

Page 1 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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

Bremsenfuehrungsstiftefett

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

Lubricating grease

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)

+1 872 5888271 (LMR)

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**

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

2.2 Label elements

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

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH208-Contains 5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione, Naphthenic acids, zinc salts, basic. May produce an allergic reaction.

2.3 Other hazards



(B)

Page 2 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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**

| Dilithium azelate | |
|------------------------------------------------------------------------|-----------------------|
| Registration number (REACH) | 01-2120119814-57-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 254-184-4 |
| CAS | 38900-29-7 |
| content % | 5-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H302 |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | |
|------------------------------------------------------------------------|----------------------------|
| Registration number (REACH) | 01-2119493635-27-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 224-235-5 |
| CAS | 4259-15-8 |
| content % | 1-<2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Dam. 1, H318 |
| | Aquatic Chronic 2, H411 |
| Specific Concentration Limits and ATE | Eye Dam. 1, H318: >=50 % |
| | Eve Irrit. 2. H319: >=50 % |

| 2,6-di-tert-butyl-p-cresol | |
|------------------------------------------------------------------------|-------------------------------|
| Registration number (REACH) | 01-2119565113-46-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 204-881-4 |
| CAS | 128-37-0 |
| content % | 0,25-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Aquatic Acute 1, H400 (M=1) |
| | Aquatic Chronic 1, H410 (M=1) |

| 5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione | |
|------------------------------------------------------------------------|-------------------------|
| Registration number (REACH) | 01-2120119820-64-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 276-763-0 |
| CAS | 72676-55-2 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Sens. 1B, H317 |
| | Aquatic Chronic 2, H411 |

| Naphthenic acids, zinc salts, basic | |
|------------------------------------------------------------------------|-------------------------|
| Registration number (REACH) | 01-2119988500-34-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 282-762-6 |
| CAS | 84418-50-8 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Sens. 1, H317 |
| | Aguatic Chronic 3, H412 |

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | |
|-----------------------------------------------------------------------|-----------------------|
| Registration number (REACH) | 01-2119491299-23-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 270-128-1 |
| | |



Page 3 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| CAS | 68411-46-1 |
|------------------------------------------------------------------------|-------------------------|
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Repr. 2, H361f |
| | Aquatic Chronic 3, H412 |

| Hexanoic acid, 2-ethyl-, zinc salt, basic | |
|------------------------------------------------------------------------|-------------------------|
| Registration number (REACH) | 01-2119979093-30-XXXX |
| Index | 607-230-00-6 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 286-272-3 |
| CAS | 85203-81-2 |
| content % | 0,1-<0,3 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Irrit. 2, H319 |
| | Repr. 1B, H360D |
| | Aquatic Chronic 3, H412 |

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

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

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

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. 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.

Sensitive individuals:

Allergic reaction possible.

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

CO₂

Foam

Dry extinguisher

Water mist

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:

Toxic gases

Oxides of carbon



Page 4 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

Lithium oxide

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.

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 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

Pick up mechanically 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.

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.

Store at room temperature.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.



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Page 5 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | 2,6-di-tert-butyl-p-cresol | | |
|------------------------|----------------------------|--------------------|--|
| WEL-TWA: 10 mg/m3 | WEL-STEL: | | |
| Monitoring procedures: | | | |
| BMGV: | | Other information: | |

| Area of application | exyl)] bis(dithiophosphate) Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|----------------------------------------------|--------------------------|------------|--------|--------|------|
| • • | Environmental | | · | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0,004 | mg/l | |
| | Environment - sediment, | | PNEC | 0,322 | mg/kg | |
| | freshwater | | | | | |
| | Environment - marine | | PNEC | 0,0046 | mg/l | |
| | Environment - sediment, | | PNEC | 0,032 | mg/kg | |
| | marine | | | | | |
| | Environment - soil | | PNEC | 0,062 | mg/kg | |
| | Environment - air | | PNEC | 7,1 | mg/m3 | |
| | Environment - sewage | | PNEC | 3,8 | mg/l | |
| | treatment plant | | | | | |
| | Environment - oral (animal | | PNEC | 8,33 | mg/kg | |
| | feed) | | | | | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,67 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic | DNEL | 4,8 | mg/kg | |
| | | effects | | | bw/day | |
| Consumer | Human - oral | Long term, systemic | DNEL | 0,19 | mg/kg | |
| | | effects | | | | |
| Workers / employees | Human - inhalation | Short term, systemic | DNEL | 0,42 | mg/m3 | |
| | | effects | | | | |
| Workers / employees | Human - dermal | Short term, local | DNEL | 0,09 | mg/cm2 | |
| | | effects | | | | |
| Workers / employees | Human - inhalation | Short term, local | DNEL | 0,42 | mg/m3 | |
| | | effects | | | | |
| Workers / employees | Human - dermal | Long term, systemic | DNEL | 9,59 | mg/kg | |
| | | effects | | | | |
| Workers / employees | Human - inhalation | Long term, systemic | DNEL | 6,6 | mg/m3 | |
| | | effects | | | | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,09 | mg/cm2 | |

| Area of application | Exposure route / | Exposure route / Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--------------------------|-----------------------------------|------------|--------|-------|-------|
| Area or application | Environmental | Litect on ficaltif | Descriptor | Value | Oille | 14010 |
| | | | | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0,003 | mg/l | |
| | Environment - marine | | PNEC | 0,0003 | mg/l | |
| | Environment - sediment, | | PNEC | 0,0388 | mg/kg | |
| | marine | | | | | |
| | Environment - sediment, | | PNEC | 0,0039 | mg/kg | |
| | marine | | | | | |
| | Environment - sewage | | PNEC | 0,31 | mg/l | |
| | treatment plant | | | | | |
| | Environment - soil | | PNEC | 0,006 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,87 | mg/m3 | |



Page 6 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,25 | mg/kg | |
|---------------------|--------------------|-----------------------------|------|------|-------|--|
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,25 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 3,53 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,5 | mg/kg | |

| Exposure route / Environmental | Effect on health | | Value | Unit | Note |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Descriptor | 7 4.1.0.0 | J | |
| compartment | | | | | |
| Environment - freshwater | | PNEC | 0,199 | µg/l | |
| Environment - marine | | PNEC | | | |
| Environment - water, | | PNEC | 1,99 | | |
| sporadic (intermittent) | | | | | |
| release | | | | | |
| Environment - sediment, | | PNEC | 0,996 | mg/kg dw | |
| freshwater | | | | | |
| Environment - sediment, | | PNEC | 0,00996 | mg/kg dw | |
| marine | | | | | |
| Environment - soil | | PNEC | 0,04769 | mg/kg | |
| Environment - oral (animal | | PNEC | 8,33 | mg/kg | |
| feed) | | | | | |
| Environment - sewage | | PNEC | 0,17 | mg/l | |
| treatment plant | | | | | |
| Human - oral | Long term, systemic | DNEL | 0,25 | mg/kg bw/d | |
| | *************************************** | | | | |
| Human - dermal | | DNEL | 0,25 | mg/kg bw/d | |
| | | | | | |
| Human - inhalation | Long term, systemic | DNEL | 0,86 | mg/m3 | |
| | | | | | |
| Human - dermal | | DNEL | 0,5 | mg/kg bw/d | |
| | | | | | |
| Human - inhalation | | DNEL | 3,5 | mg/m3 | |
| | Environment - marine Environment - water, sporadic (intermittent) release Environment - sediment, freshwater Environment - sediment, marine Environment - soil Environment - oral (animal feed) Environment - sewage treatment plant | Environment - marine Environment - water, sporadic (intermittent) release Environment - sediment, freshwater Environment - sediment, marine Environment - soil Environment - oral (animal feed) Environment - sewage treatment plant Human - oral Long term, systemic effects Human - inhalation Long term, systemic effects Human - dermal Long term, systemic effects | Environment - marine Environment - water, sporadic (intermittent) release Environment - sediment, freshwater Environment - sediment, marine Environment - soil Environment - oral (animal feed) Environment - sewage treatment plant Human - oral Long term, systemic effects Human - inhalation Long term, systemic effects Human - dermal Long term, systemic effects Human - dermal Long term, systemic effects DNEL effects Human - inhalation Long term, systemic effects DNEL effects DNEL effects Human - inhalation Long term, systemic effects DNEL effects DNEL | Environment - marine Environment - water, sporadic (intermittent) release Environment - sediment, freshwater Environment - sediment, marine Environment - soil Environment - oral (animal feed) Environment - sewage treatment plant Human - oral Long term, systemic effects Human - inhalation Long term, systemic effects Human - dermal Long term, systemic effects Human - dermal Long term, systemic effects DNEL 0,25 DNEL 0,26 DNEL 0,26 DNEL 0,27 DNEL 0,27 DNEL 0,28 DNEL 0,29 DNEL 0,29 DNEL 0,25 DNEL 0,25 DNEL 0,25 DNEL 0,36 DNEL 0,56 DNEL 0,56 DNEL 0,56 DNEL 0,56 DNEL 0,56 | Environment - marine Environment - water, sporadic (intermittent) release Environment - sediment, freshwater Environment - sediment, marine Environment - sediment, marine Environment - soil Environment - oral (animal feed) Environment - sewage treatment plant Human - oral Long term, systemic effects Human - inhalation Environment PNEC 0,00996 mg/kg dw mg/kg dw mg/kg mg/k |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|------------------------------------------------------------|-----------------------------|------------|---------|-------|------|
| | Environment - freshwater | | PNEC | 0,0012 | mg/l | |
| | Environment - marine | | PNEC | 0,00012 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,51 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,0246 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,00246 | mg/kg | |
| | Environment - soil | | PNEC | 0,0193 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 0,187 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,22 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,1 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,05 | mg/kg | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,07 | mg/kg | |



Page 7 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Workers / employees Human - inhalation | Long term, systemic effects | DNEL | 0,31 | 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".

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:

With danger of contact with eyes.

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>= 0.38

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:

Normally not necessary.

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.



Page 8 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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, solid.

Colour: Light brown Odour:

There is no information available on this parameter. Melting point/freezing point: 200 °C (Drop point)

Boiling point or initial boiling point and boiling range: There is no information available on this parameter. Flammability:

Not combustible. Lower explosion limit: Does not apply to solids.

Upper explosion limit: Does not apply to solids. Flash point: Does not apply to solids.

Auto-ignition temperature: Does not apply to solids.

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

Mixture is non-soluble (in water).

Kinematic viscosity: There is no information available on this parameter. Solubility:

Insoluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures. Vapour pressure:

There is no information available on this parameter.

1,15 g/ml (25°C) Does not apply to solids.

Relative vapour density: Particle characteristics: There is no information available on this parameter.

9.2 Other information

Density and/or relative density:

No information available at present.

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

See also section 7.

None known

10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also section 5.2

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).

| Bremsenfuehrungsstiftefett |
|----------------------------|
| |

| Toxicity / effect Endpoint Value Unit Organism Test method Notes | L | Dremsemuem ungssmelen | | | | | | |
|------------------------------------------------------------------|---|-----------------------|----------|-------|------|----------|-------------|-------|
| | [| Toxicity / effect | Enapoint | Value | Unit | Organism | Test method | Notes |



Page 9 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Acute toxicity, by oral route: | ATE | 37600 | mg/kg | calculated value |
|----------------------------------|-----|-------|-------|------------------|
| 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. |

| Dilithium azelate | | | | | | | | |
|----------------------------------|----------|-------|-------|----------|------------------------------------------------------|----------------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | LD50 | >300 | mg/kg | Rat | OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) | Analogous conclusion | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | | | |

| Zinc bis[O,O-bis(2-ethylhexyl)] | bis(dithiopho | sphate) | | | | |
|---------------------------------------------------------------------|---------------|---------|-------|------------|-------------------------------------------------------------------------|-------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 3100 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Male |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Serious eye damage/irritation: | | >=50 | % | | | Eye Dam. 1 |
| Serious eye damage/irritation: | | >=50 | % | | | Eye Irrit. 2in mineral oil |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 30 | mg/kg | Rat | OECD 421 (Reproduction/Developm ental Toxicity Screening Test) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | 125 | mg/kg | | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | |

| 2,6-di-tert-butyl-p-cresol | | | | | | | | |
|------------------------------------|----------|-------|-------|------------|-------------------------------------|-------------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | LD50 | 2930 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | | | |
| Skin corrosion/irritation: | | | | | | Irritant | | |
| Serious eye damage/irritation: | | | | | | Irritant | | |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) | | |

5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione



Page 10 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 $\,$ / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| 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 dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute | |
| | | | | | Dermal Toxicity) | |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | Sensitising |
| sensitisation: | | | | | Sensitisation - Local | |
| | | | | | Lymph Node Assay) | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 487 (In Vitro | Negative |
| | | | | | Mammalian Cell | _ |
| | | | | | Micronucleus Test) | |

| 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 dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Mild irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 487 (In Vitro Mammalian Cell Micronucleus Test) | Negative |
| Reproductive toxicity: | | | | Rat | OECD 443 (Extended One-Generation Reproductive Toxicity Study) | Possible risk of impaired fertility. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | Target organ(s): Thyroid, Target organ(s): liver |

| Hexanoic acid, 2-ethyl-, zinc sa | Hexanoic acid, 2-ethyl-, zinc salt, basic | | | | | | | | |
|----------------------------------|-------------------------------------------|-------|-------|-------------|-------------|-------------------|--|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | | |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | | | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | | | | |
| Skin corrosion/irritation: | | | | | | Not irritant | | | |
| Serious eye damage/irritation: | | | | Rabbit | | Irritant | | | |
| Respiratory or skin | | | | | | Not sensitizising | | | |
| sensitisation: | | | | | | | | | |
| Reproductive toxicity | | | | Human being | | Repr. 1B, | | | |
| (Developmental toxicity): | | | | | | Analogous | | | |
| , , , | | | | | | conclusion | | | |

11.2. Information on other hazards

| 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. |



Page 11 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | | | | | | | |
|-----------------------------------------------------------------------|-----------------------------------------------------------|--|--|--|--|----|--|
| Toxicity / effect | y / effect Endpoint Value Unit Organism Test method Notes | | | | | | |
| Endocrine disrupting properties: | | | | | | No | |

SECTION 12: Ecological information

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

| Bremsenfuehrungsstifte 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. |

| Dilithium azelate | | | | | | | |
|--------------------------------------|----------|------|-------|------|---------------|--------------------------------------------------------------|----------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 100 | mg/l | | 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: | EC50 | 72h | 100 | mg/l | | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Inherent, Biodegradable |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|-------|------|-------------------------|--------------------------------------------------------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 4,4 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 4d | 3,2 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 75 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,4 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | ErC50 | 72h | >240 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 3d | 220 | mg/l | Scenedesmus quadricauda | | |



Page 12 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| 12.2. Persistence and | COD | 28d | <5 | % | | OECD 301 D | Not readily |
|-----------------------|-------|-----|-----|------|-------------|---------------------|-------------------|
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | Closed Bottle Test) | |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | 380 | mg/l | Pseudomonas | OECD 209 | |
| | | | | | putida | (Activated Sludge, | |
| | | | | | | Respiration | |
| | | | | | | Inhibition Test | |
| | | | | | | (Carbon and | |
| | | | | | | Ammonium | |
| | | | | | | Oxidation)) | |
| Other information: | AOX | | 0 | % | | Oxidation)) | Does not contain |
| Other information. | / NOX | | | 70 | | | any organically |
| | | | | | | | bound halogens |
| | | | | | | | which can |
| | | | | | | | |
| | | | | | | | contribute to the |
| | | | | | | | AOX value in |
| | | | | | | | waste water. |

| 2,6-di-tert-butyl-p-cresol | | | | | | | |
|--------------------------------------|-----------|------|-------|------|---------------|------------------------------------------------------------------------------|--------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,199 | mg/l | | QSAR | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >0,39 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,48 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | IC50 | 72h | 0,42 | mg/l | | | |
| 12.2. Persistence and degradability: | | | 30 | % | | OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 598 | | | | Concentration in organisms possible. |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,03 | | | | QSAR |
| Toxicity to bacteria: | EC50 | 24h | 1,7 | mg/l | | | Tetrahymena pyriformis |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|----------------------------------|----------------------------------------------------------------------|------------------------------|
| 12.1. Toxicity to fish: | EC50 | 96h | >454 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 20 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 0 | % | activated sludge | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Not readily biodegradable |



Page 13 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---------------------------|----------|------|-------|--------|-------------------|------------------------------------|---------------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity | |
| | | | | | | Test) | |
| 2.1. Toxicity to daphnia: | EC50 | 48h | 51 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 2.1. Toxicity to daphnia: | EC10 | 21d | 1,69 | mg/l | Daphnia magna | OECD 211 | |
| | | | | | | (Daphnia magna | |
| 2.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Desmodesmus | Reproduction Test) OECD 201 (Alga, | |
| 2.1. Toxicity to algae. | EC30 | 7211 | >100 | IIIg/I | subspicatus | Growth Inhibition | |
| | | | | | Subspicatus | Test) | |
| 2.2. Persistence and | Log Koc | | 3,8 | | | | calculated valu |
| egradability: | Ü | | | | | | |
| 2.3. Bioaccumulative | BCF | 42d | 1730 | | Cyprinus caprio | | Analogous |
| otential: | | | | | | | conclusion |
| 2.5. Results of PBT | | | | | | | No PBT |
| nd vPvB assessment | | | | | | | substance, No vPvB substance |
| 2.6. Endocrine | | | | | | | No |
| isrupting properties: | | | | | | | NO |
| oxicity to bacteria: | EC20 | 3h | ~100 | mg/l | activated sludge | OECD 209 | |
| | | | | 1119,1 | | (Activated Sludge, | |
| | | | | | | Respiration | |
| | | | | | | Inhibition Test | |
| | | | | | | (Carbon and | |
| | | | | | | Ammonium | |
| | F040 | 50-1 | 050 | | Figure 4 at the | Oxidation)) | |
| oxicity to annelids: | EC10 | 56d | 259 | mg/kg | Eisenia foetida | OECD 222 (Earthworm | |
| | | | | | | Reproduction Test | |
| | | | | | | (Eisenia | |
| | | | | | | fetida/Eisenia | |
| | | | | | | andrei)) | |

| Hexanoic acid, 2-ethyl-, zinc salt, basic | | | | | | | | |
|-------------------------------------------|----------|------|-------|------|----------|-------------|----------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | |
| 12.5. Results of PBT | | | | | | | No PBT | |
| and vPvB assessment | | | | | | | substance, No | |
| | | | | | | | vPvB substance | |

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)

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.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.



Page 14 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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

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 applicable

14.4. Packing group: Not applicable14.5. Environmental hazards: Not applicable

14.5. Environmental hazards:

Tunnel restriction code:

Classification code:

Not applicable

Not applicable

Not applicable

Not applicable

Transport category:

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 applicable

FmS:

Not applicable

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.

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:

Comply with trade association/occupational health regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 7, 8, 11, 12, 15

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):



(B)

Page 15 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|-----------------------------------------------------------------------|----------------------------------------------------|
| 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).

H360D May damage the unborn child.

H361f Suspected of damaging fertility.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

Skin Sens. — Skin sensitization Repr. — Reproductive toxicity

Eye Irrit. — Eye irritation

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.

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)

BCF Bioconcentration factor

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



Page 16 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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

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)

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 applicablen.av. not availablen.c. not checkedn.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)

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



GB)

Page 17 of 17

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

Revision date / version: 23.03.2023 / 0006

Replacing version dated / version: 13.06.2022 / 0005

Valid from: 23.03.2023 PDF print date: 23.03.2023 Bremsenfuehrungsstiftefett

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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