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Revision date / version: 20.01.2023 / 0016

Replacing version dated / version: 14.07.2022 / 0015

Valid from: 20.01.2023 PDF print date: 20.01.2023

Drilling and Cutting Emulsion - water soluble

5 I Art.: 6580 5810, Art.: 6584 5810

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

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

#### 1.1 Product identifier

## **Drilling and Cutting Emulsion - water soluble**

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

Cooling lubricant

#### Uses advised against:

No information available at present.

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

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199

Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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

## 1.4 Emergency telephone number

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

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

+49 (0) 700 / 24 112 112 (TFC)

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

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Eye Dam. 1 H318-Causes serious eye damage.

Skin Sens. 1 H317-May cause an allergic skin reaction.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H318-Causes serious eye damage. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

1,2-benzisothiazol-3(2H)-one

2-amino-2-ethylpropanediol

Amides, C12-18 and C18-unsatd., N-(hydroxyethyl), ethoxylated

Polysulfides, di-tert-dodecyl

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

## n.a. 3.2 Mixtures

| •  |                       |
|--|-----------------------|
| Distillates (petroleum), hydrotreated light naphthenic                 |                       |
| Registration number (REACH)  | 01-2119480375-34-XXXX |
| Index  | 649-466-00-2          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 265-156-6             |
| CAS  | 64742-53-6            |
| content %  | 50-<70                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1. H304     |

| Alcohols, C16-18 and C18-unsatd., ethoxylated                          |                        |
|--|------------------------|
| Registration number (REACH)  | 01-2119489407-26-XXXX  |
| Index  |                        |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 500-236-9              |
| CAS  | 68920-66-1             |
| content %  | 1-<10                  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Irrit. 2, H315    |
|  | Aquatic Chronic 2 H411 |

| 01-2119484627-25-XXXX |
|-----------------------|
| 649-467-00-8          |
| 265-157-1             |
| 64742-54-7            |
| 1-<10                 |
|                       |



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|  |   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304                                       |
| 2-(2-butoxyethoxy)ethanol  | Substance for which an EU exposure limit value applies. |
| Registration number (REACH)  | 01-2119475104-44-XXXX                                   |
| Index  | 603-096-00-8  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 203-961-6   |
| CAS  | 112-34-5  |
| content %  | 1-<5  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Irrit. 2, H319                                      |
| Classification according to Regulation (EC) 12/2/2000 (CEF), M-factors | Lye IIII. 2, 11019                                      |
| Polysulfides, di-tert-dodecyl  |   |
| Registration number (REACH)  | 01-2119540516-41-XXXX                                   |
| Index  |   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 270-335-7   |
| CAS  | 68425-15-0  |
| content %  | 1-<5  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Sens. 1B, H317                                     |
| <b>33</b> (), (),  |   |
| Amides, C12-18 and C18-unsatd., N-(hydroxyethyl), ethoxylated          |   |
| Registration number (REACH)  |   |
| Index  |   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 500-350-9   |
| CAS  | 157707-44-3   |
| content %  | 1-<3  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Dam. 1, H318  |
|  |   |
| 2-amino-2-ethylpropanediol   |   |
| Registration number (REACH)  | 01-2119958191-37-XXXX                                   |
| Index  |   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 204-101-2   |
| CAS  | 115-70-8  |
| content %  | 1-<3  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Dam. 1, H318  |
|  |   |
| 1,2-benzisothiazol-3(2H)-one   |   |
| Registration number (REACH)  |   |
| Index  | 613-088-00-6  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 220-120-9   |
| CAS  | 2634-33-5   |
| content %  | 0.01-<0.05  |

| Registration number (REACH)  |                              |
|--|------------------------------|
| Index  | 613-088-00-6                 |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | 220-120-9                    |
| CAS  | 2634-33-5                    |
| content %  | 0,01-<0,05                   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Acute Tox. 4, H302           |
|  | Skin Irrit. 2, H315          |
|  | Eye Dam. 1, H318             |
|  | Skin Sens. 1, H317           |
|  | Aquatic Acute 1, H400 (M=1)  |
|  | Aquatic Chronic 2, H411      |
| Specific Concentration Limits and ATE  | Skin Sens. 1, H317: >=0,05 % |
|  |                              |
| Desirable and the late and the second of the late and the |                              |

| Pyridine-2-thiol 1-oxide, sodium salt                                  |                                  |
|--|----------------------------------|
| Registration number (REACH)  |                                  |
| Index  | 613-344-00-7                     |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 223-296-5                        |
| CAS  | 3811-73-2                        |
| content %  | 0,0025-<0,025                    |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH070                           |
|  | Acute Tox. 3, H311               |
|  | Acute Tox. 3, H331               |
|  | Acute Tox. 4, H302               |
|  | Skin Irrit. 2, H315              |
|  | Eye Irrit. 2, H319               |
|  | Skin Sens. 1, H317               |
|  | STOT RE 1, H372 (nervous system) |
|  | Aquatic Acute 1, H400 (M=100)    |
|  | Aquatic Chronic 2, H411          |
|  |                                  |



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Specific Concentration Limits and ATE

ATE (oral): 500 mg/kg
ATE (dermal): 790 mg/kg

ATE (as inhalation, Dusts or mist): 0,5 mg/l

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

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

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

#### Ingestion

Rinse the mouth thoroughly with water.

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

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

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

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

eyes, reddened

watering eyes

Irritation of the eyes

reddening of the skin

Allergic reaction

gastrointestinal disturbances

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

## Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.



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

## 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

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

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

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

Fill the absorbed material into lockable containers.

For large quantities:

Pump product off

#### 6.4 Reference to other sections

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

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

## 7.1.1 General recommendations

Ensure good ventilation.

Avoid formation of oil mist.

Avoid contact with eyes or skin.

Do not heat to temperatures close to flash point.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with oxidizing agents.

Store in a well-ventilated place.

Store cool.

Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters



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| Chemical Name                    | 2-(2-butoxyethoxy) | ethanol)          |                    |                    |  |
|----------------------------------|--------------------|-------------------|--------------------|--------------------|--|
| WEL-TWA: 10 ppm (67,5 mg/m3) (   | WEL, EU)           | WEL-STEL:         | 15 ppm (101,2 mg   | /m3) (WEL, EU)     |  |
| Monitoring procedures:           | -                  |                   |                    |                    |  |
| BMGV:                            |                    |                   |                    | Other information: |  |
| Chemical Name                    | Oil mist, mineral  |                   |                    |                    |  |
| WEL-TWA: 5 mg/m3 (Mineral oil, e | xcluding metal     | WEL-STEL:         |                    |                    |  |
| working fluids, ACGIH)           | _                  |                   |                    |                    |  |
| Monitoring procedures:           | - [                | Draeger - Oil Mis | st 1/a (67 33 031) |                    |  |
| BMGV:                            |                    |                   |                    | Other information: |  |

| Alcohols, C16-18 and C1 | 8-unsatd., ethoxylated                                     |                  |            |       |                 |      |
|-------------------------|--|------------------|------------|-------|-----------------|------|
| Area of application     | Exposure route /   | Effect on health | Descriptor | Value | Unit            | Note |
|                         | Environmental  |                  |            |       |                 |      |
|                         | compartment  |                  |            |       |                 |      |
|                         | Environment - freshwater                                   |                  | PNEC       | 0,002 | mg/l            |      |
|                         | Environment - soil   |                  | PNEC       | 1     | mg/kg           |      |
|                         | Environment - sewage treatment plant                       |                  | PNEC       | 10000 | mg/l            |      |
|                         | Environment - water,<br>sporadic (intermittent)<br>release |                  | PNEC       | 0,51  | mg/l            |      |
|                         | Environment - sediment, freshwater                         |                  | PNEC       | 6,33  | mg/kg           |      |
|                         | Environment - marine                                       |                  | PNEC       | 0,002 | mg/l            |      |
|                         | Environment - sediment, marine                             |                  | PNEC       | 6,33  | mg/kg           |      |
| Consumer                | Human - oral   |                  | DNEL       | 25    | mg/kg<br>bw/day |      |
| Consumer                | Human - dermal   |                  | DNEL       | 1250  | mg/kg bw/d      |      |
| Consumer                | Human - inhalation   |                  | DNEL       | 87    | mg/m3           |      |
| Workers / employees     | Human - dermal   |                  | DNEL       | 2080  | mg/kg bw/d      |      |
| Workers / employees     | Human - inhalation   |                  | DNEL       | 294   | mg/m3           |      |

| Distillates (petroleum), hydro | otreated heavy paraffinic  |                          |            |       |            |      |
|--------------------------------|----------------------------|--------------------------|------------|-------|------------|------|
| Area of application            | Exposure route /           | Effect on health         | Descriptor | Value | Unit       | Note |
|                                | Environmental              |                          |            |       |            |      |
|                                | compartment                |                          |            |       |            |      |
|                                | Environment - oral (animal |                          | PNEC       | 9,33  | mg/kg feed |      |
|                                | feed)                      |                          |            |       |            |      |
| Consumer                       | Human - inhalation         | Long term, local effects | DNEL       | 1,2   | mg/m3      |      |
| Workers / employees            | Human - inhalation         | Long term, local effects | DNEL       | 5,4   | mg/m3      |      |

| 2-(2-butoxyethoxy)ethan | ol   |                           |            |       |       |      |
|-------------------------|--|---------------------------|------------|-------|-------|------|
| Area of application     | Exposure route / Environmental                             | Effect on health          | Descriptor | Value | Unit  | Note |
|                         | compartment  |                           |            |       |       |      |
|                         | Environment - marine                                       |                           | PNEC       | 0,11  | mg/l  |      |
|                         | Environment - water,<br>sporadic (intermittent)<br>release |                           | PNEC       | 11    | mg/l  |      |
|                         | Environment - sediment, freshwater                         |                           | PNEC       | 4,4   | mg/kg |      |
|                         | Environment - sediment, marine                             |                           | PNEC       | 0,44  | mg/kg |      |
|                         | Environment - soil   |                           | PNEC       | 0,32  | mg/kg |      |
|                         | Environment - sewage treatment plant                       |                           | PNEC       | 100   | mg/l  |      |
|                         | Environment - oral (animal feed)                           |                           | PNEC       | 56    | mg/kg |      |
| Consumer                | Human - inhalation   | Short term, local effects | DNEL       | 60,7  | mg/m3 |      |



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| Consumer            | Human - dermal     | Long term, systemic effects  | DNEL | 50    | mg/kg bw/d |  |
|---------------------|--------------------|------------------------------|------|-------|------------|--|
| Consumer            | Human - inhalation | Long term, systemic effects  | DNEL | 40,5  | mg/m3      |  |
| Consumer            | Human - oral       | Long term, systemic effects  | DNEL | 5     | mg/kg bw/d |  |
| Consumer            | Human - oral       | Long term, systemic effects  | DNEL | 6,25  | mg/kg bw/d |  |
| Consumer            | Human - inhalation | Long term, local effects     | DNEL | 40,5  | mg/m3      |  |
| Workers / employees | Human - oral       | Long term, local effects     | DNEL | 67,5  | mg/m3      |  |
| Workers / employees | Human - dermal     | Short term, systemic effects | DNEL | 89    | mg/kg bw/d |  |
| Workers / employees | Human - inhalation | Long term, local effects     | DNEL | 67,5  | mg/m3      |  |
| Workers / employees | Human - dermal     | Long term, systemic effects  | DNEL | 20    | mg/kg      |  |
| Workers / employees | Human - inhalation | Short term, local effects    | DNEL | 101,2 | mg/m3      |  |
| Workers / employees | Human - inhalation | Long term, systemic effects  | DNEL | 67,5  | mg/m3      |  |

| Polysulfides, di-tert-dode | ecyl                                       |                             |            |       |                 |      |
|----------------------------|--|-----------------------------|------------|-------|-----------------|------|
| Area of application        | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit            | Note |
|                            | Environment - sewage treatment plant       |                             | PNEC       | 1000  | mg/l            |      |
| Consumer                   | Human - inhalation                         | Long term, systemic effects | DNEL       | 5,8   | mg/m3           |      |
| Consumer                   | Human - oral                               | Long term, systemic effects | DNEL       | 1,66  | mg/kg<br>bw/day |      |
| Consumer                   | Human - dermal                             | Long term, systemic effects | DNEL       | 16,6  | mg/kg<br>bw/day |      |
| Workers / employees        | Human - inhalation                         | Long term, systemic effects | DNEL       | 23,5  | mg/m3           |      |
| Workers / employees        | Human - dermal                             | Long term, systemic effects | DNEL       | 33,3  | mg/kg<br>bw/day |      |

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

## 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls

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

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Not required in contained systems, as no exposure normally occurs here.

If operational exposure (e.g. repair or maintenance work) cannot be avoided, corresponding protective measures need to be taken. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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



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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

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

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

>= 480

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

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

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

Kinematic viscosity:

Vapour pressure:

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

Solubility:

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state: Liquid 20°C Colour: Yellow Odour: Mild

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability: Combustible.

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

There is no information available on this parameter.

Flash point: >110 °C
Auto-ignition temperature: >270 °C

Decomposition temperature: There is no information available on this parameter.

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45 mm2/s (40°C)

Mixable

Does not apply to mixtures.

0,1 hPa (20°C)



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Drilling and Cutting Emulsion - water soluble

5 I Art.: 6580 5810, Art.: 6584 5810

Density and/or relative density:

Relative vapour density:

Particle characteristics: 9.2 Other information

Oxidising liquids:

Explosives:

Solvents content:

0,91 g/cm3

There is no information available on this parameter.

Does not apply to liquids.

Product is not explosive. Formation of highly flammable vapour/air

mixtures possible.

There is no information available on this parameter.

>1-1,5 % (Organic solvents)

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

The product has not been tested.

#### 10.2 Chemical stability

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

## 10.4 Conditions to avoid

T > 60°C

## 10.5 Incompatible materials

None known

## 10.6 Hazardous decomposition products

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

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

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

| Drilling and Cutting Emulsion - water soluble |          |       |      |          |             |        |  |
|---|----------|-------|------|----------|-------------|--------|--|
| 5 I Art.: 6580 5810, Art.: 6584 58            | 310      |       |      |          |             |        |  |
| Toxicity / effect                             | Endpoint | Value | Unit | Organism | Test method | Notes  |  |
| Acute toxicity, by oral route:                |          |       |      |          |             | n.d.a. |  |
| Acute toxicity, by dermal route:              |          |       |      |          |             | n.d.a. |  |
| Acute toxicity, by inhalation:                |          |       |      |          |             | n.d.a. |  |
| Skin corrosion/irritation:                    |          |       |      |          |             | n.d.a. |  |
| Serious eye damage/irritation:                |          |       |      |          |             | n.d.a. |  |
| Respiratory or skin                           |          |       |      |          |             | n.d.a. |  |
| sensitisation:                                |          |       |      |          |             |        |  |
| Germ cell mutagenicity:                       |          |       |      |          |             | n.d.a. |  |
| Carcinogenicity:                              |          |       |      |          |             | n.d.a. |  |
| Reproductive toxicity:                        |          |       |      |          |             | n.d.a. |  |
| Specific target organ toxicity -              |          |       |      |          |             | n.d.a. |  |
| single exposure (STOT-SE):                    |          |       |      |          |             |        |  |
| Specific target organ toxicity -              |          |       |      |          |             | n.d.a. |  |
| repeated exposure (STOT-RE):                  |          |       |      |          |             |        |  |
| Aspiration hazard:                            |          |       |      |          |             | n.d.a. |  |
| Symptoms:                                     |          |       |      |          |             | n.d.a. |  |

| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method           | Notes         |
|----------------------------------|----------|-------|---------|----------|-----------------------|---------------|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      | OECD 401 (Acute Oral  | Analogous     |
|                                  |          |       |         |          | Toxicity)             | conclusion    |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rabbit   | OECD 402 (Acute       |               |
|                                  |          |       |         |          | Dermal Toxicity)      |               |
| Acute toxicity, by inhalation:   | LC50     | >5,53 | mg/l/4h | Rat      | OECD 403 (Acute       | Aerosol,      |
|                                  |          |       |         |          | Inhalation Toxicity)  | Analogous     |
|                                  |          |       |         |          |                       | conclusion    |
| Skin corrosion/irritation:       |          |       |         | Rabbit   | OECD 404 (Acute       | Not irritant, |
|                                  |          |       |         |          | Dermal                | Analogous     |
|                                  |          |       |         |          | Irritation/Corrosion) | conclusion    |
| Serious eye damage/irritation:   |          |       |         | Rabbit   | OECD 405 (Acute Eye   | Not irritant  |
| -                                |          |       |         |          | Irritation/Corrosion) |               |



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| Respiratory or skin<br>sensitisation: |  | Guinea pig | OECD 406 (Skin<br>Sensitisation) | No (skin<br>contact),<br>Analogous<br>conclusion |
|---------------------------------------|--|------------|----------------------------------|--|
| Aspiration hazard:                    |  |            |                                  | Yes  |

| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method                            | Notes        |
|----------------------------------|----------|-------|-------|----------|--|--------------|
| Acute toxicity, by oral route:   | LD50     | >2000 | mg/kg |          |  |              |
| Acute toxicity, by oral route:   | LD50     | >2000 | mg/kg | Rat      | Regulation (EC)<br>440/2008 B.1 (ACUTE |              |
|                                  |          |       |       |          | ORAL TOXICITY)                         |              |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg |          | OECD 402 (Acute                        |              |
|                                  |          |       |       |          | Dermal Toxicity)                       |              |
| Skin corrosion/irritation:       |          |       |       |          | OECD 404 (Acute                        | Irritant     |
|                                  |          |       |       |          | Dermal                                 |              |
|                                  |          |       |       |          | Irritation/Corrosion)                  |              |
| Skin corrosion/irritation:       |          |       |       | Rabbit   | OECD 404 (Acute                        | Irritant     |
|                                  |          |       |       |          | Dermal                                 |              |
|                                  |          |       |       |          | Irritation/Corrosion)                  |              |
| Serious eye damage/irritation:   |          |       |       | Rabbit   | OECD 405 (Acute Eye                    | Not irritant |
|                                  |          |       |       |          | Irritation/Corrosion)                  |              |

| Distillates (petroleum), hydroti |          |       | T       | T               |                            |                  |
|----------------------------------|----------|-------|---------|-----------------|----------------------------|------------------|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism        | Test method                | Notes            |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat             | OECD 401 (Acute Oral       | Analogous        |
|                                  |          |       |         |                 | Toxicity)                  | conclusion       |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rabbit          | OECD 402 (Acute            | Analogous        |
|                                  |          |       |         |                 | Dermal Toxicity)           | conclusion       |
| Acute toxicity, by inhalation:   | LC50     | >5,53 | mg/l/4h | Rat             | OECD 403 (Acute            | Aerosol,         |
|                                  |          |       |         |                 | Inhalation Toxicity)       | Analogous        |
|                                  |          |       |         |                 |                            | conclusion       |
| Skin corrosion/irritation:       |          |       |         | Rabbit          | OECD 404 (Acute            | Not irritant,    |
|                                  |          |       |         |                 | Dermal                     | Analogous        |
|                                  |          |       |         |                 | Irritation/Corrosion)      | conclusion       |
| Serious eye damage/irritation:   |          |       |         | Rabbit          | OECD 405 (Acute Eye        | Not irritant,    |
| , 0                              |          |       |         |                 | Irritation/Corrosion)      | Analogous        |
|                                  |          |       |         |                 | ,                          | conclusion       |
| Respiratory or skin              |          |       |         | Guinea pig      | OECD 406 (Skin             | No (skin         |
| sensitisation:                   |          |       |         | 33 7 7          | Sensitisation)             | contact).        |
|                                  |          |       |         |                 |                            | Analogous        |
|                                  |          |       |         |                 |                            | conclusion       |
| Germ cell mutagenicity:          |          |       |         |                 | OECD 473 (In Vitro         | NegativeChinese  |
| com con matagornoity.            |          |       |         |                 | Mammalian                  | hamster          |
|                                  |          |       |         |                 | Chromosome                 |                  |
|                                  |          |       |         |                 | Aberration Test)           |                  |
| Germ cell mutagenicity:          |          |       |         | Salmonella      | OECD 471 (Bacterial        | Negative,        |
| com con matagomony.              |          |       |         | typhimurium     | Reverse Mutation Test)     | Analogous        |
|                                  |          |       |         | typiiiiiaiiaiii | Trovoros matation rost,    | conclusion       |
| Germ cell mutagenicity:          |          |       |         | Mouse           | OECD 474 (Mammalian        | Negative,        |
| com con matagornoity.            |          |       |         | Modoo           | Erythrocyte                | Analogous        |
|                                  |          |       |         |                 | Micronucleus Test)         | conclusion       |
| Germ cell mutagenicity:          |          |       |         | Mammalian       | OECD 476 (In Vitro         | Negative,        |
| com con matagornoity.            |          |       |         | Mammanan        | Mammalian Cell Gene        | Analogous        |
|                                  |          |       |         |                 | Mutation Test)             | conclusion       |
| Carcinogenicity:                 |          |       |         | Mouse           | OECD 451                   | Negative,        |
| Carcinogericity.                 |          |       |         | Wiouse          | (Carcinogenicity Studies)  | Analogous        |
|                                  |          |       |         |                 | (Garcinogerileity Studies) | conclusion78     |
|                                  |          |       |         |                 |                            | weeks, dermal    |
| Reproductive toxicity:           |          |       |         | Rat             | OECD 421                   | Negative,        |
| reproductive toxicity.           |          |       |         | INGL            | (Reproduction/Developm     | Analogous        |
|                                  |          |       |         |                 | ental Toxicity Screening   | conclusionoral   |
|                                  |          |       |         |                 | Test)                      | conclusion of al |
| Reproductive toxicity            |          | 1     |         | Rat             | OECD 414 (Prenatal         | Negative,        |
| (Developmental toxicity):        |          |       |         | rat             | Developmental Toxicity     | Analogous        |
| (Developmental toxicity).        |          |       |         |                 | Study)                     | conclusionderma  |
|                                  |          |       |         |                 | Siduy)                     | conclusionaeima  |



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| Specific target organ toxicity - | NOAEL | ~1000 | mg/kg | Rabbit | OECD 410 (Repeated        | Analogous        |
|----------------------------------|-------|-------|-------|--------|---------------------------|------------------|
| repeated exposure (STOT-RE),     |       |       | bw/d  |        | Dose Dermal Toxicity -    | conclusion       |
| dermal:                          |       |       |       |        | 90-Day)                   |                  |
| Specific target organ toxicity - | NOAEL | <30   | mg/kg | Rat    | OECD 411 (Subchronic      | Analogous        |
| repeated exposure (STOT-RE),     |       |       |       |        | Dermal Toxicity - 90-day  | conclusion       |
| dermal:                          |       |       |       |        | Study)                    |                  |
| Specific target organ toxicity - | NOEC  | ~220  | mg/m3 | Rat    | OECD 412 (Subacute        | Analogous        |
| repeated exposure (STOT-RE),     |       |       |       |        | Inhalation Toxicity - 28- | conclusion,      |
| inhalat.:                        |       |       |       |        | Day Study)                | Aerosol          |
| Symptoms:                        |       |       |       |        |                           | coughing,        |
|                                  |       |       |       |        |                           | respiratory      |
|                                  |       |       |       |        |                           | distress, nausea |
|                                  |       |       |       |        |                           | and vomiting.,   |
|                                  |       |       |       |        |                           | diarrhoea        |
| Specific target organ toxicity - | LOAEL | 125   | mg/kg | Rat    | OECD 408 (Repeated        | Analogous        |
| repeated exposure (STOT-RE),     |       |       |       |        | Dose 90-Day Oral          | conclusion       |
| oral:                            |       |       |       |        | Toxicity Study in         |                  |
|                                  |       |       |       |        | Rodents)                  |                  |

| 2-(2-butoxyethoxy)ethanol          |          |       |       |                        |  |  |
|------------------------------------|----------|-------|-------|------------------------|--|--|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism               | Test method  | Notes  |
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg | Rat                    | OECD 401 (Acute Oral Toxicity)                                       |  |
| Acute toxicity, by oral route:     | LD50     | 2410  | mg/kg | Mouse                  | OECD 401 (Acute Oral<br>Toxicity)                                    | fasted animals   |
| Acute toxicity, by dermal route:   | LD50     | 2764  | mg/kg | Rabbit                 | OECD 402 (Acute<br>Dermal Toxicity)                                  |  |
| Acute toxicity, by inhalation:     | LC50     | >29   | ppm   | Rat                    | OECD 403 (Acute<br>Inhalation Toxicity)                              | Dusts or mist  |
| Skin corrosion/irritation:         |          |       |       | Rabbit                 | OECD 404 (Acute<br>Dermal<br>Irritation/Corrosion)                   | Not irritant   |
| Serious eye damage/irritation:     |          |       |       | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                            | Eye Irrit. 2   |
| Respiratory or skin sensitisation: |          |       |       | Guinea pig             | OECD 406 (Skin<br>Sensitisation)                                     | No (skin contact)  |
| Germ cell mutagenicity:            |          |       |       | Salmonella typhimurium | OECD 471 (Bacterial<br>Reverse Mutation Test)                        | Negative   |
| Germ cell mutagenicity:            |          |       |       |                        | OECD 473 (In Vitro<br>Mammalian<br>Chromosome<br>Aberration Test)    | Negative<br>Chinese hamster  |
| Germ cell mutagenicity:            |          |       |       | Mouse                  | OECD 475 (Mammalian<br>Bone Marrow<br>Chromosome<br>Aberration Test) | Negative   |
| Germ cell mutagenicity:            |          |       |       |                        | OECD 476 (In Vitro<br>Mammalian Cell Gene<br>Mutation Test)          | Negative<br>Chinese hamster  |
| Reproductive toxicity:             |          | 1000  | mg/kg | Rat                    | OECD 414 (Prenatal<br>Developmental Toxicity<br>Study)               | Negative,<br>Analogous<br>conclusion   |
| Aspiration hazard:                 |          |       |       |                        |  | No   |
| Symptoms:                          |          |       |       |                        |  | breathing<br>difficulties,<br>respiratory<br>distress,<br>diarrhoea,<br>coughing,<br>mucous<br>membrane<br>irritation,<br>dizziness, |
|                                    |          |       |       |                        |  | watering eyes,<br>nausea   |



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| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 250   | mg/kg         | Rat |  |         |
|---|-------|-------|---------------|-----|--|---------|
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | < 200 | mg/kg<br>bw/d | Rat | OECD 411 (Subchronic<br>Dermal Toxicity - 90-day<br>Study) | Male    |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 14    | ppm           | Rat | •  | Vapours |

| Polysulfides, di-tert-dodecyl    |          |       |         |            |                        |                   |
|----------------------------------|----------|-------|---------|------------|------------------------|-------------------|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism   | Test method            | Notes             |
| Acute toxicity, by oral route:   | LD50     | 19500 | mg/kg   | Rat        | OECD 401 (Acute Oral   |                   |
|                                  |          |       |         |            | Toxicity)              |                   |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rat        | OECD 402 (Acute        |                   |
|                                  |          |       |         |            | Dermal Toxicity)       |                   |
| Acute toxicity, by inhalation:   | LC50     | >15,5 | mg/l/4h | Rat        | OECD 403 (Acute        |                   |
|                                  |          |       |         |            | Inhalation Toxicity)   |                   |
| Skin corrosion/irritation:       |          | 4     | h       | Rabbit     | OECD 404 (Acute        | Slightly irritant |
|                                  |          |       |         |            | Dermal                 |                   |
|                                  |          |       |         |            | Irritation/Corrosion)  |                   |
| Serious eye damage/irritation:   |          |       |         | Rabbit     | OECD 405 (Acute Eye    | Slightly irritant |
|                                  |          |       |         |            | Irritation/Corrosion)  |                   |
| Respiratory or skin              |          |       |         | Guinea pig | OECD 406 (Skin         | Skin Sens. 1B     |
| sensitisation:                   |          |       |         |            | Sensitisation)         |                   |
| Germ cell mutagenicity:          |          |       |         |            | (Ames-Test)            | Negative          |
| Reproductive toxicity            | NOAEL    | 1000  | mg/kg   | Rat        | OECD 414 (Prenatal     | Negative          |
| (Developmental toxicity):        |          |       |         |            | Developmental Toxicity |                   |
|                                  |          |       |         |            | Study)                 |                   |
| Specific target organ toxicity - | NOAEL    | 1000  | mg/kg/d | Rat        | OECD 407 (Repeated     | Negative          |
| repeated exposure (STOT-RE):     |          |       |         |            | Dose 28-Day Oral       |                   |
|                                  |          |       |         |            | Toxicity Study in      |                   |
|                                  |          |       |         |            | Rodents)               |                   |
| Aspiration hazard:               |          |       |         |            |                        | No                |

| 1,2-benzisothiazol-3(2H)-one     |          |       |         |            |                |                    |
|----------------------------------|----------|-------|---------|------------|----------------|--------------------|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism   | Test method    | Notes              |
| Acute toxicity, by oral route:   | LD50     | 1193  | mg/kg   | Rat        |                |                    |
| Acute toxicity, by oral route:   | LD50     | 490   | mg/kg   | Rat        |                |                    |
| Acute toxicity, by dermal route: | LD50     | 4115  | mg/kg   | Rat        |                |                    |
| Acute toxicity, by inhalation:   | LC50     | 0,25  | mg/l/4h | Rat        |                | Aerosol, Does      |
|                                  |          |       |         |            |                | not conform with   |
|                                  |          |       |         |            |                | EU classification. |
| Skin corrosion/irritation:       |          |       |         |            |                | Skin Irrit. 2      |
| Serious eye damage/irritation:   |          |       |         |            |                | Eye Dam. 1         |
| Respiratory or skin              |          |       |         | Guinea pig | OECD 406 (Skin | Skin Sens. 1       |
| sensitisation:                   |          |       |         |            | Sensitisation) |                    |
| Germ cell mutagenicity:          |          |       |         |            | ·              | Negative           |
| Symptoms:                        |          |       |         |            |                | vomiting,          |
|                                  |          |       |         |            |                | headaches,         |
|                                  |          |       |         |            |                | gastrointestinal   |
|                                  |          |       |         |            |                | disturbances,      |
|                                  |          |       |         |            |                | nausea             |

| Pyridine-2-thiol 1-oxide, sodium salt |          |       |       |          |                       |               |  |  |
|---------------------------------------|----------|-------|-------|----------|-----------------------|---------------|--|--|
| Toxicity / effect                     | Endpoint | Value | Unit  | Organism | Test method           | Notes         |  |  |
| Acute toxicity, by oral route:        | ATE      | 500   | mg/kg |          |                       |               |  |  |
| Acute toxicity, by dermal route:      | ATE      | 790   | mg/kg |          |                       |               |  |  |
| Acute toxicity, by inhalation:        | ATE      | 0,5   | mg/l  |          |                       | Dusts or mist |  |  |
| Skin corrosion/irritation:            |          |       |       | Rabbit   | OECD 404 (Acute       | Skin Irrit. 2 |  |  |
|                                       |          |       |       |          | Dermal                |               |  |  |
|                                       |          |       |       |          | Irritation/Corrosion) |               |  |  |
| Serious eye damage/irritation:        |          |       |       | Rabbit   | OECD 405 (Acute Eye   | Eye Irrit. 2  |  |  |
|                                       |          |       |       |          | Irritation/Corrosion) | -             |  |  |



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| Respiratory or skin              |       |     |       | Guinea pig | OECD 429 (Skin            | Skin Sens. 1     |
|----------------------------------|-------|-----|-------|------------|---------------------------|------------------|
| sensitisation:                   |       |     |       |            | Sensitisation - Local     |                  |
|                                  |       |     |       |            | Lymph Node Assay)         |                  |
| Germ cell mutagenicity:          |       |     |       | Mouse      | OECD 474 (Mammalian       | Negative         |
|                                  |       |     |       |            | Erythrocyte               |                  |
|                                  |       |     |       |            | Micronucleus Test)        |                  |
| Carcinogenicity:                 |       |     |       | Mouse      | OECD 451                  | Negative         |
| •                                |       |     |       |            | (Carcinogenicity Studies) | •                |
| Reproductive toxicity:           |       |     |       | Rat        | OECD 416 (Two-            | Negative         |
|                                  |       |     |       |            | generation                | _                |
|                                  |       |     |       |            | Reproduction Toxicity     |                  |
|                                  |       |     |       |            | Study)                    |                  |
| Specific target organ toxicity - | NOAEL | 0,5 | mg/kg |            | OECD 408 (Repeated        |                  |
| repeated exposure (STOT-RE):     |       |     |       |            | Dose 90-Day Oral          |                  |
| ,                                |       |     |       |            | Toxicity Study in         |                  |
|                                  |       |     |       |            | Rodents)                  |                  |
| Symptoms:                        |       |     |       |            | ,                         | cornea opacity,  |
|                                  |       |     |       |            |                           | cramps, fatigue, |
|                                  |       |     |       |            |                           | mucous           |
|                                  |       |     |       |            |                           | membrane         |
|                                  |       |     |       |            |                           | irritation,      |
|                                  |       |     |       |            |                           | trembling        |

## 11.2. Information on other hazards

| Drilling and Cutting Emulsion - water soluble 5 I Art.: 6580 5810, Art.: 6584 5810 |          |       |      |          |             |                 |  |  |  |  |  |
|--|----------|-------|------|----------|-------------|-----------------|--|--|--|--|--|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes           |  |  |  |  |  |
| Endocrine disrupting properties:   |          |       |      |          |             | Does not apply  |  |  |  |  |  |
|  |          |       |      |          |             | to mixtures.    |  |  |  |  |  |
| Other information:   |          |       |      |          |             | No other        |  |  |  |  |  |
|  |          |       |      |          |             | relevant        |  |  |  |  |  |
|  |          |       |      |          |             | information     |  |  |  |  |  |
|  |          |       |      |          |             | available on    |  |  |  |  |  |
|  |          |       |      |          |             | adverse effects |  |  |  |  |  |
|  |          |       |      |          |             | on health.      |  |  |  |  |  |

## **SECTION 12: Ecological information**

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

| Toxicity / effect          | Endpoint | Time | Value | Unit | Organism | Test method | Notes           |
|----------------------------|----------|------|-------|------|----------|-------------|-----------------|
| 12.1. Toxicity to fish:    |          |      |       |      |          |             | n.d.a.          |
| 12.1. Toxicity to daphnia: |          |      |       |      |          |             | n.d.a.          |
| 12.1. Toxicity to algae:   |          |      |       |      |          |             | n.d.a.          |
| 12.2. Persistence and      |          |      |       |      |          |             | n.d.a.          |
| degradability:             |          |      |       |      |          |             |                 |
| 12.3. Bioaccumulative      |          |      |       |      |          |             | n.d.a.          |
| potential:                 |          |      |       |      |          |             |                 |
| 12.4. Mobility in soil:    |          |      |       |      |          |             | n.d.a.          |
| 12.5. Results of PBT       |          |      |       |      |          |             | n.d.a.          |
| and vPvB assessment        |          |      |       |      |          |             |                 |
| 12.6. Endocrine            |          |      |       |      |          |             | Does not apply  |
| disrupting properties:     |          |      |       |      |          |             | to mixtures.    |
| 12.7. Other adverse        |          |      |       |      |          |             | No information  |
| effects:                   |          |      |       |      |          |             | available on    |
|                            |          |      |       |      |          |             | other adverse   |
|                            |          |      |       |      |          |             | effects on the  |
|                            |          |      |       |      |          |             | environment.    |
| Other information:         |          |      |       |      |          |             | DOC-elimination |
|                            |          |      |       |      |          |             | degree(complexi |
|                            |          |      |       |      |          |             | ng organic      |
|                            |          |      |       |      |          |             | substance)>=    |
|                            |          |      |       |      |          |             | 80%/28d: n.a.   |



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| Toxicity / effect                        | Endpoint  | Time | Value  | Unit | Organism                         | Test method  | Notes   |
|--|-----------|------|--------|------|----------------------------------|--|---|
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 10     | mg/l | Daphnia magna                    | OECD 211<br>(Daphnia magna<br>Reproduction Test)                               |   |
| 12.2. Persistence and degradability:     |           | 28d  | 31     | %    | activated sludge                 | OECD 301 F<br>(Ready<br>Biodegradability -<br>Manometric<br>Respirometry Test) | Not readily but inherent biodegradable., Mechanical precipitation possible. |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | > 100  | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                                  |   |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >100   | mg/l | Pimephales promelas              | OECD 203 (Fish,<br>Acute Toxicity<br>Test)                                     |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >10000 | mg/l | Daphnia magna                    | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                   |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >100   | mg/l | Pseudokirchneriell a subcapitata | OEĆD 201 (Alga,<br>Growth Inhibition<br>Test)                                  |   |
| 12.5. Results of PBT and vPvB assessment |           |      |        |      |                                  | ,  | No PBT<br>substance, No<br>vPvB substance                                   |

| Toxicity / effect                    | Endpoint | Time  | Value  | Unit | Organism                | Test method  | Notes                    |
|--------------------------------------|----------|-------|--------|------|-------------------------|--|--------------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h   | 108    | mg/l | Brachydanio rerio       | OECD 203 (Fish,<br>Acute Toxicity<br>Test)                           |                          |
| 12.1. Toxicity to daphnia:           | EL50     | 48h   | 51     | mg/l | Daphnia magna           | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)         |                          |
| 12.1. Toxicity to algae:             | EC20     | 72h   | 0,195  | mg/l | Desmodesmus subspicatus |  |                          |
| 12.2. Persistence and degradability: |          | 28d   | 99     | %    |                         | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test) |                          |
| 12.2. Persistence and degradability: |          |       |        |      |                         | OECD 301 A-F<br>(Ready<br>Biodegradability)                          | Readily<br>biodegradable |
| Toxicity to bacteria:                | EC50     | 30min | 9500   | mg/l | Pseudomonas putida      | DIN 38412 T.27<br>(Draft)  |                          |
| Toxicity to bacteria:                | EC10     | 17h   | >10000 | mg/l | Pseudomonas putida      | DIN 38412 T.8  |                          |
| Other information:                   | BOD/COD  |       | >60    | %    | ·                       |  |                          |
| Other information:                   | DOC      |       | >70    | %    |                         |  |                          |

| Distillates (petroleum), hydrotreated heavy paraffinic |           |      |       |      |                     |  |       |  |  |  |  |
|--|-----------|------|-------|------|---------------------|--|-------|--|--|--|--|
| Toxicity / effect                                      | Endpoint  | Time | Value | Unit | Organism            | Test method                                | Notes |  |  |  |  |
| 12.1. Toxicity to fish:                                | NOEC/NOEL | 96h  | >100  | mg/l | Pimephales promelas | OECD 203 (Fish,<br>Acute Toxicity<br>Test) |       |  |  |  |  |
| 12.1. Toxicity to fish:                                | NOEC/NOEL | 14d  | 1000  | mg/l | Oncorhynchus mykiss | QSAR                                       |       |  |  |  |  |



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| 12.1. Toxicity to daphnia: | EL50      | 48h  | 10000  | mg/l   | Daphnia magna      | OECD 202           | Analogous      |
|----------------------------|-----------|------|--------|--------|--------------------|--------------------|----------------|
| 12.1. Toxicity to daprima. | LLSO      | 4011 | 10000  | ilig/i | Dapinia magna      | (Daphnia sp.       | conclusion     |
|                            |           |      |        |        |                    | Acute              | OOTIGIGOIOTI   |
|                            |           |      |        |        |                    | Immobilisation     |                |
|                            |           |      |        |        |                    | Test)              |                |
| 12.1. Toxicity to daphnia: | LL50      | 96h  | >10000 | mg/l   |                    | OEĆD 202           |                |
|                            |           |      |        |        |                    | (Daphnia sp.       |                |
|                            |           |      |        |        |                    | Acute              |                |
|                            |           |      |        |        |                    | Immobilisation     |                |
|                            |           |      |        |        |                    | Test)              |                |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d  | 10     | mg/l   | Daphnia magna      | OECD 211           | Analogous      |
|                            |           |      |        |        |                    | (Daphnia magna     | conclusion     |
|                            |           |      |        |        |                    | Reproduction Test) |                |
| 12.1. Toxicity to algae:   | NOEC/NOEL | 72h  | >=100  | mg/l   | Pseudokirchneriell | OECD 201 (Alga,    |                |
|                            |           |      |        |        | a subcapitata      | Growth Inhibition  |                |
|                            |           |      |        |        |                    | Test)              |                |
| 12.2. Persistence and      |           | 28d  | 31     | %      |                    | OECD 301 F         | Not readily    |
| degradability:             |           |      |        |        |                    | (Ready             | biodegradable, |
|                            |           |      |        |        |                    | Biodegradability - | Analogous      |
|                            |           |      |        |        |                    | Manometric         | conclusion     |
|                            |           |      |        |        |                    | Respirometry Test) |                |
| 12.5. Results of PBT       |           |      |        |        |                    |                    | No PBT         |
| and vPvB assessment        |           |      |        |        |                    |                    | substance, No  |
| NA/-4                      |           |      |        |        |                    |                    | vPvB substance |
| Water solubility:          |           |      |        |        |                    |                    | Insoluble      |

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



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| Toxicity to bacteria: | EC10 | 30min | >1995 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
|-----------------------|------|-------|-------|------|------------------|--|---|
| Other information:    |      |       |       |      |                  |  | Does not contain<br>any organically<br>bound halogens<br>which can<br>contribute to the<br>AOX value in<br>waste water. |

| Toxicity / effect                        | Endpoint  | Time | Value  | Unit | Organism                            | Test method  | Notes  |
|--|-----------|------|--------|------|-------------------------------------|--|--|
| 12.2. Persistence and degradability:     |           | 28d  | 0      | %    |                                     | OECD 301 F<br>(Ready<br>Biodegradability -<br>Manometric<br>Respirometry Test) | Not readily biodegradable                            |
| 12.3. Bioaccumulative potential:         | Log Kow   |      | >12    |      |                                     |  | (calculated)   |
| 12.3. Bioaccumulative potential:         | BCF       | 14d  | <1     |      | Cyprinus caprio                     | OECD 305<br>(Bioconcentration -<br>Flow-Through<br>Fish Test)                  | (22°C)   |
| 12.3. Bioaccumulative potential:         | Log Koc   |      | 8,5    |      |                                     |  | (estimated)  |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >100   | mg/l | Brachydanio rerio                   | OECD 203 (Fish,<br>Acute Toxicity<br>Test)                                     |  |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 48h  | >=0,1  | mg/l | Daphnia magna                       | 84/449/EEC C.2   | Water toxicolog is above the water-solubility value. |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | >0,79  | μg/l | Daphnia magna                       | OECD 211<br>(Daphnia magna<br>Reproduction Test)                               | Water toxicolog is above the water-solubility value. |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >=0,08 | mg/l | Pseudokirchneriell<br>a subcapitata | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                                  | Water toxicolog is above the water-solubility value. |
| Toxicity to bacteria:                    |           | 16h  | 10000  | mg/l | Pseudomonas putida                  |  |  |
| 12.5. Results of PBT and vPvB assessment |           |      |        |      |                                     |  | No PBT<br>substance, No<br>vPvB substance            |

| Toxicity / effect                    | Endpoint | Time | Value | Unit | Organism               | Test method  | Notes |
|--------------------------------------|----------|------|-------|------|------------------------|--|-------|
| Toxicity to bacteria:                | EC50     | 3h   | 0,4   | mg/l | Pseudomonas putida     |  |       |
| 12.1. Toxicity to fish:              | LC50     | 96h  | 2,18  | mg/l | Oncorhynchus<br>mykiss | OECD 203 (Fish,<br>Acute Toxicity<br>Test)                       |       |
| 12.2. Persistence and degradability: |          |      | 90    | %    |                        | OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test) |       |



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| 12.3. Bioaccumulative potential:         | BCF       |     | 6,95             |      |                                  | OECD 305<br>(Bioconcentration -<br>Flow-Through<br>Fish Test)                            |   |
|--|-----------|-----|------------------|------|----------------------------------|--|---|
| 12.1. Toxicity to daphnia:               | EC50      | 48h | 2,94             | mg/l | Daphnia magna                    | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                             |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h | 0,11             | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga,<br>Growth Inhibition<br>Test)  |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | 0,027-<br>0,0403 | mg/l | Skeletonema costatum             | OECD 201 (Alga,<br>Growth Inhibition<br>Test)  |   |
| 12.2. Persistence and degradability:     | DOC       |     | >70              | %    |                                  | OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)         |   |
| 12.2. Persistence and degradability:     |           |     |                  |      |                                  | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test)                     | Readily<br>biodegradable                  |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 1,3              |      |                                  |  |   |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 0,7              |      |                                  | OECD 117<br>(Partition<br>Coefficient (n-<br>octanol/water) -<br>HPLC method)            |   |
| Toxicity to bacteria:                    | EC20      | 3h  | 3,3              | mg/l | activated sludge                 | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
| 12.5. Results of PBT and vPvB assessment |           |     |                  |      |                                  | ,,   | No PBT<br>substance, No<br>vPvB substance |

| Pyridine-2-thiol 1-oxide,        | sodium salt |      |         |      |                         |  |       |
|----------------------------------|-------------|------|---------|------|-------------------------|--|-------|
| Toxicity / effect                | Endpoint    | Time | Value   | Unit | Organism                | Test method  | Notes |
| 12.3. Bioaccumulative potential: | Log Kow     |      | -12,64  |      |                         |  |       |
| 12.1. Toxicity to algae:         | NOEC/NOEL   | 72h  | 0,033   | mg/l | Desmodesmus subspicatus | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                |       |
| 12.1. Toxicity to fish:          | LC50        | 96h  | 0,00767 | mg/l | Brachydanio rerio       | OECD 203 (Fish,<br>Acute Toxicity<br>Test)                   |       |
| 12.1. Toxicity to daphnia:       | LC50        | 48h  | 0,150   | mg/l | Daphnia magna           | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |       |
| 12.1. Toxicity to algae:         | LC50        | 72h  | 0,22    | mg/l | Desmodesmus subspicatus | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                |       |



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| 12.2. Persistence and degradability: |         | 28d | 79   | % | activated sludge | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test) | Readily<br>biodegradable |
|--------------------------------------|---------|-----|------|---|------------------|--|--------------------------|
| 12.3. Bioaccumulative potential:     | Log Pow |     | -3,8 |   |                  |  |                          |

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

12 01 09 machining emulsions and solutions free of halogens

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Recommended cleaner:

Water

## **SECTION 14: Transport information**

## **General statements**

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport category:Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.



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

Non-dangerous material according to Transport Regulations.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Regulation (EC) No 1907/2006. Annex XVII

2-(2-butoxyethoxy)ethanol

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

1,5 %

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

3, 11, 12

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Eye Dam. 1, H318  | Classification according to calculation procedure. |
| Skin Sens. 1, H317  | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412   | Classification according to calculation procedure. |

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

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH070 Toxic by eye contact.

Eye Dam. — Serious eye damage Skin Sens. — Skin sensitization

Aguatic Chronic — Hazardous to the aguatic environment - chronic

Asp. Tox. — Aspiration hazard

Skin Irrit. — Skin irritation

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - inhalation

STOT RE — Specific target organ toxicity - repeated exposure



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## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as

amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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## Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA

Bioconcentration factor BCF

**BSEF** The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

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

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level



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Revision date / version: 20.01.2023 / 0016

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Valid from: 20.01.2023 PDF print date: 20.01.2023

Drilling and Cutting Emulsion - water soluble

5 I Art.: 6580 5810, Art.: 6584 5810

DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community
ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

ncl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

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

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight



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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

## These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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