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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 04.03.2024 / 0035  
Replacing version dated / version: 12.11.2023 / 0034  
Valid from: 04.03.2024  
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Rostloeser  
Rapid Rust Solvent

## 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

**Rostloeser**  
**Rapid Rust Solvent**

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

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

Rust remover

**Uses advised against:**

No information available at present.

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

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

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

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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

+49 (0) 700 / 24 112 112 (LMR)  
+1 872 5888271 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use.

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

EUH066-Repeated exposure may cause skin dryness or cracking.

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

## 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

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics   |                             |
|------------------------------------------------------------------------|-----------------------------|
| Registration number (REACH)                                            | 01-2119457273-39-XXXX       |
| Index                                                                  | ---                         |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 918-481-9                   |
| CAS                                                                    | ---                         |
| content %                                                              | 50-<75                      |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Asp. Tox. 1, H304 |

| 2-Butoxyethanol                                                        |  | Substance for which an EU exposure limit value applies.                                                     |
|------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|
| Registration number (REACH)                                            |  | 01-2119475108-36-XXXX                                                                                       |
| Index                                                                  |  | 603-014-00-0                                                                                                |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 |  | 203-905-0                                                                                                   |
| CAS                                                                    |  | 111-76-2                                                                                                    |
| content %                                                              |  | 1-<10                                                                                                       |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors |  | Acute Tox. 3, H331<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                       |
| Specific Concentration Limits and ATE                                  |  | ATE (oral): 1200 mg/kg<br>ATE (as inhalation, Aerosol): 0,5 mg/l/4h<br>ATE (as inhalation, Vapours): 3 mg/l |

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| Carbon dioxide                                                         | Substance for which an EU exposure limit value applies. |
|------------------------------------------------------------------------|---------------------------------------------------------|
| Registration number (REACH)                                            | ---                                                     |
| Index                                                                  | ---                                                     |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 204-696-9                                               |
| CAS                                                                    | 124-38-9                                                |
| content %                                                              | 1-<10                                                   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | ---                                                     |

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.  
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.  
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.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult 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.  
Danger of aspiration.  
In case of vomiting, keep head low so that the stomach content does not reach the lungs.

### 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.  
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

Adapt to the nature and extent of fire.  
Water jet spray/foam/CO2/dry extinguisher

#### 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 sulphur  
Toxic pyrolysis products.  
Toxic gases  
Danger of bursting (explosion) when heated

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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 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

Prevent from entering drainage system.  
Prevent surface and ground-water infiltration, as well as ground penetration.

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

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

Active substance:

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

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
Keep away from sources of ignition - Do not smoke.  
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.  
Observe special storage conditions.  
Store product closed and only in original packing.  
Not to be stored in gangways or stair wells.  
Observe special regulations for aerosols!  
Do not store with flammable or self-igniting materials.  
Keep protected from direct sunlight and temperatures over 50°C.  
Store in a well ventilated place.

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Store cool.

### 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

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

| CE                     | Chemical Name | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics                                                                                                                 |     |
|------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 800 mg/m3     |               | 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)                                                                                                                  |     |

| CE                                                                          | Chemical Name | 2-Butoxyethanol                                                                                                                                                                                                                                                                                                                                                                                                          |                             |     |
|-----------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----|
| WEL-TWA: 25 ppm (123 mg/m3) (WEL-TWA), 20 ppm (98 mg/m3) (EU)               |               | WEL-STEL: 50 ppm (246 mg/m3) (WEL-STEL, EU)                                                                                                                                                                                                                                                                                                                                                                              |                             | --- |
| Monitoring procedures:                                                      |               | <ul style="list-style-type: none"><li>- Compur - KITA-190 U(C) (548 873)</li><li>- DFG Meth.-Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004)</li><li>- NIOSH 1403 (ALCOHOLS IV) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990</li></ul> |                             |     |
| BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) |               |                                                                                                                                                                                                                                                                                                                                                                                                                          | Other information: Sk (WEL) |     |

| CE                                                                   | Chemical Name | Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |
|----------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 5000 ppm (9150 mg/m3) (WEL-TWA), 5000 ppm (9000 mg/m3) (EU) |               | WEL-STEL: 15000 ppm (27400 mg/m3) (WEL-STEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | --- |
| 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: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |

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

### 2-Butoxyethanol

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--------------------------------------------|------------------|------------|-------|------|------|
|                     |                                            |                  |            |       |      |      |

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|                     |                                               |                              |      |      |            |  |
|---------------------|-----------------------------------------------|------------------------------|------|------|------------|--|
|                     | Environment - freshwater                      |                              | PNEC | 8,8  | mg/l       |  |
|                     | Environment - marine                          |                              | PNEC | 0,88 | mg/l       |  |
|                     | Environment - sediment, freshwater            |                              | PNEC | 34,6 | mg/kg dw   |  |
|                     | Environment - soil                            |                              | PNEC | 2,8  | mg/kg dw   |  |
|                     | Environment - sewage treatment plant          |                              | PNEC | 463  | mg/l       |  |
|                     | Environment - sediment, marine                |                              | PNEC | 3,46 | mg/kg dw   |  |
|                     | Environment - sporadic (intermittent) release |                              | PNEC | 9,1  | mg/l       |  |
|                     | Environment - soil                            |                              | PNEC | 2,33 | mg/kg      |  |
|                     | Environment - oral (animal feed)              |                              | PNEC | 20   | mg/kg      |  |
| Consumer            | Human - inhalation                            | Long term, local effects     | DNEL | 123  | mg/m3      |  |
| Consumer            | Human - dermal                                | Short term, systemic effects | DNEL | 44,5 | mg/kg bw/d |  |
| Consumer            | Human - inhalation                            | Short term, systemic effects | DNEL | 426  | mg/m3      |  |
| Consumer            | Human - oral                                  | Short term, systemic effects | DNEL | 13,4 | mg/kg bw/d |  |
| Consumer            | Human - inhalation                            | Short term, local effects    | DNEL | 147  | mg/m3      |  |
| Consumer            | Human - dermal                                | Long term, systemic effects  | DNEL | 38   | mg/kg bw/d |  |
| Consumer            | Human - inhalation                            | Long term, systemic effects  | DNEL | 49   | mg/m3      |  |
| Consumer            | Human - oral                                  | Long term, systemic effects  | DNEL | 3,2  | mg/kg bw/d |  |
| Workers / employees | Human - dermal                                | Short term, systemic effects | DNEL | 89   | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                            | Short term, systemic effects | DNEL | 663  | mg/m3      |  |
| Workers / employees | Human - inhalation                            | Short term, local effects    | DNEL | 246  | mg/m3      |  |
| Workers / employees | Human - dermal                                | Long term, systemic effects  | DNEL | 75   | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                            | Long term, systemic effects  | DNEL | 98   | mg/m3      |  |

| Distillates (petroleum), hydrotreated heavy paraffinic |                                            |                  |            |       |            |      |
|--------------------------------------------------------|--------------------------------------------|------------------|------------|-------|------------|------|
| Area of application                                    | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit       | Note |
|                                                        | Environment - oral (animal feed)           |                  | PNEC       | 9,33  | mg/kg feed |      |

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/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)).  
 (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.

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(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). |

## 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:  
With danger of contact with eyes.  
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
Solvent resistant protective gloves (EN ISO 374).  
If applicable  
Protective nitrile gloves (EN ISO 374).  
Minimum layer thickness in mm:  
0,3  
Permeation time (penetration time) in minutes:  
> 120  
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 P3 (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

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## 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Aerosol. Active substance: liquid.                   |
| Colour:                                                   | Ochre                                                |
| Odour:                                                    | Test petrol                                          |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:                                             | Does not apply to aerosols.                          |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| 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:                                                       | n.a.                                                 |
| Kinematic viscosity:                                      | <=20,5 mm <sup>2</sup> /s (40°C)                     |
| Solubility:                                               | There is no information available on this parameter. |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:                                          | There is no information available on this parameter. |
| Density and/or relative density:                          | 0,819 g/ml (Active substance )                       |
| Relative vapour density:                                  | Does not apply to aerosols.                          |
| Particle characteristics:                                 | Does not apply to aerosols.                          |

## 9.2 Other information

No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This product is not reactive based on experiences.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur during storage and handling under normal conditions.

### 10.4 Conditions to avoid

Pressure increase will result in danger of bursting.

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

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

| Rostloeser<br>Rapid Rust Solvent   |          |       |         |          |             |                              |
|------------------------------------|----------|-------|---------|----------|-------------|------------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism | Test method | Notes                        |
| Acute toxicity, by oral route:     | ATE      | >2000 | mg/kg   |          |             | calculated value             |
| Acute toxicity, by dermal route:   |          |       |         |          |             | n.d.a.                       |
| Acute toxicity, by inhalation:     | ATE      | >20   | mg/l/4h |          |             | calculated value,<br>Vapours |
| Acute toxicity, by inhalation:     | ATE      | >5    | mg/l/4h |          |             | calculated value,<br>Aerosol |
| 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.                       |

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|                                                               |  |  |  |  |  |        |
|---------------------------------------------------------------|--|--|--|--|--|--------|
| Reproductive toxicity:                                        |  |  |  |  |  | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |  |  |  |  |  | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a. |
| Aspiration hazard:                                            |  |  |  |  |  | n.d.a. |
| Symptoms:                                                     |  |  |  |  |  | n.d.a. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <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)                                 | Analogous conclusion                                              |
| Acute toxicity, by dermal route:                                     | LD50     | >5000 | mg/kg    | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                               | Analogous conclusion                                              |
| Acute toxicity, by inhalation:                                       | LC50     | >4951 | mg/m3/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                           | Analogous conclusion, Vapours                                     |
| Skin corrosion/irritation:                                           |          |       |          |                        | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Not irritant, Analogous conclusion                                |
| Serious eye damage/irritation:                                       |          |       |          |                        | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant, Analogous conclusion                                |
| Respiratory or skin sensitisation:                                   |          |       |          |                        | OECD 406 (Skin Sensitisation)                                  | Not sensitising, Analogous conclusion                             |
| Germ cell mutagenicity:                                              |          |       |          |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion                                    |
| Germ cell mutagenicity:                                              |          |       |          |                        | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative, Analogous conclusion                                    |
| Germ cell mutagenicity:                                              |          |       |          | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                                                          |
| Carcinogenicity:                                                     |          |       |          |                        | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)   | Negative, Analogous conclusion                                    |
| Reproductive toxicity:                                               |          |       |          |                        | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion                                    |
| Specific target organ toxicity - repeated exposure (STOT-RE):        |          |       |          |                        | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative, Analogous conclusion                                    |
| Aspiration hazard:                                                   |          |       |          |                        |                                                                | Yes                                                               |
| Symptoms:                                                            |          |       |          |                        |                                                                | unconsciousness, headaches, dizziness, mucous membrane irritation |

| 2-Butoxyethanol                  |          |       |         |          |                                  |         |
|----------------------------------|----------|-------|---------|----------|----------------------------------|---------|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method                      | Notes   |
| Acute toxicity, by oral route:   | ATE      | 1200  | mg/kg   |          |                                  |         |
| Acute toxicity, by dermal route: | LD50     | 2275  | mg/kg   | Rabbit   | OECD 402 (Acute Dermal Toxicity) |         |
| Acute toxicity, by inhalation:   | ATE      | 3     | mg/l    |          |                                  | Vapours |
| Acute toxicity, by inhalation:   | ATE      | 0,5   | mg/l/4h |          |                                  | Aerosol |

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|                                                                       |       |      |            |                        |                                                                |                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------|-------|------|------------|------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation:                                            |       |      |            | Rabbit                 | Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION)     | Skin Irrit. 2, Product removes fat.                                                                                                                                                                                 |
| 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:                                               |       |      |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative                                                                                                                                                                                                            |
| 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:                                               |       |      |            |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                                                                                                                                                                                            |
| Carcinogenicity:                                                      |       |      |            | Rat                    | OECD 451 (Carcinogenicity Studies)                             | Negative                                                                                                                                                                                                            |
| Carcinogenicity:                                                      | NOAEC | 125  | ppm        | Mouse                  | OECD 451 (Carcinogenicity Studies)                             | Negative                                                                                                                                                                                                            |
| Reproductive toxicity:                                                | NOAEL | 720  | mg/kg bw/d |                        |                                                                |                                                                                                                                                                                                                     |
| Aspiration hazard:                                                    |       |      |            |                        |                                                                | No                                                                                                                                                                                                                  |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | >150 | mg/kg bw/d | Rabbit                 | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)           |                                                                                                                                                                                                                     |
| Symptoms:                                                             |       |      |            |                        |                                                                | acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:   | NOAEL | <69  | mg/kg bw/d | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                                                                                                                                                     |

#### Carbon dioxide

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

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|           |  |  |  |  |  |                                                                                                                                                                            |
|-----------|--|--|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | unconsciousness<br>, blisters by skin-<br>contact,<br>vomiting,<br>frostbite,<br>annoyance,<br>palpitations,<br>itching,<br>headaches,<br>cramps, ear<br>noises, dizziness |
|-----------|--|--|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 11.2. Information on other hazards

| Rostloeser<br>Rapid Rust Solvent |          |       |      |          |             |                                                                       |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 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. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |       |      |          |             |                                                       |
|----------------------------------------------------------------------|----------|-------|------|----------|-------------|-------------------------------------------------------|
| Toxicity / effect                                                    | Endpoint | Value | Unit | Organism | Test method | Notes                                                 |
| Other information:                                                   |          |       |      |          |             | Repeated exposure may cause skin dryness or cracking. |

| Carbon dioxide                   |          |       |      |          |             |       |
|----------------------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: |          |       |      |          |             | No    |

## SECTION 12: Ecological information

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

| Rostloeser<br>Rapid Rust Solvent |          |      |       |      |          |             |        |
|----------------------------------|----------|------|-------|------|----------|-------------|--------|
| 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. |

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|                                          |     |  |   |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------|-----|--|---|---|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.2. Persistence and degradability:     |     |  |   |   |  |  | The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| 12.3. Bioaccumulative potential:         |     |  |   |   |  |  | 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.                                                                                                                                                                                                                                                                                                           |
| Other information:                       |     |  |   |   |  |  | DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.                                                                                                                                                                                                                                                                                                            |
| Other information:                       | AOX |  | 0 | % |  |  | According to the recipe, contains no AOX.                                                                                                                                                                                                                                                                                                                                       |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |      |       |      |                                 |                                                  |       |
|----------------------------------------------------------------------|----------|------|-------|------|---------------------------------|--------------------------------------------------|-------|
| Toxicity / effect                                                    | Endpoint | Time | Value | Unit | Organism                        | Test method                                      | Notes |
| 12.1. Toxicity to fish:                                              | NOELR    | 28d  | 0,101 | mg/l | Oncorhynchus mykiss             |                                                  |       |
| 12.1. Toxicity to fish:                                              | LL50     | 96h  | >1000 | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia:                                           | EL50     | 48h  | >1000 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |
| 12.1. Toxicity to daphnia:                                           | NOELR    | 21d  | 0,176 | mg/l | Daphnia magna                   |                                                  |       |
| 12.1. Toxicity to algae:                                             | EL50     | 72h  | >1000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)          |       |

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|                                          |      |     |         |      |                       |                                                                    |                                      |
|------------------------------------------|------|-----|---------|------|-----------------------|--------------------------------------------------------------------|--------------------------------------|
| 12.2. Persistence and degradability:     |      | 28d | 80      | %    | activated sludge      | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                |
| 12.3. Bioaccumulative potential:         | BCF  |     | 10-2500 |      |                       |                                                                    | High                                 |
| 12.5. Results of PBT and vPvB assessment |      |     |         |      |                       |                                                                    | No PBT substance, No vPvB substance  |
| Other organisms:                         | EL50 | 48h | >1000   | mg/l | Tetrahymen pyriformis |                                                                    |                                      |
| Water solubility:                        |      |     |         |      |                       |                                                                    | Product floats on the water surface. |

| 2-Butoxyethanol                          |           |      |           |            |                                 |                                                                         |                                     |
|------------------------------------------|-----------|------|-----------|------------|---------------------------------|-------------------------------------------------------------------------|-------------------------------------|
| Toxicity / effect                        | Endpoint  | Time | Value     | Unit       | Organism                        | Test method                                                             | Notes                               |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 1474      | mg/l       | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                                    |                                     |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 21d  | >100      | mg/l       | Brachydanio rerio               | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)                 |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 1550      | 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  | 1840      | mg/l       | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                                 |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 286       | mg/l       | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                                 |                                     |
| 12.2. Persistence and degradability:     |           | 28d  | 95        | %          |                                 | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)      | Readily biodegradable               |
| 12.2. Persistence and degradability:     |           | 28d  | >99       | %          |                                 | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)         | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | BCF       |      | 3,2       |            |                                 |                                                                         | Slight                              |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 0,81      |            |                                 | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Not to be expected                  |
| 12.4. Mobility in soil:                  | H (Henry) |      | 0,0000016 | atm*m3/mol |                                 |                                                                         |                                     |
| 12.5. Results of PBT and vPvB assessment |           |      |           |            |                                 |                                                                         | No PBT substance, No vPvB substance |

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|                       |      |     |      |      |                    |               |  |
|-----------------------|------|-----|------|------|--------------------|---------------|--|
| Toxicity to bacteria: | EC10 | 16h | >700 | mg/l | Pseudomonas putida | DIN 38412 T.8 |  |
|-----------------------|------|-----|------|------|--------------------|---------------|--|

| Carbon dioxide                           |          |      |       |      |                 |             |                                     |
|------------------------------------------|----------|------|-------|------|-----------------|-------------|-------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism        | Test method | Notes                               |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 35    | mg/l | Salmo gairdneri |             |                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                 |             | No PBT substance, No vPvB substance |
| 12.7. Other adverse effects:             |          |      |       |      |                 |             | Greenhouse effect                   |
| Other information:                       | Log Kow  |      | 0,83  |      |                 |             |                                     |
| 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)

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

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

## 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:              | -              |  |
| 14.5. Environmental hazards:      | Not applicable |  |
| Marine Pollutant:                 | Not applicable |  |
| EmS:                              | F-D, S-U       |  |



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14.1. UN number or ID number: 1950  
14.2. UN proper shipping name:  
UN 1950 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)!  
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
Comply with trade association/occupational health regulations.

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

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 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): 58,32 %

#### REGULATION (EC) No 648/2004

30 % and more  
aliphatic hydrocarbons

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):**

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| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                              |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Asp. Tox. 1, H304                                                     | 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.

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard  
Aerosol — Aerosols  
Acute Tox. — Acute toxicity - inhalation  
Acute Tox. — Acute toxicity - oral  
Skin Irrit. — Skin irritation  
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  
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

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 Rostloeser  
 Rapid Rust Solvent

ECHA European Chemicals Agency  
 EC<sub>x</sub>, EL<sub>x</sub> (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)  
 ErC<sub>x</sub>, E<sub>μ</sub>C<sub>x</sub>, ErL<sub>x</sub> (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  
 K<sub>oc</sub> Adsorption coefficient of organic carbon in the soil  
 K<sub>ow</sub> 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  
 LC<sub>50</sub> Lethal Concentration to 50 % of a test population  
 LD<sub>50</sub> Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log K<sub>oc</sub> Logarithm of adsorption coefficient of organic carbon in the soil  
 Log K<sub>ow</sub>, Log P<sub>ow</sub> 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 ww 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

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