

## 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

### LM 49 Fliesspaste

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

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

Lubricant

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 - Roller application or brushing

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

##### 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

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

#### 1.4 Emergency telephone number

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

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

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

### SECTION 2: Hazards identification

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## 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, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). 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

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Calcium fluoride   | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH)  | 01-2119491248-30-XXXX                                   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 232-188-7   |
| CAS  | 7789-75-5   |
| content %  | 0,3-<5  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | ---   |

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

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

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

## 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.

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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**

#### **Suitable extinguishing media**

CO<sub>2</sub>  
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 sulphur  
Hydrocarbons  
Hot product gives off combustible vapours.

### **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.  
Do not carry cleaning cloths soaked in product in trouser pockets.  
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) 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.  
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.

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### 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  
 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)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name  | Calcium fluoride  | Content %:0,3-<5 |  |
|--|---|------------------|--|
| WEL-TWA: 2,5 mg/m3 (fluoride (inorganic,as F)<br>(WEL, EU)               | WEL-STEL: ---   | ---              |  |
| Monitoring procedures:   | DFG (D) (Fluorwasserstoff und Fluoride), DFG (E) (Hydrogenfluoride and fluorides) - 2005<br>- NIOSH 7902 (Fluorides, aerosol and gas by ISE) - 1994<br>NIOSH 7906 (PARTICULATE FLUORIDES and HYDROFLUORIC ACID by Ion Chromatography) - 2014<br>- OSHA ID-110 (Fluoride (F <sup>-</sup> and HF) in workplace atmospheres) - 1991 - EU project<br>- BC/CEN/ENTR/000/2002-16 card 95-5 (2004) |                  |  |
| BMGV: ---  | Other information: ---  |                  |  |
| Chemical Name  | Silica, amorphous   | Content %:       |  |
| WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3<br>(resp. dust)            | WEL-STEL: ---   | ---              |  |
| Monitoring procedures:   | ---   |                  |  |
| BMGV: ---  | Other information: ---  |                  |  |
| Chemical Name  | Oil mist, mineral   | Content %:       |  |
| WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal<br>working fluids, ACGIH) | WEL-STEL: ---   | ---              |  |
| Monitoring procedures:   | - Draeger - Oil Mist 1/a (67 33 031)  |                  |  |
| BMGV: ---  | Other information: ---  |                  |  |
| Chemical Name  | Graphite  | Content %:       |  |
| WEL-TWA: 10 mg/m3 (total inh. dust), 4 mg/m3 (res.<br>dust)              | WEL-STEL: ---   | ---              |  |
| Monitoring procedures:   | ---   |                  |  |
| BMGV: ---  | Other information: ---  |                  |  |
| Chemical Name  | Tungsten disulphide   | Content %:       |  |
| WEL-TWA: 5 mg/m3 (insoluble compounds as W)                              | WEL-STEL: 10 mg/m3 (insoluble compounds as W)   | ---              |  |
| Monitoring procedures:   | ---   |                  |  |
| BMGV: ---  | Other information: ---  |                  |  |

| Silica, amorphous   |  |                  |            |       |            |      |
|---------------------|--|------------------|------------|-------|------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit       | Note |
|                     | Environment - oral (animal feed)           |                  | PNEC       | 60000 | mg/kg feed |      |

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|                     |                    |                          |      |   |                   |  |
|---------------------|--------------------|--------------------------|------|---|-------------------|--|
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 4 | mg/m <sup>3</sup> |  |
|---------------------|--------------------|--------------------------|------|---|-------------------|--|

| Zinc sulphide       |  |                             |            |       |                   |      |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|                     | Environment - freshwater                   |                             | PNEC       | 20,6  | µg/l              |      |
|                     | Environment - marine                       |                             | PNEC       | 6,1   | µg/l              |      |
|                     | Environment - sediment, freshwater         |                             | PNEC       | 117,8 | mg/kg dry weight  |      |
|                     | Environment - sediment, marine             |                             | PNEC       | 56,5  | mg/kg dry weight  |      |
|                     | Environment - soil                         |                             | PNEC       | 35,5  | mg/kg dry weight  |      |
|                     | Environment - sewage treatment plant       |                             | PNEC       | 100   | µg/l              |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,5   | mg/m <sup>3</sup> |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 83    | mg/kg bw/day      |      |
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL       | 0,83  | mg/kg bw/day      |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL       | 5     | mg/m <sup>3</sup> |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 83    | mg/kg 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.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

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Protective gloves, oil resistant (EN 374).  
 If applicable  
 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 A2 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:                          | Pastelike, Liquid |
| Colour:                                  | Black             |
| Odour:                                   | Characteristic    |
| Odour threshold:                         | Not determined    |
| pH-value:                                | n.a.              |
| Melting point/freezing point:            | Not determined    |
| Initial boiling point and boiling range: | Not determined    |
| Flash point:                             | >200 °C           |
| Evaporation rate:                        | Not determined    |
| Flammability (solid, gas):               | Not determined    |
| Lower explosive limit:                   | Not determined    |
| Upper explosive limit:                   | Not determined    |
| Vapour pressure:                         | Not determined    |
| Vapour density (air = 1):                | Not determined    |
| Density:                                 | 1,2 g/ml (20°C)   |
| Bulk density:                            | Not determined    |
| Solubility(ies):                         | Not determined    |
| Water solubility:                        | Insoluble         |
| Partition coefficient (n-octanol/water): | Not determined    |
| Auto-ignition temperature:               | Not determined    |
| Decomposition temperature:               | Not determined    |
| Viscosity:                               | Not determined    |
| Explosive properties:                    | Not determined    |
| Oxidising properties:                    | No                |

### 9.2 Other information

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|                           |                |
|---------------------------|----------------|
| Miscibility:              | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity:             | Not determined |
| Surface tension:          | Not determined |
| Solvents content:         | Not determined |

## 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

Open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

| LM 49 Fließpaste  |          |       |      |          |             |  |
|---|----------|-------|------|----------|-------------|--|
| 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 sensitisation:                            |          |       |      |          |             | n.d.a.   |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a.   |
| Carcinogenicity:  |          |       |      |          |             | n.d.a.   |
| Reproductive toxicity:  |          |       |      |          |             | n.d.a.   |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a.   |
| Aspiration hazard:  |          |       |      |          |             | n.d.a.   |
| Symptoms:   |          |       |      |          |             | n.d.a.   |
| Other information:  |          |       |      |          |             | Classification according to calculation procedure. |

| Calcium fluoride                   |          |       |         |          |  |                   |
|------------------------------------|----------|-------|---------|----------|--|-------------------|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism | Test method  | Notes             |
| Acute toxicity, by oral route:     | LD50     | 4250  | mg/kg   | Rat      |  |                   |
| Acute toxicity, by inhalation:     | LC50     | >5    | mg/l/4h | Rat      |  |                   |
| Skin corrosion/irritation:         |          |       |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Not irritant      |
| Serious eye damage/irritation:     |          |       |         | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)              | Not irritant      |
| Respiratory or skin sensitisation: |          |       |         | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |

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|           |  |  |  |  |  |   |
|-----------|--|--|--|--|--|---|
| Symptoms: |  |  |  |  |  | ataxia, respiratory distress, drop in blood pressure, diarrhoea, thirst, headaches, muscle weakness, nausea and vomiting. |
|-----------|--|--|--|--|--|---|

| Silica, amorphous                               |          |        |         |            |                                |   |
|---|----------|--------|---------|------------|--------------------------------|---|
| Toxicity / effect                               | Endpoint | Value  | Unit    | Organism   | Test method                    | Notes   |
| Acute toxicity, by oral route:                  | LD50     | >5000  | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity) | Analogous conclusion                                      |
| Acute toxicity, by dermal route:                | LD50     | >5000  | mg/kg   | Rabbit     |                                | References  |
| Acute toxicity, by inhalation:                  | LC50     | >0,139 | mg/l/4h | Rat        |                                | References, Maximum achievable concentration.             |
| Skin corrosion/irritation:                      |          |        |         | Rabbit     |                                | Not irritant, References                                  |
| Serious eye damage/irritation:                  |          |        |         | Rabbit     |                                | Not irritant, Mechanical irritation possible., References |
| Respiratory or skin sensitisation:              |          |        |         | Guinea pig |                                | Not sensitising   |
| Germ cell mutagenicity:                         |          |        |         |            |                                | Negative  |
| Carcinogenicity:                                |          |        |         |            |                                | No indications of such an effect.                         |
| Reproductive toxicity (Developmental toxicity): |          |        |         |            |                                | No indications of such an effect.                         |
| Symptoms:                                       |          |        |         |            |                                | eyes, reddened  |

| Graphite                           |          |       |          |                        |  |                        |
|------------------------------------|----------|-------|----------|------------------------|--|------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit     | Organism               | Test method  | Notes                  |
| Acute toxicity, by oral route:     | LD50     | >2000 | mg/kg    | Rat                    | OECD 401 (Acute Oral Toxicity)   |                        |
| Acute toxicity, by inhalation:     | NOAEC    | >2000 | mg/m3/4h | Rat                    | OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)   |                        |
| Acute toxicity, by inhalation:     | LC50     | >2000 | mg/m3/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)   | Aerosol                |
| Skin corrosion/irritation:         |          |       |          | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)   | Not irritant           |
| Serious eye damage/irritation:     |          |       |          | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)  | Not irritant           |
| Respiratory or skin sensitisation: |          |       |          | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)   | Not sensitising        |
| Germ cell mutagenicity:            |          |       |          | Salmonella typhimurium | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative               |
| Reproductive toxicity:             | NOAEL    | 813   | mg/kg    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |                        |
| Symptoms:                          |          |       |          |                        |  | breathing difficulties |



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**Tungsten disulphide**

| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method | Notes |
|--------------------------------|----------|-------|---------|----------|-------------|-------|
| Acute toxicity, by oral route: | LD50     | >2000 | mg/kg   | Rat      |             |       |
| Acute toxicity, by inhalation: | LC50     | >5,25 | mg/l/4h | Rat      |             | Dust  |

**SECTION 12: Ecological information**

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

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| 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 degradability:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator. |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a.   |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a.   |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a.   |
| 12.6. Other adverse effects:             |          |      |       |      |          |             | n.d.a.   |
| Other information:                       |          |      |       |      |          |             | According to the recipe, contains no AOX.          |

**Calcium fluoride**

| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism       | Test method | Notes |
|-------------------------|----------|------|-------|------|----------------|-------------|-------|
| 12.1. Toxicity to fish: | LC50     |      | 660   | mg/l | Leuciscus idus |             |       |

**Silica, amorphous**

| Toxicity / effect                        | Endpoint | Time | Value  | Unit | Organism          | Test method                                      | Notes                               |
|--|----------|------|--------|------|-------------------|--|-------------------------------------|
| 12.1. Toxicity to fish:                  | LC50     | 96h  | >10000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test)             |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 24h  | >10000 | mg/l | Daphnia magna     | OECD 202 (Daphnia sp. Acute Immobilisation Test) |                                     |
| 12.1. Toxicity to algae:                 | EL50     | 72h  | >10000 | mg/l |                   | OECD 201 (Alga, Growth Inhibition Test)          |                                     |
| 12.2. Persistence and degradability:     |          |      |        |      |                   |  | Abiotically degradable.             |
| 12.3. Bioaccumulative potential:         |          |      |        |      |                   |  | Not to be expected                  |
| 12.4. Mobility in soil:                  |          |      |        |      |                   |  | Not to be expected                  |
| 12.5. Results of PBT and vPvB assessment |          |      |        |      |                   |  | No PBT substance, No vPvB substance |

**Graphite**

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

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|                                      |      |     |      |      |                                 |  |   |
|--------------------------------------|------|-----|------|------|---------------------------------|--|---|
| 12.2. Persistence and degradability: |      |     |      |      |                                 |  | Inorganic products cannot be eliminated from water through biological purification methods. |
| 12.1. Toxicity to fish:              | LC50 | 96h | >100 | mg/l | Brachydanio rerio               | OECD 203 (Fish, Acute Toxicity Test)             |   |
| 12.1. Toxicity to daphnia:           | EC50 | 48h | >100 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |   |
| 12.1. Toxicity to algae:             | IC50 | 72h | 100  | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)          |   |
| Water solubility:                    |      |     |      |      |                                 |  | Insoluble   |

## SECTION 13: Disposal considerations

### 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)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

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

### General statements

14.1. UN number: n.a.

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

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### Transport by air (IATA)

14.2. UN proper shipping name:  
14.3. Transport hazard class(es): n.a.  
14.4. Packing group: n.a.  
14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

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:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 8

### 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).

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ASTM ASTM International (American Society for Testing and Materials)  
ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
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  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EC European Community

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ECHA European Chemicals Agency  
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)  
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  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC (Code) International Bulk Chemical (Code)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
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  
OECD Organisation for Economic Co-operation and Development  
org. organic  
PBT persistent, bioaccumulative and toxic  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
ppm parts per million  
PVC Polyvinylchloride  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 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  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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