |
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| Skin corrosion/irritation:                                                                                                                                                                                                                                                                        |                 |              |             | Guinea pig             |                                                                | Not irritant,<br>Repeated exposure may cause skin dryness or cracking.                                                                  |
| Serious eye damage/irritation:                                                                                                                                                                                                                                                                    |                 |              |             | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                      | Eye Irrit. 2                                                                                                                            |
| Respiratory or skin sensitisation:                                                                                                                                                                                                                                                                |                 |              |             | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | Not sensitising                                                                                                                         |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                                                                                                                |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                                                                                                                                |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative                                                                                                                                |
| Carcinogenicity:                                                                                                                                                                                                                                                                                  |                 |              |             | Mouse                  |                                                                | Negative, References                                                                                                                    |
| Specific target organ toxicity - single exposure (STOT-SE):                                                                                                                                                                                                                                       |                 |              |             |                        |                                                                | STOT SE 3, H336                                                                                                                         |
| Reproductive toxicity (Developmental toxicity):                                                                                                                                                                                                                                                   |                 |              |             | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative                                                                                                                                |
| Symptoms:                                                                                                                                                                                                                                                                                         |                 |              |             |                        |                                                                | unconsciousness, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:                                                                                                                                                                                                                               | NOAEL           | 900          | mg/kg bw/d  | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                                                                         |
| <b>n-butyl acetate</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 oral route:                                                                                                                                                                                                                                                                    | LD50            | 10760-13100  | 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)                               |                                                                                                                                         |
| Acute toxicity, by inhalation:                                                                                                                                                                                                                                                                    | LC50            | >21,1        | mg/l/4h     | Rat                    | OECD 403 (Acute Inhalation Toxicity)                           | Vapours                                                                                                                                 |
| 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                                                                                                                            |



|                                                                                                                                                                                                                                                                                                   |       |      |       |                        |                                                       |                                                                                                                 |
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| Respiratory or skin sensitisation:                                                                                                                                                                                                                                                                |       |      |       | Guinea pig             | OECD 406 (Skin Sensitisation)                         | No (skin contact)                                                                                               |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |       |      |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)            | Negative                                                                                                        |
| Reproductive toxicity:                                                                                                                                                                                                                                                                            | NOAEC | 9640 | mg/m3 |                        | OECD 416 (Two-generation Reproduction Toxicity Study) | 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. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:                                                                                                                                                                                                                           | NOAEC | 500  | ppm   | Rat                    |                                                       |                                                                                                                 |

| 2-methoxy-1-methylethyl acetate    |          |       |         |            |                                              |                                                                                                                       |
|------------------------------------|----------|-------|---------|------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism   | Test method                                  | Notes                                                                                                                 |
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg   | Rabbit     | OECD 401 (Acute Oral Toxicity)               |                                                                                                                       |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg   | Rat        | OECD 402 (Acute Dermal Toxicity)             |                                                                                                                       |
| Acute toxicity, by inhalation:     | LC50     | 35,7  | mg/l/4h | Rat        |                                              | Vapours                                                                                                               |
| Acute toxicity, by inhalation:     | LC50     | >23,8 | mg/l/6h | Rat        |                                              |                                                                                                                       |
| Skin corrosion/irritation:         |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant                                                                                                          |
| Serious eye damage/irritation:     |          |       |         | Rabbit     |                                              | Mild irritant                                                                                                         |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                | No (skin contact)                                                                                                     |
| Germ cell mutagenicity:            |          |       |         |            | OECD 471 (Bacterial Reverse Mutation Test)   | No indications of such an effect.                                                                                     |
| Symptoms:                          |          |       |         |            |                                              | respiratory distress, drowsiness, unconsciousness, vomiting, headaches, mucous membrane irritation, dizziness, nausea |

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| Xylene |
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| Toxicity / effect                  | Endpoint | Value | Unit    | Organism | Test method                                                | Notes                                                                                                                                                                                                                                                        |
|------------------------------------|----------|-------|---------|----------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity, by oral route:     | LD50     | 3523  | mg/kg   | Rat      | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)         |                                                                                                                                                                                                                                                              |
| Acute toxicity, by dermal route:   | LD50     | 12126 | mg/kg   | Rabbit   |                                                            | Does not conform with EU classification.                                                                                                                                                                                                                     |
| Acute toxicity, by dermal route:   | ATE      | 1100  | mg/kg   |          |                                                            |                                                                                                                                                                                                                                                              |
| Acute toxicity, by inhalation:     | ATE      | 11    | mg/l/4h |          |                                                            | Vapours                                                                                                                                                                                                                                                      |
| Acute toxicity, by inhalation:     | ATE      | 1,5   | mg/l/4h |          |                                                            | Dusts or mist                                                                                                                                                                                                                                                |
| Acute toxicity, by inhalation:     | LC50     | 29,09 | mg/l/4h | Rat      | Regulation (EC) 440/2008 B.2 (ACUTE TOXICITY (INHALATION)) | Vapours, Does not conform with EU classification.                                                                                                                                                                                                            |
| Skin corrosion/irritation:         |          |       |         | Rabbit   | (Draize-Test)                                              | Irritant                                                                                                                                                                                                                                                     |
| Serious eye damage/irritation:     |          |       |         | Rabbit   |                                                            | Irritant                                                                                                                                                                                                                                                     |
| Respiratory or skin sensitisation: |          |       |         | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)     | No (skin contact)                                                                                                                                                                                                                                            |
| Carcinogenicity:                   |          |       |         | Mouse    | Regulation (EC) 440/2008 B.32 (CARCINOGENICITY TEST)       | Negative                                                                                                                                                                                                                                                     |
| Symptoms:                          |          |       |         |          |                                                            | breathing difficulties, drying of the skin., drowsiness, unconsciousness, burning of the membranes of the nose and throat, skin afflictions, heart/circulatory disorders, coughing, headaches, drowsiness, dizziness, nausea and vomiting., lack of appetite |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) |          |       |         |          |                                                        |              |
|----------------------------------------------------------------------------------------------------------|----------|-------|---------|----------|--------------------------------------------------------|--------------|
| Toxicity / effect                                                                                        | Endpoint | Value | Unit    | Organism | Test method                                            | Notes        |
| Acute toxicity, by oral route:                                                                           | LD50     | >5000 | mg/kg   | Rat      | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) |              |
| Acute toxicity, by dermal route:                                                                         | LD50     | >5000 | mg/kg   | Rabbit   |                                                        |              |
| Acute toxicity, by inhalation:                                                                           | LC50     | >6,8  | mg/l/4h | Rat      |                                                        |              |
| Skin corrosion/irritation:                                                                               |          |       |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Not irritant |

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| Serious eye damage/irritation:                                          |       |      |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant, Mechanical irritation possible.                                   |
| Respiratory or skin sensitisation:                                      |       |      |         | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)   | Not sensitizing                                                                 |
| Respiratory or skin sensitisation:                                      |       |      |         | Guinea pig             | OECD 406 (Skin Sensitisation)                            | No (skin contact)                                                               |
| Germ cell mutagenicity:                                                 |       |      |         | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         | Salmonella typhimurium | (Ames-Test)                                              | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         |                        | OECD 471 (Bacterial Reverse Mutation Test)               | Negative                                                                        |
| Reproductive toxicity (Developmental toxicity):                         |       |      |         | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)         | No indications of such an effect.                                               |
| Specific target organ toxicity - single exposure (STOT-SE):             |       |      |         |                        |                                                          | Not irritant (respiratory tract).                                               |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 3500 | mg/kg/d | Rat                    |                                                          | (90d)                                                                           |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10   | mg/m3   | Rat                    |                                                          | (90d)                                                                           |
| Symptoms:                                                               |       |      |         |                        |                                                          | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |

| Ethanol                          |          |          |         |          |                                              |              |
|----------------------------------|----------|----------|---------|----------|----------------------------------------------|--------------|
| Toxicity / effect                | Endpoint | Value    | Unit    | Organism | Test method                                  | Notes        |
| Acute toxicity, by oral route:   | LD50     | 10470    | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)               |              |
| Acute toxicity, by dermal route: | LD50     | >2000    | mg/kg   | Rabbit   | OECD 402 (Acute Dermal Toxicity)             |              |
| Acute toxicity, by inhalation:   | LC50     | 51-124,7 | mg/l/4h | Rat      | OECD 403 (Acute Inhalation Toxicity)         | Vapours      |
| Skin corrosion/irritation:       |          |          |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation:   |          |          |         | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Irrit. 2 |

|                                                                                                                                                                                                                                                                                                   |                 |              |             |                        |                                                                |                                                                                                                                                                                   |
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| Respiratory or skin sensitisation:                                                                                                                                                                                                                                                                |                 |              |             | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)         | No (skin contact)                                                                                                                                                                 |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                                                                                                                                                                          |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                                                                                                                                                          |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative                                                                                                                                                                          |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             |                        | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)    | Negative                                                                                                                                                                          |
| Carcinogenicity:                                                                                                                                                                                                                                                                                  | NOAEL           | >3000        | mg/kg       | Rat                    | OECD 451 (Carcinogenicity Studies)                             | 24 mon                                                                                                                                                                            |
| Reproductive toxicity:                                                                                                                                                                                                                                                                            | NOAEL           | 5200         | mg/kg bw/d  | Rat                    | OECD 416 (Two-generation Reproduction Toxicity Study)          |                                                                                                                                                                                   |
| Specific target organ toxicity - repeated exposure (STOT-RE):                                                                                                                                                                                                                                     | NOAL            | >20          | mg/l        | Rat                    | OECD 403 (Acute Inhalation Toxicity)                           | Male                                                                                                                                                                              |
| Specific target organ toxicity - repeated exposure (STOT-RE):                                                                                                                                                                                                                                     | NOAEL           | 1730         | mg/kg/d     | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Female                                                                                                                                                                            |
| Symptoms:                                                                                                                                                                                                                                                                                         |                 |              |             |                        |                                                                | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |
| <b>Butanone</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 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                 | OECD 402 (Acute Dermal Toxicity)                               |                                                                                                                                                                                   |
| Acute toxicity, by inhalation:                                                                                                                                                                                                                                                                    | LC50            | 34-34,5      | mg/l/4h     | Rat                    |                                                                |                                                                                                                                                                                   |

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|-------------------------------------------------------------------------|-------|------|----------|------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation:                                              |       |      |          | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant, Repeated exposure may cause skin dryness or cracking.                                                                                                                                                      |
| Serious eye damage/irritation:                                          |       |      |          | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                | Eye Irrit. 2                                                                                                                                                                                                             |
| Respiratory or skin sensitisation:                                      |       |      |          | Guinea pig             | OECD 406 (Skin Sensitisation)                            | Not sensitising                                                                                                                                                                                                          |
| Germ cell mutagenicity:                                                 |       |      |          | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)               | Negative                                                                                                                                                                                                                 |
| Germ cell mutagenicity:                                                 |       |      |          | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative                                                                                                                                                                                                                 |
| Germ cell mutagenicity:                                                 |       |      |          | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative                                                                                                                                                                                                                 |
| Specific target organ toxicity - single exposure (STOT-SE):             |       |      |          |                        |                                                          | STOT SE 3, H336, May cause drowsiness or dizziness.                                                                                                                                                                      |
| Reproductive toxicity (Developmental toxicity):                         | NOAEC | 1002 | ppm      | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)         | Negative                                                                                                                                                                                                                 |
| Symptoms:                                                               |       |      |          |                        |                                                          | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., mental confusion, fatigue |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 5041 | ppm/6h/d | Rat                    | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours, Negative                                                                                                                                                                                                        |

**Glycolic acid n-butyl ester**

| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method                          | Notes |
|--------------------------------|----------|-------|---------|----------|--------------------------------------|-------|
| Acute toxicity, by oral route: | LD50     | 4595  | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)       |       |
| Acute toxicity, by inhalation: | LC50     | > 6,2 | mg/l/4h | Rat      |                                      |       |
| Acute toxicity, by inhalation: | LC50     | > 6,2 | mg/l/4h | Rat      | OECD 403 (Acute Inhalation Toxicity) |       |

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|-------------------------------------------------|-------|------|------------|------------|----------------------------------------------------------|---------------------------------|
| Skin corrosion/irritation:                      |       |      |            | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant                    |
| Serious eye damage/irritation:                  |       |      |            | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation:              |       |      |            | Guinea pig | OECD 406 (Skin Sensitisation)                            | Not sensitising                 |
| 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:                         |       |      |            | Mouse      | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative                        |
| Reproductive toxicity:                          | NOAEL | 250  | mg/kg bw/d | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)         |                                 |
| Reproductive toxicity (Developmental toxicity): | NOAEL | 1250 | mg/kg bw/d | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)         | Female                          |
| Aspiration hazard:                              |       |      |            |            |                                                          | No                              |

| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) |          |       |       |                        |                                            |                               |
|-------------------------------------------------------------------------|----------|-------|-------|------------------------|--------------------------------------------|-------------------------------|
| Toxicity / effect                                                       | Endpoint | Value | Unit  | Organism               | Test method                                | Notes                         |
| Acute toxicity, by dermal route:                                        | LD50     | >2000 | mg/kg | Rat                    | OECD 402 (Acute Dermal Toxicity)           |                               |
| Serious eye damage/irritation:                                          |          |       |       | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)  | Eye Irrit. 2                  |
| Respiratory or skin sensitisation:                                      |          |       |       | Guinea pig             | OECD 406 (Skin Sensitisation)              | Negative                      |
| Germ cell mutagenicity:                                                 |          |       |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative                      |
| Symptoms:                                                               |          |       |       |                        |                                            | eyes, reddened, watering eyes |

| Butane                         |          |       |         |                        |                                                          |          |
|--------------------------------|----------|-------|---------|------------------------|----------------------------------------------------------|----------|
| Toxicity / effect              | Endpoint | Value | Unit    | Organism               | Test method                                              | Notes    |
| 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       |



|                                                                                                                                                                                                                                                                                                   |       |        |      |     |                                                                                                      |                                                                                                                                                                  |
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| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:                                                                                                                                                                                                                           | NOAEC | 21,394 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) |                                                                                                                                                                  |
| Symptoms:                                                                                                                                                                                                                                                                                         |       |        |      |     |                                                                                                      | ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |

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

|                                                                                                                                                                                                                                                                                                   |                 |              |             |                        |                                                                                                     |                                                                                |
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| 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/Development. Tox. Screening Test) |                                                                                |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:                                                                                                                                                                                                                           | LOAEL           | 21,641       | mg/l        | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) |                                                                                |
| <b>Isobutane</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                                                                   |
| Serious eye damage/irritation:                                                                                                                                                                                                                                                                    |                 |              |             | Rabbit                 |                                                                                                     | Not irritant                                                                   |
| Germ cell mutagenicity:                                                                                                                                                                                                                                                                           |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                                                          | Negative                                                                       |
| Aspiration hazard:                                                                                                                                                                                                                                                                                |                 |              |             |                        |                                                                                                     | No                                                                             |
| Symptoms:                                                                                                                                                                                                                                                                                         |                 |              |             |                        |                                                                                                     | unconsciousness, frostbite, headaches, cramps, 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) |                                                                                |
| <b>11.2. Information on other hazards</b>                                                                                                                                                                                                                                                         |                 |              |             |                        |                                                                                                     |                                                                                |
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| <b>Toxicity / effect</b>                                                                                                                                                                                                                                                                          | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>                                                                                  | <b>Notes</b>                                                                   |
| Endocrine disrupting properties:                                                                                                                                                                                                                                                                  |                 |              |             |                        |                                                                                                     | Does not apply to mixtures.                                                    |
| Other information:                                                                                                                                                                                                                                                                                |                 |              |             |                        |                                                                                                     | No other relevant information available on adverse effects on health.          |
| <b>n-butyl acetate</b>                                                                                                                                                                                                                                                                            |                 |              |             |                        |                                                                                                     |                                                                                |
| <b>Toxicity / effect</b>                                                                                                                                                                                                                                                                          | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>                                                                                  | <b>Notes</b>                                                                   |

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|                    |  |  |  |  |  |                                                       |
|--------------------|--|--|--|--|--|-------------------------------------------------------|
| Other information: |  |  |  |  |  | Repeated exposure may cause skin dryness or cracking. |
|--------------------|--|--|--|--|--|-------------------------------------------------------|

| Ethanol            |          |       |      |          |             |                                                                                                                                                                                                                                                               |
|--------------------|----------|-------|------|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes                                                                                                                                                                                                                                                         |
| Other information: |          |       |      |          |             | Excessive alcohol consumption during pregnancy induces the foetus alcohol syndrome (reduced weight at birth, physical and mental disorders)., There is no sign that this syndrome is also caused by dermal or inhalative absorption., Experiences on persons. |

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:                |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to algae:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.2. Persistence and degradability:      |          |      |       |      |          |             | n.d.a.                                                                |
| 12.3. Bioaccumulative potential:          |          |      |       |      |          |             | n.d.a.                                                                |
| 12.4. Mobility in soil:                   |          |      |       |      |          |             | n.d.a.                                                                |
| 12.5. Results of PBT and vPvB assessment  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.6. Endocrine disrupting properties:    |          |      |       |      |          |             | Does not apply to mixtures.                                           |
| 12.7. Other adverse effects:              |          |      |       |      |          |             | No information available on other adverse effects on the environment. |

| Acetone           |          |      |       |      |          |             |       |
|-------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |

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|                                          |           |     |            |      |                                 |                                                                                                 |                                     |
|------------------------------------------|-----------|-----|------------|------|---------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------|
| 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 fish:                  | LC50      | 96h | 8300       | mg/l | Lepomis macrochirus             |                                                                                                 |                                     |
| 12.1. Toxicity to fish:                  | EC50      | 96h | 8300       | mg/l | Lepomis macrochirus             |                                                                                                 |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 28d | 2212       | mg/l | Daphnia pulex                   | OECD 211 (Daphnia magna Reproduction Test)                                                      |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h | 6100-12700 | mg/l | Daphnia magna                   |                                                                                                 |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h | 8800       | mg/l | Daphnia pulex                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                                |                                     |
| 12.1. Toxicity to algae:                 | EC50      | 48h | 4740       | mg/l | Pseudokirchneriella subcapitata |                                                                                                 |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 48h | 3400       | mg/l | Pseudokirchneriella subcapitata |                                                                                                 |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 8d  | 530        | mg/l |                                 | DIN 38412 T.9                                                                                   | Test organism: M. aeruginosa        |
| 12.2. Persistence and degradability:     |           | 30d | 81-92      | %    |                                 | Regulation (EC) 440/2008 C.4-E (DETERMINATION OF 'READY' BIODEGRADABILITY - CLOSED BOTTLE TEST) | Readily biodegradable               |
| 12.2. Persistence and degradability:     |           | 28d | 91         | %    |                                 | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)                                         | Readily biodegradable               |
| 12.2. Persistence and degradability:     |           | 28d | 91         | %    |                                 | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)                                        | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | -0,24      |      |                                 | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)                         |                                     |
| 12.3. Bioaccumulative potential:         | BCF       |     | 0,19       |      |                                 |                                                                                                 | Low                                 |
| 12.4. Mobility in soil:                  |           |     |            |      |                                 |                                                                                                 | No adsorption in soil.              |
| 12.5. Results of PBT and vPvB assessment |           |     |            |      |                                 |                                                                                                 | No PBT substance, No vPvB substance |

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|                       |         |       |               |      |                        |                                                                                                               |  |
|-----------------------|---------|-------|---------------|------|------------------------|---------------------------------------------------------------------------------------------------------------|--|
| Toxicity to bacteria: | EC10    | 30min | 1000          | mg/l | activated sludge       | OECD 209<br>(Activated<br>Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) |  |
| Toxicity to bacteria: | BOD/COD | 16h   | 1700          | mg/l | Pseudomonas<br>putida  |                                                                                                               |  |
| Other organisms:      | EC5     | 72h   | 28            | mg/l | Entosiphon<br>sulcatum |                                                                                                               |  |
| Other information:    | BOD5    |       | 1760-<br>1900 | mg/g |                        |                                                                                                               |  |
| Other information:    | AOX     |       | 0             | %    |                        |                                                                                                               |  |
| Other information:    | COD     |       | 2070-<br>2100 | mg/g |                        |                                                                                                               |  |

| n-butyl acetate                          |           |      |               |      |                            |                                                                      |                                            |
|------------------------------------------|-----------|------|---------------|------|----------------------------|----------------------------------------------------------------------|--------------------------------------------|
| Toxicity / effect                        | Endpoint  | Time | Value         | Unit | Organism                   | Test method                                                          | Notes                                      |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 18            | mg/l | Pimephales<br>promelas     | OECD 203<br>(Fish, Acute<br>Toxicity Test)                           |                                            |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 44            | mg/l | Daphnia magna              | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)         |                                            |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 23            | mg/l | Daphnia magna              | OECD 211<br>(Daphnia magna<br>Reproduction<br>Test)                  |                                            |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 397           | mg/l | Scenedesmus<br>subspicatus | OECD 201<br>(Alga, Growth<br>Inhibition Test)                        |                                            |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 200           | mg/l | Desmodesmus<br>subspicatus |                                                                      |                                            |
| 12.2. Persistence and degradability:     |           | 28d  | 98            | %    |                            | OECD 301 D<br>(Ready<br>Biodegradability -<br>Closed Bottle<br>Test) | Readily<br>biodegradable                   |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 1,78 -<br>2,3 |      |                            |                                                                      | Low                                        |
| 12.3. Bioaccumulative potential:         | BCF       |      | 15,3          |      |                            |                                                                      |                                            |
| 12.5. Results of PBT and vPvB assessment |           |      |               |      |                            |                                                                      | No PBT<br>substance, No<br>vPvB substance  |
| 12.7. Other adverse effects:             |           |      |               |      |                            |                                                                      | Product floats<br>on the water<br>surface. |
| Toxicity to bacteria:                    | EC10      |      | 959           | mg/l | Pseudomonas<br>putida      |                                                                      |                                            |

| 2-methoxy-1-methylethyl acetate |          |      |         |      |                        |                                            |       |
|---------------------------------|----------|------|---------|------|------------------------|--------------------------------------------|-------|
| Toxicity / effect               | Endpoint | Time | Value   | Unit | Organism               | Test method                                | Notes |
| 12.1. Toxicity to fish:         | LC50     | 96h  | 100-180 | mg/l | Oncorhynchus<br>mykiss | OECD 203<br>(Fish, Acute<br>Toxicity Test) |       |

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|------------------------------------------|-----------|-------|-------|------|---------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.1. Toxicity to daphnia:               | EC50      | 48h   | >500  | mg/l | Daphnia magna             | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d   | >100  | mg/l | Daphnia magna             | OECD 211 (Daphnia magna Reproduction Test)                                               |                                     |
| 12.1. Toxicity to algae:                 | EC50      | 72h   | >1000 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| 12.2. Persistence and degradability:     |           | 28d   | 90    | %    |                           | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)                       | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow   |       | 1,2   |      |                           | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)                         | 20°C                                |
| 12.4. Mobility in soil:                  | Koc       |       | 1,7   |      |                           |                                                                                          |                                     |
| 12.5. Results of PBT and vPvB assessment |           |       |       |      |                           |                                                                                          | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC20      | 30min | >1000 | mg/l | activated sludge          | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |

| Xylene                               |           |      |             |           |          |                                                                    |                                                                                 |
|--------------------------------------|-----------|------|-------------|-----------|----------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value       | Unit      | Organism | Test method                                                        | Notes                                                                           |
| 12.2. Persistence and degradability: |           | 28d  | 98          | %         |          | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                                                           |
| 12.3. Bioaccumulative potential:     | BCF       |      | >5,5 - 25,9 |           |          |                                                                    |                                                                                 |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | 2,77-3,2    |           |          |                                                                    | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.4. Mobility in soil:              | Log Koc   |      | 2,73        |           |          |                                                                    |                                                                                 |
| 12.4. Mobility in soil:              | H (Henry) |      | 623-665     | Pa*m3/mol |          |                                                                    |                                                                                 |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm) |          |      |       |      |                     |                                      |       |
|---------------------------------------------------------------------------------------------------------|----------|------|-------|------|---------------------|--------------------------------------|-------|
| Toxicity / effect                                                                                       | Endpoint | Time | Value | Unit | Organism            | Test method                          | Notes |
| 12.1. Toxicity to fish:                                                                                 | LC50     | 96h  | >100  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) |       |



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|------------------------------------------|-----------|-----|--------|-------|---------------------------------|--------------------------------------------------|----------------------------------------|
| 12.1. Toxicity to daphnia:               | LC50      | 48h | >100   | mg/l  | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |                                        |
| 12.1. Toxicity to algae:                 | EC50      | 72h | 16     | mg/l  | Pseudokirchneriella subcapitata | U.S. EPA-600/9-78-018                            |                                        |
| 12.2. Persistence and degradability:     |           |     |        |       |                                 |                                                  | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential:         | BCF       | 42d | 9,6    |       |                                 |                                                  | Not to be expected                     |
| 12.3. Bioaccumulative potential:         | BCF       | 14d | 19-352 |       |                                 |                                                  | Oncorhynchus mykiss                    |
| 12.4. Mobility in soil:                  |           |     |        |       |                                 |                                                  | Negative                               |
| 12.5. Results of PBT and vPvB assessment |           |     |        |       |                                 |                                                  | No PBT substance, No vPvB substance    |
| Toxicity to bacteria:                    |           |     | >5000  | mg/l  | Escherichia coli                |                                                  |                                        |
| Toxicity to bacteria:                    | LC0       | 24h | >10000 | mg/l  | Pseudomonas fluorescens         |                                                  |                                        |
| Toxicity to annelids:                    | NOEC/NOEL |     | >1000  | mg/kg | Eisenia foetida                 |                                                  |                                        |
| Water solubility:                        |           |     |        |       |                                 |                                                  | Insoluble 20°C                         |

| Ethanol                              |           |      |                   |      |                     |                                                                        |                                           |
|--------------------------------------|-----------|------|-------------------|------|---------------------|------------------------------------------------------------------------|-------------------------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value             | Unit | Organism            | Test method                                                            | Notes                                     |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 13000             | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)                                   |                                           |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 120h | 250               | mg/l | Brachydanio rerio   | OECD 212 (Fish, Short-term Toxicity Test on Embryo and Sac-fry Stages) |                                           |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 5414              | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test)                       |                                           |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 10d  | 9,6               | mg/l | Ceriodaphnia spec.  |                                                                        | References                                |
| 12.1. Toxicity to algae:             | EC50      | 72h  | 275               | mg/l | Chlorella vulgaris  | OECD 201 (Alga, Growth Inhibition Test)                                |                                           |
| 12.2. Persistence and degradability: |           | 28d  | 97                | %    | activated sludge    | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)               | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | (-0,35) - (-0,32) |      |                     |                                                                        | Bioaccumulation is unlikely (LogPow < 1). |
| 12.3. Bioaccumulative potential:     | BCF       |      | 0,66 - 3,2        |      |                     |                                                                        |                                           |
| 12.4. Mobility in soil:              | H (Henry) |      | 0,000138          |      |                     |                                                                        |                                           |
| 12.4. Mobility in soil:              | Koc       |      | 1,0               |      |                     |                                                                        | Highest estimated                         |

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|------------------------------------------|-----------|----|-------|------|------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment |           |    |       |      |                  |                                                                                          | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | IC50      | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion                |
| Other organisms:                         | NOEC/NOEL |    | 280   | mg/l | Lemna gibba      | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| Other information:                       | COD       |    | 1,9   | g/g  |                  |                                                                                          |                                     |
| Other information:                       | BOD5      |    | 1     | g/g  |                  |                                                                                          |                                     |

| 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:                 | EC50      | 72h  | 1972      | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                          |                                           |
| 12.1. Toxicity to algae:                 | EC50      | 96h  | 2029      | 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   |      | 0,29-0,3  |      |                                 | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | Bioaccumulation is unlikely (LogPow < 1). |
| 12.4. Mobility in soil:                  | H (Henry) |      | 0,0000244 |      |                                 |                                                                  | 25°C                                      |
| 12.4. Mobility in soil:                  | Log Koc   |      | 3,8       |      |                                 |                                                                  |                                           |
| 12.5. Results of PBT and vPvB assessment |           |      |           |      |                                 |                                                                  | No vPvB substance, No PBT substance       |
| Toxicity to bacteria:                    | EC0       | 16h  | 1150      | mg/l | Pseudomonas putida              | DIN 38412 T.8                                                    |                                           |
| Other information:                       | DOC       |      | >70       | %    |                                 |                                                                  |                                           |
| Other information:                       | BOD/COD   |      | >50       | %    |                                 |                                                                  |                                           |

| Glycolic acid n-butyl ester |          |      |       |      |          |             |       |
|-----------------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect           | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to daphnia:  | EC50     | 48h  | >100  | mg/l |          |             |       |

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|------------------------------------------|---------|-----|---------|------|--------------------|----------------------------------------------------------------------|-------------------------------------------|
| 12.1. Toxicity to algae:                 | EC50    | 7d  | > 87,44 | mg/l |                    | OECD 221<br>(Lemna sp.<br>Growth Inhibition<br>Test)                 |                                           |
| 12.2. Persistence and degradability:     |         | 28d | 82      | %    |                    | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test) |                                           |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 0,38    |      |                    |                                                                      | calculated value                          |
| 12.5. Results of PBT and vPvB assessment |         |     |         |      |                    |                                                                      | No PBT<br>substance, No<br>vPvB substance |
| Toxicity to bacteria:                    | EC20    | 18h | 2320    | mg/l | Pseudomonas putida | DIN 38412 T.8                                                        |                                           |

| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) |          |      |       |      |                   |                                                                      |                          |
|-------------------------------------------------------------------------|----------|------|-------|------|-------------------|----------------------------------------------------------------------|--------------------------|
| Toxicity / effect                                                       | Endpoint | Time | Value | Unit | Organism          | Test method                                                          | Notes                    |
| 12.1. Toxicity to fish:                                                 | LC50     | 96h  | 0,95  | mg/l | Brachydanio rerio | OECD 203<br>(Fish, Acute<br>Toxicity Test)                           |                          |
| 12.1. Toxicity to daphnia:                                              | EC50     | 21d  | 1,41  | mg/l | Daphnia magna     | OECD 211<br>(Daphnia magna<br>Reproduction<br>Test)                  |                          |
| 12.2. Persistence and degradability:                                    |          | 28d  | 66    | %    |                   | OECD 301 D<br>(Ready<br>Biodegradability -<br>Closed Bottle<br>Test) | Readily<br>biodegradable |

| Butane                                   |          |      |       |      |          |             |                                                                                                |
|------------------------------------------|----------|------|-------|------|----------|-------------|------------------------------------------------------------------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                                          |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 24,11 | mg/l |          | QSAR        |                                                                                                |
| 12.1. Toxicity to daphnia:               | LC50     | 48h  | 14,22 | mg/l |          | QSAR        |                                                                                                |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,98  |      |          |             | A notable<br>biological<br>accumulation<br>potential is not<br>to be expected<br>(LogPow 1-3). |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | Not to be<br>expected                                                                          |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT<br>substance, No<br>vPvB<br>substance                                                   |

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

|                                                                       |
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| Isobutane                                |          |      |       |      |          |             |                                                                                 |
|------------------------------------------|----------|------|-------|------|----------|-------------|---------------------------------------------------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                           |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 27,98 | mg/l |          |             |                                                                                 |
| 12.1. Toxicity to algae:                 | EC50     | 96h  | 7,71  | mg/l |          |             |                                                                                 |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | Readily biodegradable                                                           |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | 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)  
08 01 11 waste paint and varnish containing organic solvents or other hazardous substances  
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.  
Do not perforate, cut up or weld uncleaned container.  
15 01 04 metallic packaging

SECTION 14: Transport information

General statements  
Transport by road/by rail (ADR/RID)

|                                   |                |
|-----------------------------------|----------------|
| 14.1. UN number or ID number:     | 1950           |
| 14.2. UN proper shipping name:    |                |
| UN 1950 AEROSOLS                  |                |
| 14.3. Transport hazard class(es): | 2.1            |
| 14.4. Packing group:              | -              |
| 14.5. Environmental hazards:      | Not applicable |
| Tunnel restriction code:          | D              |
| Classification code:              | 5F             |
| LQ:                               | 1 L            |
| Transport category:               | 2              |

Transport by sea (IMDG-code)

|                                   |      |
|-----------------------------------|------|
| 14.1. UN number or ID number:     | 1950 |
| 14.2. UN proper shipping name:    |      |
| UN 1950 AEROSOLS                  |      |
| 14.3. Transport hazard class(es): | 2.1  |
| 14.4. Packing group:              | -    |



GB

IRL

M

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14.5. Environmental hazards:

Marine Pollutant:

EmS:

Segregation:

Not applicable

Not applicable

F-D, S-U

SG69

Transport by air (IATA)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1950 Aerosols, flammable

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

1950

2.1

-

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. Maritime transport in bulk according to IMO instruments

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.

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Directive 2004/42/CE (VOC):  
 VOC EU limit value for this product is: 840 g/l (B/e)  
 Maximum VOC content of this product is: 713 g/l

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 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                              |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Eye Irrit. 2, H319                                                    | Classification according to calculation procedure.  |
| STOT SE 3, H336                                                       | Classification according to calculation procedure.  |
| Aerosol 1, H222                                                       | Classification according to calculation procedure.  |
| Aerosol 1, H229                                                       | Classification based on the form or physical state. |

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

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H351 Suspected of causing cancer by inhalation.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H361 Suspected of damaging fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation  
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
 Aerosol — Aerosols  
 Flam. Liq. — Flammable liquid  
 Acute Tox. — Acute toxicity - dermal  
 Acute Tox. — Acute toxicity - inhalation  
 Skin Irrit. — Skin irritation  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 STOT RE — Specific target organ toxicity - repeated exposure  
 Asp. Tox. — Aspiration hazard  
 Carc. — Carcinogenicity  
 Eye Dam. — Serious eye damage



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Repr. — Reproductive toxicity  
Aquatic Acute — Hazardous to the aquatic environment - acute  
Aquatic Chronic — Hazardous to the aquatic environment - chronic

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
Guidelines for the preparation of safety data sheets as amended (ECHA).  
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
Safety data sheets for the constituent substances.  
ECHA Homepage - Information about chemicals.  
GESTIS Substance Database (Germany).  
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
National Lists of Occupational Exposure Limits for each country as amended.  
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### 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)  
BCF Bioconcentration factor  
BSEF The International Bromine Council  
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  
DOC Dissolved organic carbon  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency  
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
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)  
ErCx, EpCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
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  
Koc Adsorption coefficient of organic carbon in the soil  
Kow octanol-water partition coefficient  
IARC International Agency for Research on Cancer

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IATA International Air Transport Association  
IBC (Code) International Bulk Chemical (Code)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCILID International Uniform Chemical Information Database  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
mg/kg bw mg/kg body weight  
mg/kg bw/d, mg/kg bw/day mg/kg body weight/day  
mg/kg dw mg/kg dry weight  
mg/kg wwt mg/kg wet weight  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute for Occupational Safety and Health (USA)  
NLP No-longer-Polymer  
NOEC, NOEL No Observed Effect Concentration/Level  
OECD Organisation for Economic Co-operation and Development  
org. organic  
OSHA Occupational Safety and Health Administration (USA)  
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. 6/7/8/9xx-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  
TOC Total organic carbon  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative

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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