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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0007  
Replacing version dated / version: 14.10.2021 / 0006  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
3-IN-ONE®Multi-Purpose Oil with PTFE

## 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

#### **3-IN-ONE®Multi-Purpose Oil with PTFE**

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

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

Lubricant

##### Uses advised against:

No information available at present.

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

GB

WD-40 Company Limited  
PO Box 440  
GB-Kiln Farm, Milton Keynes, MK11 3LF

Tel.: +44 (0) 1908 555400  
Fax: +44 (0) 1908 266900  
E-Mail: [Compliance@wd40.co.uk](mailto:Compliance@wd40.co.uk)  
Homepage: [www.wd40.co.uk](http://www.wd40.co.uk)

WD-40 Company Limited  
Noorderpoort 93E  
NL- 5916PJ Venlo

Tel.: +31 85 487 46 91

IRL

Euro Car Parts Team P. R. Reilly  
Unit K Furry Park Industrial Est.  
Swords Road  
Turnapin Little  
Dublin 9  
D09 TC1

Email: [custservice.ie@eurocarparts.com](mailto:custservice.ie@eurocarparts.com)  
Phone: 1800 818 440

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

#### 1.4 Emergency telephone number

##### 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:

GB

+44 20 3807 3798

IRL

+353 1 901 4670

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

| Hazard class | Hazard category | Hazard statement                                   |
|--------------|-----------------|----------------------------------------------------|
| Asp. Tox.    | 1               | H304-May be fatal if swallowed and enters airways. |
| 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)



Danger

H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Baseoil - unspecified

### 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

Aerosol

### 3.1 Substances

n.a.

### 3.2 Mixtures

|                                                                     |                       |
|---------------------------------------------------------------------|-----------------------|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics |                       |
| Registration number (REACH)                                         | 01-2119463258-33-XXXX |
| Index                                                               | ---                   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                              | 919-857-5             |
| CAS                                                                 | ---                   |
| content %                                                           | 50-70                 |

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|                                                                               |                                                                      |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304 |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------|

|                                                                               |                   |
|-------------------------------------------------------------------------------|-------------------|
| <b>Baseoil - unspecified *</b>                                                |                   |
| <b>Registration number (REACH)</b>                                            | ---               |
| <b>Index</b>                                                                  | ---               |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | ---               |
| <b>CAS</b>                                                                    | ---               |
| <b>content %</b>                                                              | 20-30             |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304 |

|                                                                               |                                                                |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>2-(2-butoxyethoxy)ethanol</b>                                              | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>                                            | 01-2119475104-44-XXXX                                          |
| <b>Index</b>                                                                  | 603-096-00-8                                                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-961-6                                                      |
| <b>CAS</b>                                                                    | 112-34-5                                                       |
| <b>content %</b>                                                              | 1-5                                                            |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Eye Irrit. 2, H319                                             |

|                                                                               |                                                                |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Carbon dioxide</b>                                                         | <b>Substance for which an EU exposure limit value applies.</b> |
| <b>Registration number (REACH)</b>                                            | ---                                                            |
| <b>Index</b>                                                                  | ---                                                            |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 204-696-9                                                      |
| <b>CAS</b>                                                                    | 124-38-9                                                       |
| <b>content %</b>                                                              | 1-5                                                            |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | ---                                                            |

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 contained mineral oil can be described by one or more of the following numbers:

| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b> | <b>Registration number (REACH)</b> | <b>Chemical name</b>                                                     |
|-----------------------------------------------|------------------------------------|--------------------------------------------------------------------------|
| 265-169-7                                     | 01-2119471299-27-XXXX              | Distillates (petroleum), solvent-dewaxed heavy paraffinic                |
| 265-157-1                                     | 01-2119484627-25-XXXX              | Distillates (petroleum), hydrotreated heavy paraffinic                   |
| 265-156-6                                     | 01-2119480375-34-XXXX              | Distillates (petroleum), hydrotreated light naphthenic                   |
| 265-158-7                                     | 01-2119487077-29-XXXX              | Distillates (petroleum), hydrotreated light paraffinic                   |
| 232-455-8                                     | 01-2119487078-27-XXXX              | White mineral oil (Natural oil)                                          |
| 276-738-4                                     | 01-2119474889-13-XXXX              | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based     |
| 500-183-1                                     | 01-2119486452-34-XXXX              | 1-Decene, homopolymer, hydrogenated                                      |
| 276-737-9                                     | 01-2119474878-16-XXXX              | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based     |
| 265-159-2                                     | 01-2119480132-48-XXXX              | Distillates (petroleum), solvent-dewaxed light paraffinic                |
| 482-220-0                                     | 01-0000020163-82-XXXX              | Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear |

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.  
 If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## SECTION 4: First aid measures

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#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

##### Inhalation

Remove person from danger area.

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

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

Respiratory arrest - Artificial respiration apparatus necessary.

##### 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

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

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

Danger of aspiration.

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

Immediate admittance to a hospital.

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

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

The following may occur:

Irritation of the eyes

Drying of the skin.

Dermatitis (skin inflammation)

At high concentrations:

Irritation of the respiratory tract

Coughing

Dizziness

Headaches

Effect on the central nervous system

Coordination disorders

Unconsciousness

Ingestion:

Headaches

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

Other dangerous properties cannot be ruled out.

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

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

CO<sub>2</sub>

Dry extinguisher

Water jet spray

Alcohol resistant foam

##### Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

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### 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.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

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

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

If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

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

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

Active substance:

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

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Observe special regulations for aerosols!

Observe special storage conditions.

Observe special storage conditions.

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

Store in a well ventilated place.

Store cool.

**7.3 Specific end use(s)**

No information available at present.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
800 mg/m<sup>3</sup>

| Chemical Name                                                                              | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Content %:50-70 |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| WEL-TWA: 800 mg/m <sup>3</sup>                                                             | WEL-STEL: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ---             |
| Monitoring procedures:                                                                     | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| BMGV: ---                                                                                  | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |
| Chemical Name                                                                              | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Content %:50-70 |
| OELV-8h: 100 ppm (573 mg/m <sup>3</sup> ) ("Stoddard solvent", [White spirit])             | OELV-15min: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ---             |
| Monitoring procedures:                                                                     | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| BLV: ---                                                                                   | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| Chemical Name                                                                              | 2-(2-butoxyethoxy)ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Content %:1-5   |
| WEL-TWA: 10 ppm (67,5 mg/m <sup>3</sup> ) (WEL, EU)                                        | WEL-STEL: 15 ppm (101,2 mg/m <sup>3</sup> ) (WEL, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ---             |
| Monitoring procedures:                                                                     | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |
| BMGV: ---                                                                                  | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| Chemical Name                                                                              | 2-(2-butoxyethoxy)ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Content %:1-5   |
| OELV-8h: 10 ppm (67,5 mg/m <sup>3</sup> ) (OELV, EU)                                       | OELV-15min: 15 ppm (101,2 mg/m <sup>3</sup> ) (OELV, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ---             |
| Monitoring procedures:                                                                     | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |
| BLV: ---                                                                                   | Other information: IOELV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| Chemical Name                                                                              | Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Content %:1-5   |
| WEL-TWA: 5000 ppm (9150 mg/m <sup>3</sup> ) (WEL), 5000 ppm (9000 mg/m <sup>3</sup> ) (EU) | WEL-STEL: 15000 ppm (27400 mg/m <sup>3</sup> ) (WEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ---             |
| Monitoring procedures:                                                                     | <ul style="list-style-type: none"> <li>- Draeger - Carbon Dioxide 0,1%/a (CH 23 501)</li> <li>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)</li> <li>- Draeger - Carbon Dioxide 1%/a (CH 25 101)</li> <li>- Draeger - Carbon Dioxide 100/a (81 01 811)</li> <li>- Draeger - Carbon Dioxide 5%/A (CH 20 301)</li> <li>- Compur - KITA-126 B (549 475)</li> <li>- Compur - KITA-126 SA (549 467)</li> <li>- Compur - KITA-126 SB (548 816)</li> <li>- Compur - KITA-126 SF (549 491)</li> <li>- Compur - KITA-126 SG (550 210)</li> <li>- Compur - KITA-126 SH (549 509)</li> <li>- Compur - KITA-126 UH (549 517)</li> <li>- NIOSH 6603 (Carbon dioxide) - 1994</li> <li>- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990</li> </ul> |                 |
| BMGV: ---                                                                                  | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| Chemical Name                                                                              | Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Content %:1-5   |
| OELV-8h: 5000 ppm (9000 mg/m <sup>3</sup> ) (OELV-8h, EU)                                  | OELV-15min: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ---             |
| Monitoring procedures:                                                                     | <ul style="list-style-type: none"> <li>- Draeger - Carbon Dioxide 0,1%/a (CH 23 501)</li> <li>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)</li> <li>- Draeger - Carbon Dioxide 1%/a (CH 25 101)</li> <li>- Draeger - Carbon Dioxide 100/a (81 01 811)</li> <li>- Draeger - Carbon Dioxide 5%/A (CH 20 301)</li> <li>- Compur - KITA-126 B (549 475)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |                 |

- Compur - KITA-126 SA (549 467)
- Compur - KITA-126 SB (548 816)
- Compur - KITA-126 SF (549 491)
- Compur - KITA-126 SG (550 210)
- Compur - KITA-126 SH (549 509)
- Compur - KITA-126 UH (549 517)
- NIOSH 6603 (Carbon dioxide) - 1994
- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990

BLV: ---

Other information: IOELV

| Chemical Name                                                                     | Oil mist, mineral      | Content %: |
|-----------------------------------------------------------------------------------|------------------------|------------|
| WEL-TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: ---          | ---        |
| Monitoring procedures: - Draeger - Oil Mist 1/a (67 33 031)                       |                        |            |
| BMGV: ---                                                                         | Other information: --- |            |

| Chemical Name                                                                           | Oil mist, mineral      | Content %: |
|-----------------------------------------------------------------------------------------|------------------------|------------|
| OELV-8h: 5 mg/m <sup>3</sup> (Mineral oil, pure, highly & severely refined (inhalable)) | OELV-15min: ---        | ---        |
| Monitoring procedures: - Draeger - Oil Mist 1/a (67 33 031)                             |                        |            |
| BLV: ---                                                                                | Other information: --- |            |

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|---------------------|--------------------------------------------|-----------------------------|------------|-------|-------------------|------|
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day      |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day      |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL       | 900   | mg/m <sup>3</sup> |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 125   | mg/kg bw/day      |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL       | 185   | mg/m <sup>3</sup> |      |
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL       | 125   | mg/kg bw/day      |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day      |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL       | 1500  | mg/m <sup>3</sup> |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 208   | mg/kg bw/day      |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL       | 871   | mg/m <sup>3</sup> |      |

**2-(2-butoxyethoxy)ethanol**

| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit  | Note |
|---------------------|------------------------------------------------------|------------------|------------|-------|-------|------|
|                     | Environment - freshwater                             |                  | PNEC       | 1,1   | mg/l  |      |
|                     | Environment - marine                                 |                  | PNEC       | 0,11  | mg/l  |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 11    | mg/l  |      |
|                     | Environment - sediment, freshwater                   |                  | PNEC       | 4,4   | mg/kg |      |
|                     | Environment - sediment, marine                       |                  | PNEC       | 0,44  | mg/kg |      |
|                     | Environment - soil                                   |                  | PNEC       | 0,32  | mg/kg |      |
|                     | Environment - sewage treatment plant                 |                  | PNEC       | 100   | mg/l  |      |
|                     | Environment - oral (animal feed)                     |                  | PNEC       | 56    | mg/kg |      |

|                     |                    |                              |      |       |            |  |
|---------------------|--------------------|------------------------------|------|-------|------------|--|
| Consumer            | Human - inhalation | Short term, local effects    | DNEL | 60,7  | mg/m3      |  |
| Consumer            | Human - dermal     | Long term, systemic effects  | DNEL | 50    | mg/kg bw/d |  |
| Consumer            | Human - inhalation | Long term, systemic effects  | DNEL | 40,5  | mg/m3      |  |
| Consumer            | Human - oral       | Long term, systemic effects  | DNEL | 5     | mg/kg bw/d |  |
| Consumer            | Human - inhalation | Long term, local effects     | DNEL | 40,5  | mg/m3      |  |
| Workers / employees | Human - oral       | Long term, local effects     | DNEL | 67,5  | mg/m3      |  |
| Workers / employees | Human - dermal     | Short term, systemic effects | DNEL | 89    | mg/kg bw/d |  |
| Workers / employees | Human - inhalation | Long term, local effects     | DNEL | 67,5  | mg/m3      |  |
| Workers / employees | Human - dermal     | Long term, systemic effects  | DNEL | 20    | mg/kg      |  |
| Workers / employees | Human - inhalation | Short term, local effects    | DNEL | 101,2 | mg/m3      |  |
| Workers / employees | Human - inhalation | Long term, systemic effects  | DNEL | 67,5  | mg/m3      |  |

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

(IRL) OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |  
 OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 BLV = Biological limit value |  
 Other information: 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.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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



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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

$\geq 0,4$

Permeation time (penetration time) in minutes:

$\geq 480$

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

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

Protective PVC gloves (EN ISO 374).

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

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:

Colourless

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:

0,6 Vol-% (Naphtha (petroleum), hydrotreated heavy)

Upper explosion limit:

There is no information available on this parameter.

Flash point:

Does not apply to aerosols.

Auto-ignition temperature:

Does not apply to aerosols.

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:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics:

**9.2 Other information**

Explosives:

Oxidising liquids:

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

Does not apply to aerosols.

Does not apply to aerosols.

Does not apply to aerosols.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.

No

**SECTION 10: Stability and reactivity****10.1 Reactivity**

The product has not been tested.

**10.2 Chemical stability**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4 Conditions to avoid**

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

**10.5 Incompatible materials**

See also section 7.

Avoid contact with strong oxidizing agents.

**10.6 Hazardous decomposition products**

See also section 5.2

No decomposition when used as directed.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

**3-IN-ONE®Multi-Purpose Oil with PTFE**

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

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method                          | Notes |
|----------------------------------|----------|-------|---------|----------|--------------------------------------|-------|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)       |       |
| Acute toxicity, by dermal route: | LD50     | >5000 | mg/kg   | Rabbit   | OECD 402 (Acute Dermal Toxicity)     |       |
| Acute toxicity, by inhalation:   | LD50     | >18,5 | mg/l/4h | Rat      | OECD 403 (Acute Inhalation Toxicity) |       |

|                                                                         |       |         |            |                        |                                                                |                                                                                       |
|-------------------------------------------------------------------------|-------|---------|------------|------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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)                      | Not irritant                                                                          |
| 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, Analogous conclusion                                                        |
| Germ cell mutagenicity:                                                 |       |         |            | Human being            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion                                                        |
| Germ cell mutagenicity:                                                 |       |         |            | Rat                    | OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test)    | Negative, Analogous conclusion                                                        |
| Carcinogenicity:                                                        | NOAEC | 1100    | mg/m3      | Mouse                  | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)   | Female                                                                                |
| Carcinogenicity:                                                        | NOAEC | >= 2200 | mg/m3      | Mouse                  | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)   | Male                                                                                  |
| Reproductive toxicity:                                                  |       |         |            |                        | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion                                                        |
| Reproductive toxicity (Effects on fertility):                           | NOAEL | >= 3000 | mg/kg bw/d | Rat                    | OECD 415 (One-Generation Reproduction Toxicity Study)          | Male                                                                                  |
| Reproductive toxicity (Effects on fertility):                           | NOAEL | >= 1500 | mg/kg bw/d | Rat                    | OECD 415 (One-Generation Reproduction Toxicity Study)          | Female                                                                                |
| Specific target organ toxicity - single exposure (STOT-SE):             |       |         |            |                        |                                                                | May cause drowsiness or dizziness., STOT SE 3, H336                                   |
| Aspiration hazard:                                                      |       |         |            |                        |                                                                | Yes                                                                                   |
| Symptoms:                                                               |       |         |            |                        |                                                                | unconsciousness, headaches, dizziness, discoloration of the skin, vomiting, diarrhoea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 3000    | mg/kg/d    | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion                                                                  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 1444    | ppm        | Rat                    | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)       | Analogous conclusion                                                                  |

**2-(2-butoxyethoxy)ethanol**

| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method                    | Notes |
|--------------------------------|----------|-------|-------|----------|--------------------------------|-------|
| Acute toxicity, by oral route: | LD50     | >5000 | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity) |       |

|                                                                         |       |       |            |                        |                                                             |                                                                                                                                 |
|-------------------------------------------------------------------------|-------|-------|------------|------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity, by oral route:                                          | LD50  | 2410  | mg/kg      | Mouse                  | OECD 401 (Acute Oral Toxicity)                              | fasted animals                                                                                                                  |
| Acute toxicity, by dermal route:                                        | LD50  | 2764  | mg/kg      | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                            |                                                                                                                                 |
| 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                                                                                                                    |
| 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                                                                                                                        |
| Germ cell mutagenicity:                                                 |       |       |            |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)    | Negative Chinese hamster                                                                                                        |
| Germ cell mutagenicity:                                                 |       |       |            | Mouse                  | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative                                                                                                                        |
| Germ cell mutagenicity:                                                 |       |       |            |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)       | Negative Chinese hamster                                                                                                        |
| Reproductive toxicity:                                                  |       | 1000  | mg/kg      | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)            | Negative, Analogous conclusion                                                                                                  |
| Aspiration hazard:                                                      |       |       |            |                        |                                                             | No                                                                                                                              |
| Symptoms:                                                               |       |       |            |                        |                                                             | breathing difficulties, respiratory distress, diarrhoea, coughing, mucous membrane irritation, dizziness, watering eyes, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 250   | mg/kg      | Rat                    |                                                             |                                                                                                                                 |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | < 200 | mg/kg bw/d | Rat                    | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)        | Male                                                                                                                            |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 14    | ppm        | Rat                    |                                                             | Vapours                                                                                                                         |

**Carbon dioxide**

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes                                                                                                                                      |
|-------------------|----------|-------|------|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms:         |          |       |      |          |             | unconsciousness, blisters by skin-contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness |

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## 11.2. Information on other hazards

| 3-IN-ONE®Multi-Purpose Oil with PTFE |          |       |      |          |             |                                                                       |
|--------------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                    | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
| Endocrine disrupting properties:     |          |       |      |          |             | Does not apply to mixtures.                                           |
| Other information:                   |          |       |      |          |             | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

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

| 3-IN-ONE®Multi-Purpose Oil with PTFE     |          |      |       |      |          |             |                                                                       |
|------------------------------------------|----------|------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 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:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator.                    |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | Concentration in organisms possible.                                  |
| 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. |
| Other information:                       |          |      |       |      |          |             | According to the recipe, contains no AOX.                             |

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |      |       |      |                                  |                                                  |       |
|---------------------------------------------------------------------|----------|------|-------|------|----------------------------------|--------------------------------------------------|-------|
| Toxicity / effect                                                   | Endpoint | Time | Value | Unit | Organism                         | Test method                                      | Notes |
| Toxicity to bacteria:                                               | EL50     | 48h  | 0,95  | mg/l |                                  |                                                  | QSAR  |
| 12.1. Toxicity to fish:                                             | LC50     | 96h  | >1000 | mg/l | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to fish:                                             | NOELR    | 28d  | 0,13  | mg/l | Oncorhynchus mykiss              | QSAR                                             |       |
| 12.1. Toxicity to daphnia:                                          | EC50     | 48h  | >1000 | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |
| 12.1. Toxicity to algae:                                            | ErC50    | 72h  | >1000 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)          |       |
| 12.1. Toxicity to algae:                                            | EbC50    | 72h  | >1000 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)          |       |

|                                          |       |     |       |      |                                 |                                                                    |                                     |
|------------------------------------------|-------|-----|-------|------|---------------------------------|--------------------------------------------------------------------|-------------------------------------|
| 12.1. Toxicity to algae:                 | NOELR | 72h | 100   | mg/l | Raphidocelis subcapitata        | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.2. Persistence and degradability:     |       | 28d | 80    | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable               |
| 12.1. Toxicity to algae:                 | NOELR | 72h | 3     | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.3. Bioaccumulative potential:         |       |     | 5-6,7 |      |                                 |                                                                    | High                                |
| 12.5. Results of PBT and vPvB assessment |       |     |       |      |                                 |                                                                    | No PBT substance, No vPvB substance |

**2-(2-butoxyethoxy)ethanol**

| Toxicity / effect                        | Endpoint  | Time  | Value | Unit | Organism                | Test method                                                                              | Notes                               |
|------------------------------------------|-----------|-------|-------|------|-------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 48h   | >=100 | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                     |
| 12.1. Toxicity to fish:                  | LC50      | 96h   | 1300  | mg/l | Lepomis macrochirus     | OECD 203 (Fish, Acute Toxicity Test)                                                     |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h   | >100  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 96h   | >100  | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| 12.2. Persistence and degradability:     |           | 28d   | 76    | %    |                         | OECD 301 D (Ready Biodegradability - Closed Bottle Test)                                 |                                     |
| 12.2. Persistence and degradability:     |           | 28d   | 100   | %    | activated sludge        | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)                          | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow   |       | 0,9-1 |      |                         | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)                         | Slight                              |
| 12.5. Results of PBT and vPvB assessment |           |       |       |      |                         |                                                                                          | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10      | 30min | >1995 | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |

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|                    |  |  |  |  |  |  |                                                                                                       |
|--------------------|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------|
| Other information: |  |  |  |  |  |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |
|--------------------|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------|

| Carbon dioxide                  |          |      |       |      |                 |             |                   |
|---------------------------------|----------|------|-------|------|-----------------|-------------|-------------------|
| Toxicity / effect               | Endpoint | Time | Value | Unit | Organism        | Test method | Notes             |
| 12.1. Toxicity to fish:         | LC50     | 96h  | 35    | mg/l | Salmo gairdneri |             |                   |
| Other information:              | Log Kow  |      | 0,83  |      |                 |             |                   |
| 12.7. Other adverse effects:    |          |      |       |      |                 |             | Greenhouse effect |
| Global warming potential (GWP): |          |      | 1     |      |                 |             |                   |

## 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)  
 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils  
 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.  
 15 01 04 metallic packaging  
 15 01 10 packaging containing residues of or contaminated by hazardous substances  
 Do not perforate, cut up or weld uncleaned container.

## SECTION 14: Transport information

### General statements

14.1. UN number or ID number: 1950

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

Classification code:

LQ:

14.5. Environmental hazards:

Tunnel restriction code:

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

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

EmS:

Marine Pollutant:

14.5. Environmental hazards:

#### Transport by air (IATA)

14.2. UN proper shipping name:

2.1

-

5F

1 L

Not applicable

D

2.1

-

F-D, S-U

n.a

Not applicable



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Aerosols, flammable  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 14.5. Environmental hazards: Not applicable



#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

#### 14.7. 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.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Regulation (EC) No 1907/2006, Annex XVII  
 2-(2-butoxyethoxy)ethanol  
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| P3b               | 11.1, 11.2       | 5000 (netto)                                                                                                                          | 50000 (netto)                                                                                                                         |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): ~ 65 %

Observe incident regulations.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

EUF0015  
 Revised sections: 1-16  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                              |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Asp. Tox. 1, H304                                                     | Classification according to calculation procedure.  |
| STOT SE 3, H336                                                       | Classification according to calculation procedure.  |
| Aerosol 1, H222                                                       | Classification based on test data.                  |
| Aerosol 1, H229                                                       | Classification based on the form or physical state. |



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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

### 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

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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, EµCx, 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

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

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

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. 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

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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