

**Trade name : Lithofin P&L Power Clean**

Revision date : 16.11.2023

Version (Revision) : 9.0.0 (8.0.1)

Print date : 14.12.2023

**SECTION 1: Identification of the substance/mixture and of the company/ undertaking****1.1 Product identifier**

Lithofin P&amp;L Power Clean

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

Mixture Washing and cleaning products, alkaline

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

**Distributor :** Casdron Enterprises Ltd.  
**Street :** Wood End, Prospect Road  
**Postal code/City :** New Alresford, Hants SO 24 9QF  
**Land :** GREAT BRITAIN  
**Telephone :** +44 1962 732126  
**Telefax :** +44 1962 735373  
**Contact :** Technical Department  
**E-mail :** sales@lithofin.co.uk

**Emergency telephone number :** **+44 1962 732126**  
(Only available during office hours)

**Supplier :** Lithofin AG  
**Street :** Heinrich-Otto-Str. 36  
**Postal code/City :** 73240 Wendlingen  
**Country :** GERMANY  
**Telephone :** +49 7024 9403 0  
**Telefax :** +49 7024 9403 40  
**Contact :** Technical Department  
**E-mail :** info@lithofin.de

**Emergency telephone number :** **+49 7024 9403 0**  
(Only available during office hours)

**1.4 Emergency telephone number**

see section 1.3

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Remark**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

**2.2 Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

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Exclamation mark (GHS07)

**Signal word**

Warning

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

P102 Keep out of reach of children.

P280 Wear protective gloves and eye/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local and national regulations.

**Other labelling**

**2.3 Other hazards**

**Adverse environmental effects**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**2.4 Additional information**

see section 12.5

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Hazardous ingredients**

2-BUTOXYETHANOL ; REACH No. : 01-2119475108-36-xxxx ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Specific Conc. Limits : (ATE - oral : 1200 mg/kg) • (ATE - inhalative (vapour) : 3 mg/L)

Alcohols, C12-15- branched and linear, ethoxylated propoxylated ; REACH No. : Polymer ; EC No. : 639-733-1; CAS No. : 120313-48-6

Weight fraction :  $\geq 2,5 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

Propan-2-ol ; REACH No. : 01-2119457558-25-xxxx ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

**Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH**

None (below the concentration limit)

**Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH**

None (below the concentration limit)

**Additional information**

All ingredients of this mixture are (pre)registered according to REACH regulation.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious but breathing normally, place in recovery position and seek medical advice.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

**In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

**After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

**Following ingestion**

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

Treat symptomatically.

**Special treatment**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet ABC-powder Foam

**Unsuitable extinguishing media**

Full water jet Strong water jet

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

Use suitable breathing apparatus.

**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**5.4 Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

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**6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

**6.3 Methods and material for containment and cleaning up****For cleaning up**

Suitable material for taking up: Universal binder

Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it. Dispose of waste according to applicable legislation.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

When using do not eat, drink, smoke, sniff.

**Protective measures**

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Measures to prevent fire**

The product is not: Flammable Usual measures for fire prevention.

**Fire class :** -

**Shake well before use** nein

**Advices on general occupational hygiene**

P362+P364 - Take off contaminated clothing and wash it before reuse.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

**Hints on joint storage**

**Storage class (TRGS 510) :** 10

**Protect from frost** nein

**Recommended storage temperature** 5 - 25 °C

**Further information on storage conditions**

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

**7.3 Specific end use(s)****Recommendation**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : BAT ( D )

Parameter : Butoxyacetic acid (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts

Limit value : 150 mg/g Creatinine

Version :

Limit value type (country of origin) : KZG ( D )

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Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : MAK ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Remark : SSc, H, B  
Version :

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H,Y  
Version : 23.06.2022

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxyacetic acid (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 150 mg/g Creatinine  
Version : 25.02.2022

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

Propan-2-ol ; CAS No. : 67-63-0

Limit value type (country of origin) : BAT ( D )  
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift  
Limit value : 25 mg/l / 0,4 mmol/L  
Version :

Limit value type (country of origin) : BAT ( D )  
Parameter : Acetone / Urine (U) / End of exposure or end of shift  
Limit value : 25 mg/l / 0,4 mmol/L  
Version :

Limit value type (country of origin) : KZG ( D )  
Limit value : 400 ppm / 1000 mg/m<sup>3</sup>  
Remark : SSC, B  
Version :

Limit value type (country of origin) : MAK ( D )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Remark : SSC, B  
Version :

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : Y  
Version : 23.06.2022

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift  
Limit value : 25 mg/l  
Version : 25.02.2022

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Urine (U) / End of exposure or end of shift  
Limit value : 25 mg/l  
Version : 25.02.2022

### DNEL-/PNEC-values

#### DNEL/DMEL

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2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 123 mg/kg  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 38 mg/kg/d  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 49 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 3,2 mg/kg/d  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 44,5 mg/kg/d  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 426 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Short-term  
Limit value : 13,4 mg/kg/d  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 246 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 89 mg/kg/d  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 75 mg/kg/d  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 98 mg/m<sup>3</sup>

Propan-2-ol ; CAS No. : 67-63-0

Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 319 mg/kg/d  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 89 mg/m<sup>3</sup>

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|                      |                          |
|----------------------|--------------------------|
| Limit value type :   | DNEL Consumer (systemic) |
| Exposure route :     | Oral                     |
| Exposure frequency : | Long-term                |
| Limit value :        | 26 mg/kg/d               |
| Limit value type :   | DNEL worker (systemic)   |
| Exposure route :     | Dermal                   |
| Exposure frequency : | Long-term                |
| Limit value :        | 888 mg/kg/d              |
| Limit value type :   | DNEL worker (systemic)   |
| Exposure route :     | Inhalation               |
| Exposure frequency : | Long-term                |
| Limit value :        | 500 mg/m <sup>3</sup>    |

### PNEC

2-BUTOXYETHANOL ; CAS No. : 111-76-2

|                    |                               |
|--------------------|-------------------------------|
| Limit value type : | PNEC (Aquatic, freshwater)    |
| Limit value :      | 8,8 mg/l                      |
| Limit value type : | PNEC (Aquatic, marine water)  |
| Limit value :      | 0,88 mg/l                     |
| Limit value type : | PNEC (Sediment, freshwater)   |
| Limit value :      | 34,6 mg/kg                    |
| Limit value type : | PNEC (Sediment, marine water) |
| Limit value :      | 3,46 mg/kg                    |
| Limit value type : | PNEC (Sewage treatment plant) |
| Limit value :      | 463 mg/l                      |

Propan-2-ol ; CAS No. : 67-63-0

|                    |                                      |
|--------------------|--------------------------------------|
| Limit value type : | PNEC (Aquatic, freshwater)           |
| Limit value :      | 140,9 mg/l                           |
| Limit value type : | PNEC (Aquatic, intermittent release) |
| Limit value :      | 140,9 mg/l                           |
| Limit value type : | PNEC (Aquatic, marine water)         |
| Limit value :      | 140,9 mg/l                           |
| Limit value type : | PNEC (Sediment, freshwater)          |
| Limit value :      | 552 mg/kg                            |
| Limit value type : | PNEC (Sediment, marine water)        |
| Limit value :      | 552 mg/kg                            |
| Limit value type : | PNEC (Secondary poisoning)           |
| Limit value :      | 160 mg/kg                            |
| Limit value type : | PNEC (Sewage treatment plant)        |
| Limit value :      | 2251 mg/l                            |

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation of the storage area.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Personal protection equipment

#### Eye/face protection

Usually no personal eye/face protection necessary. Eye/face protection necessary at: Splashes, Contact with eyes, Spray application.

#### Suitable eye protection

Eye glasses with side protection goggles

#### Required properties

EN 166

#### Skin protection

Usually no personal skin protection necessary. Skin protection necessary at: Splashes, Contact with skin, Spray application.

#### Hand protection

**Suitable gloves type** : Gloves with long cuffs

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**Suitable material** : Data apply to the main component. Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

**Required properties** : EN ISO 374

**Recommended glove articles** : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

**Additional hand protection measures** : Check leak tightness/impermeability prior to use.

**Remark** : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams are not substitutes for body protection.

### Body protection

Protective clothing.

**Suitable protective clothing** : Chemical protection clothing Chemical resistant safety shoes

**Required properties** : alkali-resistant.

Protective clothing. : EN 13034 EN 14605

Chemical resistant safety shoes : EN ISO 20345

**Remark** : Barrier creams are not substitutes for body protection.

### Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

#### Suitable respiratory protection apparatus

Full-/half-/quarter-face masks (EN 136/140) Combination filtering device (EN 14387) ABEK-P1 (EN14387)

#### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General information

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** : Liquid

**Colour** : light yellow

**Odour** : fruity

#### Safety characteristics

**Melting point/freezing point** : ( 1013 hPa ) approx. -3 °C

**Initial boiling point and boiling range** : ( 1013 hPa ) approx. 97 °C

**Decomposition temperature** : ( 1013 hPa ) not determined

**Flash point** : approx. 57 °C closed cup (EN ISO 3679)

**Auto-ignition temperature** : not determined

**Sustaining combustion** : No UN Test L2:Sustained combustibility test

**Lower explosion limit** : not determined

**Upper explosion limit** : not determined

**Vapour pressure** : ( 50 °C ) < 3000 hPa

**Density** : ( 20 °C ) 1 g/cm<sup>3</sup> Pycnometer (DIN EN ISO 2811-1)

**Solvent separation test** : ( 20 °C ) < 3 % Test L1: Solvent separation test (UN)

**Water solubility** : ( 20 °C ) miscible

**pH** : approx. 8 DIN 19268



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|                             |           |                |             |                                       |
|-----------------------------|-----------|----------------|-------------|---------------------------------------|
| <b>log P O/W :</b>          |           | not determined |             | (Mixture)                             |
| <b>Flow time :</b>          | ( 23 °C ) | approx.        | 13 s        | ISO cup 4 mm<br>(DIN EN ISO 2431)     |
| <b>Odour threshold :</b>    |           | not determined |             |                                       |
| <b>Vapourisation rate :</b> |           | not determined |             |                                       |
| <b>VOC content-EC</b>       |           |                | 12 Weight-% | *                                     |
| <b>VOC content-EC</b>       |           |                | 119 g/l     | *                                     |
| <b>VOC-France</b>           |           | not applicable |             | Décret no 2011-321 du<br>23 mars 2011 |

(\* VOC-EC = „Volatile organic compound (VOC)“ means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

### 10.5 Incompatible materials

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Acute oral toxicity

Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )

Exposure route : Oral

Species : Rat

Effective dose : 1300 mg/kg

Method : OECD 401

Parameter : LD50 ( Alcohols, C12-15- branched and linear, ethoxylated propoxylated ; CAS No. : 120313-48-6 )

Exposure route : Oral

Species : Rat

Effective dose : > 2000 mg/kg

Parameter : LD50 ( Propan-2-ol ; CAS No. : 67-63-0 )

Exposure route : Oral

Species : Rat

Effective dose : 5840 mg/kg

Method : OECD 401

#### Acute dermal toxicity

Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )

Exposure route : Dermal

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Species : Guinea pig  
Effective dose : > 2000 mg/l  
Method : OECD 402  
Parameter : LD50 ( Alcohols, C12-15- branched and linear, ethoxylated propoxylated ; CAS No. : 120313-48-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( Propan-2-ol ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 13900 mg/kg  
Method : OECD 402

### Acute inhalation toxicity

Parameter : LC50 ( Propan-2-ol ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 25 mg/l  
Exposure time : 6 h  
Method : OECD 403

### Specific effects (Longterm animal experiment)

There are no data available on the preparation/mixture itself.

### Corrosion

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

### Repeated dose toxicity (subacute, subchronic, chronic)

There are no data available on the preparation/mixture itself.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Based on available data, the classification criteria are not met.

#### Chronic (long-term) fish toxicity

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Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Fish  
Effective dose : > 100 mg/l  
Exposure time : 21 D

**Chronic (long-term) toxicity to aquatic invertebrate**

Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia  
Effective dose : 100 mg/l  
Exposure time : 21 D  
Method : OECD 211

**Acute (short-term) toxicity to algae and cyanobacteria**

Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia  
Effective dose : 1550 mg/l  
Exposure time : 48 h  
Method : OECD 202

Parameter : EC50 ( Alcohols, C12-15- branched and linear, ethoxylated propoxylated ; CAS No. : 120313-48-6 )

Species : Daphnia  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h

Parameter : EC50 ( Propan-2-ol ; CAS No. : 67-63-0 )

Species : Daphnia  
Effective dose : 9714 mg/l  
Exposure time : 24 h

**Sewage treatment plant**

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

**12.2 Persistence and degradability**

There are no data available on the preparation/mixture itself.

**Biodegradation**

The surfactants contained in this mixture 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**

There are no data available on the preparation/mixture itself.

**12.4 Mobility in soil**

There are no data available on the preparation/mixture itself.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

There are no data available on the preparation/mixture itself.

**12.8 Additional ecotoxicological information**

**Additional information**

The product has not been tested.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Dispose of waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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( EN / D )

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## Directive 2008/98/EC (Waste Framework Directive)

### Before intended use

#### Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 07 06 08\* (other still bottoms and reaction residues)

### After intended use

Do not allow to enter into surface water or drains. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Delivery to an approved waste disposal company.

#### Disposal operations

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

#### Waste codes/waste designations according to EWC/AVV

Waste code packaging: 15 01 10\*

## 13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

Not required.

## SECTION 15: Regulatory information

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

#### EU legislation

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures (clp)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste (2000/532/EC)  
EN 2:1992 (DIN EN 2:2005-01)

#### Authorisations and/or restrictions on use

##### Restrictions on use

##### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

##### Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### Other regulations (EU)

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Regulation (EC) No. 648/2004 [Detergents regulation]  
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

### **Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer**

Not listed/not relevant.

Contains the following substances that deplete the ozone layer: -

### **Regulation (EC) 2019/1021 [POP Regulation]**

Not listed/not relevant.

Name of the persistent organic pollutant (POP): -

### **Regulation (EU) 2019/1148 (marketing and use of explosives precursors)**

Not listed/not relevant.

### **Regulation (EU) 649/2012 (PIC)**

Not listed/not relevant.

Chemicals qualifying for PIC notification: -

### **National regulations**

Observe in addition any national regulations!

Germany:

TRGS 400 (Risk assessment for activities involving hazardous substances)

TRGS 500 (Protective measures)

TRGS 510 (Storage of hazardous substances in non-stationary containers)

TRGS 555 (Working instruction and information for workers)

### **Water hazard class**

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

### **Other regulations, restrictions and prohibition regulations**

#### **Switzerland**

#### **VOCV-Regulation**

Maximum VOC content (Switzerland) : 11,1 Weight-% according to VOCV

## **15.2 Chemical Safety Assessment**

For this substance/mixture a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

### **16.1 Indication of changes**

03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Restrictions on use · 15. Water hazard class

### **16.2 Abbreviations and acronyms**

|                     |   |
|---------------------|---|
| ABC-Pulver          | Extinguishing powder for fire class A, B and C                                      |
| ABEK-P1             | combination filter  |
| ADR                 | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AVV                 | Abfallverzeichnis-Verordnung (Waste Regulation)                                     |
| AWSV                | Ordinance on facilities for the handling of substances hazardous to water           |
| BGR                 | BG rules and regulations  |
| ca.                 | circa   |
| CAS                 | Chemical Abstracts Service  |
| CLP                 | classification, labelling and packaging   |
| CMR                 | Carcinogen, mutagen or toxic for reproduction                                       |
| DIN                 | German Institute for Standardization  |
| DNEL                | Derived No-Effect Level   |
| EAK/EWC/EAC/CWR/CER | European Waste Catalogue  |
| EC50 / CE50         | Effective Concentration 50%   |
| EG / EC / CE        | European Community  |
| EN                  | European Standard   |
| EUH                 | supplemental hazard statement of the european union                                 |
| GefStoffV           | Gefahrstoffverordnung (Hazardous Substances Ordinance)                              |

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|                 |   |
|-----------------|---|
| GHS / SGH       | Globally Harmonised System  |
| H-Sätze         | hazard statements   |
| IATA-DGR        | International Air Transport Association-Dangerous Goods Regulations                                 |
| IBC-Code        | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO-TI         | International Civil Aviation Organization-Technical Instructions                                    |
| IMDG-Code       | International Maritime Dangerous Goods Code   |
| ISO             | International Organization for Standardization  |
| LC50 / CL50     | Lethal Concentration 50%  |
| LD50 / DL50     | Lethal Dose 50%   |
| log P O/W       | Partition coefficient n-octanol/water   |
| MARPOL          | International Convention for the Prevention of Pollution from Ships (marine pollution)              |
| NOAEL (DSET)    | No observed adverse effect level  |
| NOEC (CSEO)     | No observed effect concentration  |
| Nr.             | Number  |
| OECD            | Organisation for Economic Co-operation and Development  |
| PBT             | persistent, bioaccumulative and toxic   |
| pH              | Potentia hydrogenii   |
| PIC             | prior informed consent  |
| PNEC            | Predicted No-Effect Concentration   |
| POP             | Persistent organic pollutants   |
| P-Sätze         | precautionary statements  |
| REACH           | Registration, Evaluation, Authorisation and Restriction of Chemicals                                |
| RID             | International Carriage of Dangerous Goods by Rail   |
| STEL / LECT     | short-term exposure limit   |
| TRGS            | Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)                       |
| TWA / MPT       | time-weighted average   |
| UN/ONU          | United Nations  |
| VOC/COV/VOS/LZO | Volatile Organic Compound   |
| VOCV            | Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)                           |
| vPvB            | very persistent and very bioaccumulative  |
| WGK             | Wassergefährdungsklasse (Water hazard class)  |

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
ECHA: Registered substances (<https://echa.europa.eu/information-on-chemicals/registered-substances>)  
REACH Article 59: Candidate List of substances of very high concern for Authorisation  
(<https://echa.europa.eu/candidate-list-table>)

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard statements for physical hazards : On basis of test data.  
Hazard statements for health hazards : Calculation method.  
Hazard statements for environmental hazards : Calculation method.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed.               |
| H315 | Causes skin irritation.             |
| H319 | Causes serious eye irritation.      |

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|      |  |
|------|--|
| H331 | Toxic if inhaled.                                  |
| H336 | May cause drowsiness or dizziness.                 |
| H400 | Very toxic to aquatic life.                        |
| H412 | Harmful to aquatic life with long lasting effects. |

## 16.6 Training advice

None

## 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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