

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**

( EN / D )

**Trade name : Lithofin Abra-CLEAN**

Revision date : 23.06.2025  
Print date : 11.07.2025

Version (Revision) : 9.0.1 (9.0.0)

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

**1.1 Product identifier**

Lithofin Abra-CLEAN

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

Mixture Washing and cleaning products, Contains: organic solvents 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 Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

**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**

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**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



Corrosion (GHS05)

**Signal word**

Danger

**Hazard components for labelling**

2-AMINOETHANOL ; CAS No. : 141-43-5

**Hazard statements**

H318 Causes serious eye damage.  
H315 Causes skin irritation.

**Precautionary statements**

P102 Keep out of reach of children.  
P280 Wear protective gloves and eye protection/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**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH No. : 01-2119453414-43-xxxx ; EC No. : 920-107-4; CAS No. : (64742-47-8)

Weight fraction :  $\geq 20 - < 25$  %  
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 EUH066

2-AMINOETHANOL ; REACH No. : 01-2119486455-28-xxxx ; EC No. : 205-483-3; CAS No. : 141-43-5

Weight fraction :  $\geq 3 - < 5$  %  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

Specific Conc. Limits : STOT SE 3 ; H335: C  $\geq 5$  %

Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; REACH No. : 01-2119488639-16-xxxx ; EC No. : 500-234-8; CAS No. : 68891-38-3

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412  
Specific Conc. Limits : Eye Dam. 1 ; H318: C  $\geq 10$  % • Eye Irrit. 2 ; H319: C  $\geq 5$  %

Alcohols, C12-14, ethoxylated ; REACH No. : 01-2119487984-16-xxxx ; EC No. : 500-213-3; CAS No. : 68439-50-9

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Weight fraction :  $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

**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.

## **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**

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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. Co-ordinate 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.

### 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 :** B

**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

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## 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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8)

Limit value type (country of origin) : KZW ( A )

Limit value : 400 ppm

Peak limitation : 30 Min, 4x

Version :

Limit value type (country of origin) : TMW / TWA ( A )

Limit value : 200 ppm

Version :

Limit value type (country of origin) : KZG / STEL ( CH )

Limit value : 100 ppm / 700 mg/m<sup>3</sup>

Remark : SSc

Version :

Limit value type (country of origin) : MAK ( CH )

Limit value : 50 ppm / 350 mg/m<sup>3</sup>

Remark : SSc

Version :

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 300 mg/m<sup>3</sup>

Peak limitation : 2(II)

Version :

Limit value type (country of origin) : TWA ( N )

Limit value : 50 ppm / 275 mg/m<sup>3</sup>

Remark : (White Spirit, < 22% aromatic compounds)

Version :

2-AMINOETHANOL ; CAS No. : 141-43-5

Limit value type (country of origin) : KZW ( A )

Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>

Peak limitation : 15Miw, 4x

Remark : Sh

Version :

Limit value type (country of origin) : TMW / TWA ( A )

Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>

Peak limitation : 15Miw, 4x

Remark : Sh

Version :

Limit value type (country of origin) : STEL ( AUS )

Limit value : 6 ppm / 15 mg/m<sup>3</sup>

Remark : Sk

Version :

Limit value type (country of origin) : TWA ( AUS )

Limit value : 3 ppm / 7,5 mg/m<sup>3</sup>

Remark : Sk

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Version :  
Limit value type (country of origin) : STEL ( B )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : D  
Version :  
Limit value type (country of origin) : TWA ( B )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : D  
Version :  
Limit value type (country of origin) : KZG / STEL ( CH )  
Limit value : 4 ppm / 10 mg/m<sup>3</sup>  
Remark : S  
Version :  
Limit value type (country of origin) : MAK ( CH )  
Limit value : 2 ppm / 5 mg/m<sup>3</sup>  
Remark : S  
Version :  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 0,2 ppm / 0,5 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : H, Sh, Y  
Version : 17.06.2024  
Limit value type (country of origin) : TWA ( DK )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : EH  
Version :  
Limit value type (country of origin) : VLA-EC / STEL ( E )  
Limit value : 3 ppm / 7,5 mg/m<sup>3</sup>  
Remark : vía dérmica, VLI  
Version :  
Limit value type (country of origin) : VLA-ED / TWA ( E )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : vía dérmica, VLI  
Version :  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : Skin  
Version : 09.03.2022  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : Skin  
Version : 09.03.2022  
Limit value type (country of origin) : VLEP 8h / TWA ( F )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Version :  
Limit value type (country of origin) : VLEP CT / STEL ( F )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Version :  
Limit value type (country of origin) : STEL ( GB )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : Sk  
Version :  
Limit value type (country of origin) : TWA ( GB )

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Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : Sk  
Version :

Limit value type (country of origin) : ÁK ( H )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : b  
Version :

Limit value type (country of origin) : CK-érték / STEL ( H )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : b  
Version :

Limit value type (country of origin) : STEL ( I )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : Cute  
Version :

Limit value type (country of origin) : TWA ( I )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : Cute  
Version :

Limit value type (country of origin) : OELV 15 min / STEL ( IRL )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : Sk, IOELV  
Version :

Limit value type (country of origin) : OELV 8h / TWA ( IRL )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : Sk, IOELV  
Version :

Limit value type (country of origin) : TWA ( N )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : HE  
Version :

Limit value type (country of origin) : TGG 15 min / STEL ( NL )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : H  
Version :

Limit value type (country of origin) : TGG 8 uur / TWA ( NL )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : H  
Version :

Limit value type (country of origin) : STEL ( NZ )  
Limit value : 0,2 ppm / 0,5 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : TWA ( NZ )  
Limit value : 0,2 ppm / 0,5 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : NDSCH ( PL )  
Limit value : 7,5 mg/m<sup>3</sup>  
Remark : skóra  
Version :

Limit value type (country of origin) : NDS ( PL )  
Limit value : 2,5 mg/m<sup>3</sup>  
Remark : skóra  
Version :

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Limit value type (country of origin) : STEL ( ROK )  
Limit value : 6 ppm  
Version :

Limit value type (country of origin) : TWA ( ROK )  
Limit value : 3 ppm  
Version :

Limit value type (country of origin) : ACGIH STEL ( USA )  
Limit value : 6 ppm / 15 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : ACGIH TLV ( USA )  
Limit value : 3 ppm / 8 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : NIOSH REL STEL ( USA )  
Limit value : 6 ppm / 15 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : NIOSH REL TWA ( USA )  
Limit value : 3 ppm / 8 mg/m<sup>3</sup>  
Version :

Limit value type (country of origin) : OSHA PEL TWA ( USA )  
Limit value : 3 ppm / 6 mg/m<sup>3</sup>  
Version :

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT ; CAS No. : 3811-73-2

Limit value type (country of origin) : KZW ( A )  
Limit value : 4 mg/m<sup>3</sup>  
Peak limitation : 15Miw, 4x  
Remark : H  
Version :

Limit value type (country of origin) : TMW / TWA ( A )  
Limit value : 1 mg/m<sup>3</sup>  
Remark : H  
Version :

Limit value type (country of origin) : KZG / STEL ( CH )  
Parameter : E: inhalable fraction  
Limit value : 0,4 mg/m<sup>3</sup>  
Remark : SSC, H  
Version :

Limit value type (country of origin) : MAK ( CH )  
Parameter : E: inhalable fraction  
Limit value : 0,2 mg/m<sup>3</sup>  
Remark : SSC,H  
Version :

Limit value type (country of origin) : TWA ( DK )  
Limit value : 1 mg/m<sup>3</sup>  
Remark : H  
Version :

**DNEL-/PNEC-values**

**DNEL/DMEL**

2-AMINOETHANOL ; CAS No. : 141-43-5

Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 0,28 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)

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|                                                                              |                          |
|------------------------------------------------------------------------------|--------------------------|
| Exposure route :                                                             | Oral                     |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 1,5 mg/kg bw/day         |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Dermal                   |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 1,5 mg/kg bw/day         |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Inhalation               |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 0,18 mg/m <sup>3</sup>   |
| Limit value type :                                                           | DNEL worker (local)      |
| Exposure route :                                                             | Inhalation               |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 0,51 mg/m <sup>3</sup>   |
| Limit value type :                                                           | DNEL worker (systemic)   |
| Exposure route :                                                             | Dermal                   |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 3 mg/kg bw/day           |
| Limit value type :                                                           | DNEL worker (systemic)   |
| Exposure route :                                                             | Inhalation               |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 1 mg/m <sup>3</sup>      |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 |                          |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Oral                     |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 15 mg/kg bw/day          |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Dermal                   |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 1650 mg/kg bw/day        |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Inhalation               |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 52 mg/m <sup>3</sup>     |
| Limit value type :                                                           | DNEL worker (systemic)   |
| Exposure route :                                                             | Dermal                   |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 2750 mg/kg bw/day        |
| Limit value type :                                                           | DNEL worker (systemic)   |
| Exposure route :                                                             | Inhalation               |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 175 mg/m <sup>3</sup>    |
| Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9                         |                          |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Oral                     |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 1,33 mg/kg bw/day        |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Dermal                   |
| Exposure frequency :                                                         | Long-term                |
| Limit value :                                                                | 66,7 mg/kg bw/day        |
| Limit value type :                                                           | DNEL Consumer (systemic) |
| Exposure route :                                                             | Inhalation               |

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|                      |                        |
|----------------------|------------------------|
| Exposure frequency : | Long-term              |
| Limit value :        | 3,48 mg/m <sup>3</sup> |
| Limit value type :   | DNEL worker (systemic) |
| Exposure route :     | Dermal                 |
| Exposure frequency : | Long-term              |
| Limit value :        | 187 mg/kg bw/day       |
| Limit value type :   | DNEL worker (systemic) |
| Exposure route :     | Inhalation             |
| Exposure frequency : | Long-term              |
| Limit value :        | 19,6 mg/m <sup>3</sup> |

## PNEC

2-AMINOETHANOL ; CAS No. : 141-43-5

|                    |                                      |
|--------------------|--------------------------------------|
| Limit value type : | PNEC (Aquatic, freshwater)           |
| Limit value :      | 0,07 mg/l                            |
| Limit value type : | PNEC (Aquatic, intermittent release) |
| Limit value :      | 0,028 mg/l                           |
| Limit value type : | PNEC (Aquatic, marine water)         |
| Limit value :      | 0,007 mg/l                           |
| Limit value type : | PNEC (Sediment, freshwater)          |
| Limit value :      | 0,357 mg/kg dw                       |
| Limit value type : | PNEC (Sediment, marine water)        |
| Limit value :      | 0,036 mg/kg dw                       |
| Limit value type : | PNEC (Soil)                          |
| Limit value :      | 1,29 mg/kg dw                        |
| Limit value type : | PNEC (Sewage treatment plant)        |
| Limit value :      | 100 mg/l                             |

Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3

|                    |                                      |
|--------------------|--------------------------------------|
| Limit value type : | PNEC (Aquatic, freshwater)           |
| Limit value :      | 0,24 mg/l                            |
| Limit value type : | PNEC (Aquatic, intermittent release) |
| Limit value :      | 0,071 mg/l                           |
| Limit value type : | PNEC (Aquatic, marine water)         |
| Limit value :      | 0,024 mg/l                           |
| Limit value type : | PNEC (Sediment, freshwater)          |
| Limit value :      | 0,917 mg/kg dw                       |
| Limit value type : | PNEC (Sediment, marine water)        |
| Limit value :      | 0,092 mg/kg dw                       |
| Limit value type : | PNEC (Soil)                          |
| Limit value :      | 7,5 mg/kg dw                         |
| Limit value type : | PNEC (Sewage treatment plant)        |
| Limit value :      | 10000 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

##### Suitable eye protection

Eye glasses with side protection goggles

##### Required properties

EN 166

#### Skin protection

##### Hand protection

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

**Suitable material :** NBR (Nitrile rubber), 0,4mm, >8h; 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 ABEK-P1

### 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 :** viscous

**Colour :** beige

**Odour :** fruity

### Safety characteristics

**Melting point/freezing point :** ( 1013 hPa ) < -20 °C

**Initial boiling point and boiling range :** ( 1013 hPa ) > 100 °C

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

**Flash point :** > 100 °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 ) 1,3 g/cm<sup>3</sup> Pyknometer (DIN EN ISO 2811-1)

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|                                  |           |                 |                 |                                       |
|----------------------------------|-----------|-----------------|-----------------|---------------------------------------|
| <b>Relative density :</b>        | ( 20 °C ) |                 | not determined  |                                       |
| <b>Solvent separation test :</b> | ( 20 °C ) | <               | 3 %             | Test L1: Solvent separation test (UN) |
| <b>Water solubility</b>          | ( 20 °C ) |                 | emulsifiable    |                                       |
| <b>Fat solubility :</b>          | ( 20 °C ) |                 | Not determined. |                                       |
| <b>pH :</b>                      |           | approx.         | 10              | DIN 19268                             |
| <b>log P O/W :</b>               |           |                 | not determined  | (Mixture)                             |
| <b>Flow time :</b>               | ( 23 °C ) | >               | 1437 s          | ISO cup 4 mm (DIN EN ISO 2431)        |
| <b>Odour threshold :</b>         |           |                 | not determined  |                                       |
| <b>Vapourisation rate :</b>      |           |                 | not determined  |                                       |
| <b>VOC content-EC</b>            |           |                 | 23,2            | Weight-% *                            |
| <b>VOC content-EC</b>            |           |                 | 302             | g/l *                                 |
| <b>VOC-France</b>                |           |                 | not applicable  | Décret no 2011-321 du 23 mars 2011    |
| <b>Flammable solids :</b>        |           | Not determined. |                 |                                       |

(\* 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 ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) ) |
| Exposure route : | Oral                                                                                                    |
| Species :        | Rat                                                                                                     |
| Effective dose : | > 5000 mg/kg                                                                                            |
| Parameter :      | LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )                                                            |
| Exposure route : | Oral                                                                                                    |
| Species :        | Rat                                                                                                     |
| Effective dose : | 1089 mg/kg                                                                                              |

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|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| Method :         | OECD 401                                                                              |
| Parameter :      | LD50 ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 ) |
| Exposure route : | Oral                                                                                  |
| Species :        | Rat                                                                                   |
| Effective dose : | > 2000 mg/kg                                                                          |
| Method :         | OECD 401                                                                              |
| Parameter :      | LD50 ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )                         |
| Exposure route : | Oral                                                                                  |
| Species :        | Rat                                                                                   |
| Effective dose : | > 2000 mg/kg                                                                          |

## Acute dermal toxicity

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Parameter :      | LD50 ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) ) |
| Exposure route : | Dermal                                                                                                  |
| Species :        | Rat                                                                                                     |
| Effective dose : | > 2000 mg/kg                                                                                            |
| Parameter :      | LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )                                                            |
| Exposure route : | Dermal                                                                                                  |
| Species :        | Rabbit                                                                                                  |
| Effective dose : | 2504 mg/kg                                                                                              |
| Parameter :      | LD50 ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 )                   |
| Exposure route : | Dermal                                                                                                  |
| Species :        | Rat                                                                                                     |
| Effective dose : | > 2000 mg/kg                                                                                            |
| Method :         | OECD 402                                                                                                |

## Acute inhalation toxicity

|                  |                                              |
|------------------|----------------------------------------------|
| Parameter :      | LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 ) |
| Exposure route : | Inhalation                                   |
| Species :        | Rat                                          |
| Effective dose : | 1300 mg/m <sup>3</sup>                       |
| Exposure time :  | 6 h                                          |

## 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 damage.

## 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

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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.

##### Acute (short-term) fish toxicity

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Parameter :            | LC50 ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) ) |
| Species :              | Fish                                                                                                    |
| Evaluation parameter : | Acute (short-term) fish toxicity                                                                        |
| Effective dose :       | > 1000 mg/l                                                                                             |
| Exposure time :        | 96 hour(s)                                                                                              |
| Method :               | OECD 203                                                                                                |
| Parameter :            | LC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )                                                            |
| Species :              | Fish                                                                                                    |
| Evaluation parameter : | Acute (short-term) fish toxicity                                                                        |
| Effective dose :       | 105 mg/l                                                                                                |
| Exposure time :        | 96 hour(s)                                                                                              |
| Parameter :            | LC50 ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 )                   |
| Species :              | Fish                                                                                                    |
| Evaluation parameter : | Acute (short-term) fish toxicity                                                                        |
| Effective dose :       | 7,1 mg/l                                                                                                |
| Exposure time :        | 96 hour(s)                                                                                              |
| Method :               | OECD 203                                                                                                |
| Parameter :            | LC50 ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )                                           |
| Species :              | Fish                                                                                                    |
| Evaluation parameter : | Acute (short-term) fish toxicity                                                                        |
| Effective dose :       | 0,423 mg/l                                                                                              |
| Exposure time :        | 96 hour(s)                                                                                              |
| Method :               | OECD 203                                                                                                |

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

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| Parameter :            | NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )                                          |
| Species :              | Fish                                                                                  |
| Evaluation parameter : | Chronic (long-term) fish toxicity                                                     |
| Effective dose :       | 1,2 mg/l                                                                              |
| Parameter :            | NOEC ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 ) |
| Species :              | Fish                                                                                  |
| Evaluation parameter : | Chronic (long-term) fish toxicity                                                     |
| Effective dose :       | 0,14 mg/l                                                                             |
| Exposure time :        | 28 day(s)                                                                             |
| Method :               | OECD 215                                                                              |
| Parameter :            | NOEC ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )                         |
| Species :              | Fish                                                                                  |
| Evaluation parameter : | Chronic (long-term) fish toxicity                                                     |
| Effective dose :       | 0,251 mg/l                                                                            |
| Exposure time :        | 28 day(s)                                                                             |

##### Acute (short-term) toxicity to aquatic invertebrates

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Parameter : LC50 ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) toxicity to aquatic invertebrates  
Effective dose : > 1000 mg/l  
Exposure time : 48 hour(s)  
Method : OECD 202  
Parameter : EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) toxicity to aquatic invertebrates  
Effective dose : 27 mg/l  
Exposure time : 48 hour(s)  
Method : OECD 202  
Parameter : EC50 ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) toxicity to aquatic invertebrates  
Effective dose : 7,4 mg/l  
Exposure time : 48 hour(s)  
Method : OECD 202  
Parameter : EC50 ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) toxicity to aquatic invertebrates  
Effective dose : 0,125 mg/l  
Exposure time : 48 hour(s)  
Method : OECD 202

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

Parameter : NOEC ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : > 1000 mg/l  
Exposure time : 21 day(s)  
Parameter : NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 0,85 mg/l  
Parameter : NOEC ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 0,27 mg/l  
Exposure time : 21 day(s)  
Parameter : NOEC ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 0,054 mg/l  
Exposure time : 21 day(s)

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

Parameter : EC50 ( Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-47-8) )  
Species : Algae  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 1000 mg/l  
Exposure time : 72 hour(s)  
Method : OECD 201  
Parameter : EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Algae

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|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| Evaluation parameter : | Acute (short-term) toxicity to algae and cyanobacteria                                |
| Effective dose :       | 22 mg/l                                                                               |
| Exposure time :        | 72 hour(s)                                                                            |
| Parameter :            | EC50 ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 ) |
| Species :              | Algae                                                                                 |
| Evaluation parameter : | Acute (short-term) toxicity to algae and cyanobacteria                                |
| Effective dose :       | 27,7 mg/l                                                                             |
| Exposure time :        | 72 hour(s)                                                                            |
| Method :               | OECD 201                                                                              |
| Parameter :            | EC50 ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )                         |
| Species :              | Algae                                                                                 |
| Evaluation parameter : | Acute (short-term) toxicity to algae and cyanobacteria                                |
| Effective dose :       | 0,0445 mg/l                                                                           |
| Exposure time :        | 72 hour(s)                                                                            |
| Method :               | OECD 201                                                                              |

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| Parameter :            | NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )                                          |
| Species :              | Algae                                                                                 |
| Evaluation parameter : | Chronic (long-term) toxicity to aquatic algae and cyanobacteria                       |
| Effective dose :       | 0,7 mg/l                                                                              |
| Parameter :            | NOEC ( Alcohols, C12-14, ethoxylated, sulfates, sodium salts ; CAS No. : 68891-38-3 ) |
| Species :              | Algae                                                                                 |
| Evaluation parameter : | Chronic (long-term) toxicity to aquatic algae and cyanobacteria                       |
| Effective dose :       | 0,95 mg/l                                                                             |
| Exposure time :        | 72 hour(s)                                                                            |
| Method :               | OECD 201                                                                              |
| Parameter :            | NOEC ( Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9 )                         |
| Species :              | Algae                                                                                 |
| Evaluation parameter : | Chronic (long-term) toxicity to aquatic algae and cyanobacteria                       |
| Effective dose :       | 0,034 mg/l                                                                            |
| Exposure time :        | 72 hour(s)                                                                            |
| Method :               | OECD 201                                                                              |

### 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.

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**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.

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

**Before intended use**

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

Waste code (EWC/AVV) : 07 06 04\* (other organic solvents, washing liquids and mother liquors)

**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

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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)

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 (EU) 2024/590 on substances that deplete 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) : 20,2 Weight-% according to VOCV

### 15.2 Chemical Safety Assessment

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

### 15.3 Additional information

## SECTION 16: Other information

### 16.1 Indication of changes

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 |

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|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| 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)                                              |
| 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                                                            |

# Safety Data Sheet

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

( EN / D )

**Trade name :** Lithofin Abra-CLEAN

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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)

|        |                                                       |
|--------|-------------------------------------------------------|
| H302   | Harmful if swallowed.                                 |
| H304   | May be fatal if swallowed and enters airways.         |
| H312   | Harmful in contact with skin.                         |
| H314   | Causes severe skin burns and eye damage.              |
| H315   | Causes skin irritation.                               |
| H318   | Causes serious eye damage.                            |
| H332   | Harmful if inhaled.                                   |
| H335   | May cause respiratory irritation.                     |
| H400   | Very toxic to aquatic life.                           |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

### 16.6 Training advice

None

### 16.7 Additional information

None

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.