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## 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**

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## LM 381 Contact-Grease

 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Lubricant
Uses advised against: No information available at present.

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

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

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

### 1.4 Emergency telephone number Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (LMR)

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

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

## 2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208-Contains Di-iso-octyl amino methyl tolutriazole. May produce an allergic reaction. EUH210-Safety data sheet available on request.

## 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 %).

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



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## 3.1 Substance

#### n.a. 3.2 Mixture

| Acetone   | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH)                                 | 01-2119471330-49-XXXX                                   |
| Index   | 606-001-00-8  |
| EINECS, ELINCS, NLP   | 200-662-2   |
| CAS   | 67-64-1   |
| content %   | 3-<5  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225                                      |
|   | Eye Irrit. 2, H319                                      |
|   | STOT SE 3, H336   |
|   |   |

| Benzenamine, N-pnenyi-, reaction products with 2,4,4-trimethylpentene |                         |
|---|-------------------------|
| Registration number (REACH)   | 01-2119491299-23-XXXX   |
| Index   |                         |
| EINECS, ELINCS, NLP   | 270-128-1               |
| CAS   | 68411-46-1              |
| content %   | 1-<2,5                  |
| Classification according to Regulation (EC) 1272/2008 (CLP)           | Aquatic Chronic 3, H412 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

The 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

Not required.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

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.

With long-term contact: Product removes fat. Drying of the skin. Dermatitis (skin inflammation) Allergic reaction

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

**4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



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### Suitable extinguishing media

CO2 Dry extinguisher Foam

#### Unsuitable extinguishing media High volume water jet

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

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Hydrocarbons Toxic gases **5.3 Advice for firefighters** In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.

#### According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

#### 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 contact with eyes.

Avoid long lasting or intensive contact with skin. Do not carry cleaning cloths soaked in product in trouser pockets.

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.

#### 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

Store product closed and only in original packing. Not to be stored in gangways or stair wells. Solvent resistant floor



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Do not store with oxidizing agents. Store in a well ventilated place. Protect from direct sunlight and warming. Store in a dry place.

## 7.3 Specific end use(s)

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No information available at present.

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

#### 8.1 Control parameters

| Chemical Name                    | Acetone           |                                       |                       |                       | Content %:3-<5            |
|----------------------------------|-------------------|---------------------------------------|-----------------------|-----------------------|---------------------------|
| WEL-TWA: 500 ppm (1210 mg/m3     | 3) (WEL, EU)      | WEL-STEL:                             | 1500 ppm (3620 mg     | g/m3) (WEL)           |                           |
| Monitoring procedures:           | -                 | Draeger - Aceto                       | ne 100/b (CH 22 901)  | )                     |                           |
|                                  | -                 |                                       | ne 40/a (5) (81 03 38 | 1)                    |                           |
|                                  | -                 |                                       | 102 SA (548 534)      |                       |                           |
|                                  | -                 |                                       | 102 SC (548 550)      |                       |                           |
|                                  | -                 |                                       | 102 SD (551 109)      |                       |                           |
|                                  |                   |                                       |                       |                       | e, methyl ethyl ketone,   |
|                                  |                   |                                       |                       |                       | chromatography) - 1996 -  |
|                                  | -                 |                                       | EN/ENTR/000/2002-     |                       |                           |
|                                  |                   |                                       |                       |                       | nethod using pumped solid |
|                                  | -                 |                                       |                       | d gas chromatography) | - 1993                    |
|                                  | -                 |                                       | ETONES I) - 1994      |                       |                           |
|                                  | -                 | ,                                     |                       | COMPOUNDS (SCREE      | ENING)) - 1996            |
|                                  | -                 | · · · · · · · · · · · · · · · · · · · | ETONES I) - 2003      |                       |                           |
|                                  |                   | ,                                     |                       | GANIC GASES BY EXT    | FRACTIVE FTIR             |
|                                  | -                 | SPECTROMET                            | /                     |                       |                           |
|                                  | -                 | OSHA 69 (Aceto                        | /                     | <b>•</b> • • • • •    |                           |
| BMGV:                            |                   |                                       | (                     | Other information:    |                           |
| Chemical Name                    | Oil mist, mineral |                                       |                       |                       | Content %:                |
| WEL-TWA: 5 mg/m3 (Mineral oil, e | excluding metal   | WEL-STEL:                             |                       |                       |                           |
| working fluids, ACGIH)           |                   |                                       |                       |                       |                           |
| Monitoring procedures:           | -                 | Draeger - Oil Mi                      | st 1/a (67 33 031)    |                       |                           |
| BMGV:                            |                   |                                       | (                     | Other information:    |                           |

| Area of application | Exposure route /<br>Environmental<br>compartment | Effect on health               | Descriptor | Value | Unit            | Note                             |
|---------------------|--|--------------------------------|------------|-------|-----------------|----------------------------------|
|                     | Environment - marine                             |                                | PNEC       | 1,06  | mg/l            | Assesment<br>factor 500          |
|                     | Environment - freshwater                         |                                | PNEC       | 10,6  | mg/l            | Assesmen<br>factor 50            |
|                     | Environment - sediment,<br>freshwater            |                                | PNEC       | 30,4  | mg/l            |                                  |
|                     | Environment - sediment,<br>marine                |                                | PNEC       | 3,04  | mg/l            |                                  |
|                     | Environment - soil                               |                                | PNEC       | 29,5  | mg/kg dw        |                                  |
|                     | Environment - sewage<br>treatment plant          |                                | PNEC       | 19,5  | mg/l            |                                  |
|                     | Environment - sporadic<br>(intermittent) release |                                | PNEC       | 21    | mg/l            | Assesmen<br>factor 100           |
|                     | Environment - sewage<br>treatment plant          |                                | PNEC       | 100   | mg/l            |                                  |
| Consumer            | Human - oral                                     | Long term, systemic<br>effects | DNEL       | 62    | mg/kg<br>bw/day | Overall<br>assesmen<br>factor 2  |
| Consumer            | Human - dermal                                   | Long term, systemic effects    | DNEL       | 62    | mg/kg<br>bw/day | Overall<br>assesmen<br>factor 20 |



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| Consumer            | Human - inhalation | Long term, systemic effects    | DNEL | 200  | mg/m3           | Overall<br>assesment<br>factor 5 |
|---------------------|--------------------|--------------------------------|------|------|-----------------|----------------------------------|
| Workers / employees | Human - dermal     | Long term, systemic<br>effects | DNEL | 186  | mg/kg<br>bw/day |                                  |
| Workers / employees | Human - inhalation | Short term, local effects      | DNEL | 2420 | mg/m3           |                                  |
| Workers / employees | Human - inhalation | Long term, systemic<br>effects | DNEL | 1210 | mg/m3           |                                  |

| Benzenamine, N-phenyl-<br>Area of application | Exposure route /   | Effect on health            | Descriptor | Value  | Unit  | Note |
|---|--|-----------------------------|------------|--------|-------|------|
|   | Environmental  |                             |            |        |       |      |
|   | compartment  |                             |            |        |       |      |
|   | Environment - freshwater                                   |                             | PNEC       | 0,051  | mg/l  |      |
|   | Environment - marine                                       |                             | PNEC       | 0,0051 | mg/l  |      |
|   | Environment - water,<br>sporadic (intermittent)<br>release |                             | PNEC       | 0,51   | mg/l  |      |
|   | Environment - sediment,<br>freshwater                      |                             | PNEC       | 9320   | mg/kg |      |
|   | Environment - sediment,<br>marine                          |                             | PNEC       | 932    | mg/kg |      |
|   | Environment - soil   |                             | PNEC       | 1860   | mg/kg |      |
|   | Environment - sewage<br>treatment plant                    |                             | PNEC       | 1      | mg/l  |      |
| Consumer                                      | Human - dermal   | Long term, systemic effects | DNEL       | 0,31   | mg/kg |      |
| Consumer                                      | Human - inhalation   | Long term, systemic effects | DNEL       | 1,09   | mg/m3 |      |
| Consumer                                      | Human - oral   | Long term, systemic effects | DNEL       | 0,31   | mg/kg |      |
| Workers / employees                           | Human - dermal   | Long term, systemic effects | DNEL       | 0,62   | mg/kg |      |
| Workers / employees                           | Human - inhalation   | Long term, systemic effects | DNEL       | 4,37   | mg/m3 |      |

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.

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 374). If applicable Protective PVC gloves (EN 374). Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes: > 480 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection: Normally not necessary. 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.

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

### 9.1 Information on basic physical and chemical properties

| Physical state:                          | Paste, liquid.             |
|--|----------------------------|
| Colour:                                  | According to specification |
| Odour:                                   | Characteristic             |
| Odour threshold:                         | Not determined             |
| pH-value:                                | n.a.                       |
| Melting point/freezing point:            | Not determined             |
| Initial boiling point and boiling range: | 170 °C                     |
| Flash point:                             | 101 °C                     |
| Evaporation rate:                        | Not determined             |
| Flammability (solid, gas):               | n.a.                       |
| Lower explosive limit:                   | Not determined             |
| Upper explosive limit:                   | Not determined             |
| Vapour pressure:                         | Not determined             |
|  |                            |



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Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

### 9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined Not determined n.a. Not determined Insoluble Not determined Not determined >7 mm2/s (40°C) Product is not explosive. No

Not determined Not determined Not determined Not determined Not determined

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

#### **10.1 Reactivity**

Not to be expected **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** See also section 7. Open flame, ignition sources **10.5 Incompatible materials** See also section 7. Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** See also section 5.2 No decomposition when used as directed.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

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



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| Toxicity / effect   | Endpoint | Value  | Unit          | Organism                  | Test method   | Notes   |
|---|----------|--------|---------------|---------------------------|---|---|
| Acute toxicity, by oral route:  | LD50     | 5800   | mg/kg         | Rat                       | OECD 401 (Acute Oral  |   |
|   |          |        |               |                           | Toxicity)   |   |
| Acute toxicity, by dermal route:  | LD50     | >15800 | mg/kg         | Rat                       |   |   |
| Acute toxicity, by inhalation:  | LC50     | 76     | mg/l/4h       | Rat                       |   |   |
| Skin corrosion/irritation:  |          |        |               | Guinea pig                |   | Repeated<br>exposure may<br>cause skin<br>dryness or<br>cracking., Not<br>irritant  |
| Serious eye damage/irritation:  |          |        |               | Rabbit                    | OECD 405 (Acute Eye<br>Irritation/Corrosion)                            | Eye Irrit. 2  |
| Respiratory or skin sensitisation:  |          |        |               | Guinea pig                | OECD 406 (Skin<br>Sensitisation)  | Not sensitizising   |
| Germ cell mutagenicity:   |          |        |               | Mouse                     | OECD 476 (In Vitro<br>Mammalian Cell Gene<br>Mutation Test)             | Negative  |
| Germ cell mutagenicity:   |          |        |               | Salmonella<br>typhimurium | OECD 471 (Bacterial<br>Reverse Mutation Test)                           | Negative  |
| Germ cell mutagenicity:   |          |        |               | Mammalian                 | OECD 473 (In Vitro<br>Mammalian<br>Chromosome<br>Aberration Test)       | Negative  |
| Reproductive toxicity<br>(Developmental toxicity):                        |          |        |               | Rat                       | OECD 414 (Prenatal<br>Developmental Toxicity<br>Study)                  | Negative  |
| Symptoms:   |          |        |               |                           |   | unconsciousnes<br>, vomiting,<br>headaches,<br>gastrointestinal<br>disturbances,<br>fatigue, mucous<br>membrane<br>irritation,<br>dizziness,<br>nausea,<br>drowsiness |
| Specific target organ toxicity -<br>repeated exposure (STOT-RE),<br>oral: | NOAEL    | 900    | mg/kg<br>bw/d | Rat                       | OECD 408 (Repeated<br>Dose 90-Day Oral<br>Toxicity Study in<br>Rodents) |   |

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |          |       |       |            |  |                   |  |  |
|---|----------|-------|-------|------------|--|-------------------|--|--|
| Toxicity / effect   | Endpoint | Value | Unit  | Organism   | Test method  | Notes             |  |  |
| Acute toxicity, by oral route:  | LD50     | >5000 | mg/kg | Rat        | OECD 401 (Acute Oral<br>Toxicity)                  |                   |  |  |
| Acute toxicity, by oral route:  | LD50     | >2000 | mg/kg | Rat        | OECD 401 (Acute Oral<br>Toxicity)                  |                   |  |  |
| Acute toxicity, by dermal route:                                      | LD50     | >2000 | mg/kg | Rat        | OECD 402 (Acute<br>Dermal Toxicity)                |                   |  |  |
| Skin corrosion/irritation:  |          |       |       | Rabbit     | OECD 404 (Acute<br>Dermal<br>Irritation/Corrosion) | Not irritant      |  |  |
| Serious eye damage/irritation:  |          |       |       | Rabbit     | OECD 405 (Acute Eye<br>Irritation/Corrosion)       | Not irritant      |  |  |
| Respiratory or skin sensitisation:                                    |          |       |       | Guinea pig | OECD 406 (Skin<br>Sensitisation)                   | Not sensitizising |  |  |
| Germ cell mutagenicity:   |          |       |       |            | OECD 471 (Bacterial<br>Reverse Mutation Test)      | Negative          |  |  |



Readily biodegradable

(Ready Biodegradability -Co2 Evolution Test)

| GB)   |                   |               |              |                |                |                        |               |
|---|-------------------|---------------|--------------|----------------|----------------|------------------------|---------------|
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|   |                   |               |              |                |                |                        |               |
| Reproductive toxicity:  |                   |               |              |                | Rat            | OECD 422 (Combined     | Negative      |
|   |                   |               |              |                |                | Repeated Dose Tox.     | -             |
|   |                   |               |              |                |                | Study with the         |               |
|   |                   |               |              |                |                | Reproduction/Developm. |               |
|   |                   |               |              |                |                | Tox. Screening Test)   |               |
|   |                   |               |              |                |                |                        |               |
|   |                   |               |              |                |                |                        |               |
|   |                   | SECTI         | ON 12- P     | inolog         | cal informatio | n                      |               |
|   |                   |               |              |                |                | /11                    |               |
|   |                   |               |              |                |                |                        |               |
| Possibly more information   | on environmenta   | al effects, s | ee Section 2 | 2.1 (classific | ation).        |                        |               |
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| Toxicity / effect   | Endpoint          | Time          | Value        | Unit           | Organism       | Test method            | Notes         |
| 12.1. Toxicity to fish:   | Lindpoint         |               | - Tuluo      | 0              | organioni      | Toot motiou            | n.d.a.        |
| 12.1. Toxicity to daphnia:  |                   |               |              |                |                |                        | n.d.a.        |
| 12.1. Toxicity to algae:  |                   |               |              |                |                |                        | n.d.a.        |
| 12.1. 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. Other adverse   |                   |               |              |                |                |                        | n.d.a.        |
| effects:  |                   |               |              |                |                |                        |               |
|   |                   | 1             | 1            | 1              |                | L.                     |               |
| Acetone   |                   |               |              |                |                |                        |               |
| Toxicity / effect   | Endpoint          | Time          | Value        | Unit           | Organism       | Test method            | Notes         |
| 12.2. Persistence and   | Lindpoint         | 30d           | 81-92        | %              | ergamon        | Regulation (EC)        | Readily       |
| degradability:  |                   | 000           | 01 02        | 70             |                | 440/2008 C.4-E         | biodegradable |
| degradability.  |                   |               |              |                |                | (DETERMINATIO          | biouegradable |
|   |                   |               |              |                |                | N OF 'READY'           |               |
|   |                   |               |              |                |                |                        |               |
|   |                   |               |              |                |                | BIODEGRADABILI         |               |
|   |                   |               |              |                |                | TY - CLOSED            |               |
|   |                   |               |              |                |                | BOTTLE TEST)           |               |
| 12.3. Bioaccumulative   | Log Pow           |               | -0,24        |                |                | OECD 107               |               |
| potential:  |                   |               |              |                |                | (Partition             |               |
|   |                   |               |              |                |                | Coefficient (n-        |               |
|   |                   |               |              |                |                | octanol/water) -       |               |
|   |                   |               |              |                |                | Shake Flask            |               |
|   |                   |               |              |                |                | Method)                |               |
| 12.3. Bioaccumulative   | BCF               |               | 0,19         |                |                |                        |               |
| potential:  |                   |               | 0,.0         |                |                |                        |               |
| 12.1. Toxicity to fish:   | LC50              | 96h           | 5540         | mg/l           | Oncorhynchus   |                        |               |
|   | 2000              | 0011          | 0040         | iiig/i         | mykiss         |                        |               |
| 12.1. Toxicity to fish:   | LC50              | 96h           | 7500         | mg/l           | Leuciscus idus |                        |               |
| 12.1. Toxicity to daphnia:  | EC50              | 48h           | 6100-        |                |                |                        |               |
|   | 2050              | 40[]          |              | mg/l           | Daphnia magna  | a                      |               |
| 10.4 T 1 1 4 1 1 1 1  | NOFOTIOF          |               | 12700        |                |                |                        |               |
| 12.1. Toxicity to daphnia:  | NOEC/NOEL         | 28d           | 2212         | mg/l           | Daphnia pulex  | OECD 211               |               |
|   |                   |               |              |                |                | (Daphnia magna         |               |
|   |                   |               |              |                |                | Reproduction Test)     |               |
| 12.1. Toxicity to daphnia:  | EC50              | 48h           | 8800         | mg/l           | Daphnia pulex  | OECD 202               |               |
|   |                   |               |              | -              |                | (Daphnia sp.           |               |
|   |                   |               |              |                |                | Acute                  |               |
|   |                   |               |              |                |                | Immobilisation         |               |
|   |                   |               |              |                |                | Test)                  |               |
| 12.2. Persistence and   |                   | 28d           | 91           | %              |                | OECD 301 B             | Readily       |
| IZ.Z. I GISISIGIIUE dilu  | 1                 | _ ∠ou         | 1 3 1        | /0             |                |                        | iteauliy      |

12.2. Persistence and degradability:

12.1. Toxicity to algae:

12.1. Toxicity to algae:

48h

48h

EC50

NOEC/NOEL

4740

3400

mg/l

mg/l

Pseudokirchneriell a subcapitata

Pseudokirchneriell

a subcapitata



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| Toxicity to bacteria:                    | BOD/COD | 16h   | 1700          | mg/l | Pseudomonas putida |  |   |
|--|---------|-------|---------------|------|--------------------|--|---|
| Toxicity to bacteria:                    | EC10    | 30min | 1000          | mg/l | activated sludge   | OECD 209<br>(Activated Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) |   |
| Other information:                       | BOD5    |       | 1760-<br>1900 | mg/g |                    |  |   |
| Other information:                       | AOX     |       | 0             | %    |                    |  |   |
| 12.5. Results of PBT and vPvB assessment |         |       |               |      |                    |  | No PBT<br>substance, No<br>vPvB substance |
| 12.4. Mobility in soil:                  |         |       |               |      |                    |  | No adsorption in soil.                    |

| oxicity / effect                     | Endpoint | Time | Value | Unit | Organism                   | Test method  | Notes   |
|--------------------------------------|----------|------|-------|------|----------------------------|--|---|
| 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:           | EC50     | 48h  | 51    | mg/l |                            | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |   |
| 12.1. Toxicity to algae:             | EC50     | 72h  | >100  | mg/l | Desmodesmus<br>subspicatus | OECD 201 (Alga,<br>Growth Inhibition<br>Test)  |   |
| 12.2. Persistence and degradability: |          |      |       |      |                            | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test)                                       | Not readily<br>biodegradable  |
| 12.2. Persistence and degradability: |          | 28d  | 1     | %    | activated sludge           | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test)                                       | Not readily<br>biodegradable  |
| 12.3. Bioaccumulative<br>potential:  | Log Pow  |      | >6    |      |                            |  | A notable<br>biological<br>accumulation<br>potential has to<br>be expected<br>(LogPow > 3). |
| Toxicity to bacteria:                | IC50     | 3h   | >100  | mg/l |                            | OECD 209<br>(Activated Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) |   |
| Toxicity to bacteria:                | EC50     |      | >100  | mg/l |                            | OECD 209<br>(Activated Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) |   |

## **SECTION 13: Disposal considerations**



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### **13.1 Waste treatment methods**

### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. 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)

07 06 99 wastes not otherwise specified

12 01 12 spent waxes and fats

Recommendation:

Sewage disposal shall be discouraged. Pay attention to local and national official regulations. Implement substance recycling. 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.

#### **SECTION 14: Transport information**

| n.a.           |  |  |
|----------------|--|--|
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|                |  |  |
| a.             |  |  |
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| a.             |  |  |
| а.             |  |  |
| a              |  |  |
| ot applicable  |  |  |
|                |  |  |
|                |  |  |
| а.             |  |  |
| а.             |  |  |
| Not applicable |  |  |
|                |  |  |
|                |  |  |

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

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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: General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):



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#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

3, 8, 11, 12, 15

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

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). H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic

#### 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 ADR 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) Acute Toxicity Estimate ATF BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dry weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN **European Norms** EPA United States Environmental Protection Agency (United States of America) etc. et cetera EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax number Fax. aen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential International Agency for Research on Cancer IARC



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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 GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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