

## Klüberplex BE 31-222

Version 1.6

Revision Date 06.07.2020

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### 1. Identification of the substance/mixture and of the company/undertaking

#### Product information

Product name : Klüberplex BE 31-222

Article-No. : 017132

Use of the  
Substance/Mixture : Grease

Company : Klüber Lubrication München  
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Deutschland  
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(Centro de información Toxicológica de la Facultad  
de Medicina de la Pontificia Universidad Católica)  
  
+49 89 7876 700 (24 hrs)

### 2. Hazards identification

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS-Labeling

Not a hazardous substance or mixture.

### 3. Composition/information on ingredients

Chemical nature : Mineral oil.

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special calcium soap

### Hazardous components

Chemical name	CAS-No.	Concentration[%]
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	50 - 70
Reaction mixture of hydrogenated tallow alkyl amines with sebacic acid and calcium hydroxide	1282612-32-1	20 - 30
2,5-bis(tert-dodecyldithio)- 1,3,4-thiadiazole	59656-20-1	1 - 2,5
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	1 - 2,5

## 4. First aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
Wash off with soap and water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
Do not induce vomiting without medical advice.

### Notes to physician

- Symptoms : No information available.
- Risks : None known.
- Treatment : No information available.

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### 5. Firefighting measures

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media                | : High volume water jet   |
| Specific hazards during firefighting          | : Fire may cause evolution of:<br>Carbon oxides<br>Metal oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulphur oxides   |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health. |
| Further information                           | : Standard procedure for chemical fires.  |

### 6. Accidental release measures

- |                           |   |
|---------------------------|---|
| Personal precautions      | : Evacuate personnel to safe areas.<br>Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).<br>Do not breathe vapours, aerosols.<br>Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : Try to prevent the material from entering drains or water courses.<br>Local authorities should be advised if significant spillages cannot be contained.   |
| Methods for cleaning up   | : Clean up promptly by sweeping or vacuum.<br>Keep in suitable, closed containers for disposal.   |

### 7. Handling and storage

#### Handling

- |                         |   |
|-------------------------|---|
| Advice on safe handling | : For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash hands and face before breaks and immediately after handling the product. |
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### Storage

Requirements for storage areas and containers : Store in original container.  
Keep container closed when not in use.  
Keep in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with the particular national regulations.  
Keep in properly labelled containers.

## 8. Exposure controls/personal protection

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
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### Engineering measures

none

### Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.  
Filter type P

Hand protection : Nitrile rubber  
Manufacturer, importer, supplier: Class 1  
Break through time: > 10 min  
For prolonged or repeated contact use protective gloves.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Tightly fitting safety goggles

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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### 9. Physical and chemical properties

#### Appearance

Form	: paste
Colour	: beige
Odour	: characteristic

#### Safety data

Flash point	: Note: Not applicable
Ignition temperature	: Remarks: No data available
Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
Flammability (solid, gas)	: Combustible Solids
Oxidizing properties	: Note: No data available
Auto-ignition temperature	: Note: No data available
pH	: Note: No data available
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Sublimation point	: Note: No data available
Vapour pressure	: < 0,01 hPa at 20 °C
Density	: 0,96 g/cm <sup>3</sup> at 20 °C
Bulk density	: Note: No data available
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: Note: No data available
Solubility in other solvents	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available

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Relative vapour density : Note: No data available

Evaporation rate : Note: No data available

### 10. Stability and reactivity

Conditions to avoid : No conditions to be specially mentioned.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Thermal decomposition : Note: No data available

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg

Method: Calculation method

#### Skin corrosion/irritation

Skin irritation : Remarks: This information is not available.

#### Serious eye damage/eye irritation

Eye irritation : Remarks: This information is not available.

#### Respiratory or skin sensitisation

Sensitisation : Remarks: This information is not available.

#### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Germ cell mutagenicity

Remarks

2,5-bis(tert-dodecylthio)- : Tests on bacterial or mammalian cell cultures did not show

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1,3,4-thiadiazole mutagenic effects.

### Carcinogenicity

#### Remarks

Distillates (petroleum),  
hydrotreated heavy paraffinic : Not classifiable as a human carcinogen.

2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : Not classifiable as a human carcinogen.

### Teratogenicity

#### Remarks

#### Teratogenicity

Distillates (petroleum),  
hydrotreated heavy paraffinic : No toxicity to reproduction

2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : Animal testing did not show any effects on foetal  
development.  
No toxicity to reproduction

### Target Organ Systemic Toxicant - Single exposure

2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : Remarks: The substance or mixture is not classified as  
specific target organ toxicant, single exposure.

### Target Organ Systemic Toxicant - Repeated exposure

: This information is not available.

### Target Organ Systemic Toxicant - Repeated exposure

2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : Remarks: The substance or mixture is not classified as  
specific target organ toxicant, repeated exposure.

### Aspiration hazard

Aspiration toxicity : This information is not available.

Further information : Information given is based on data on the components and  
the toxicology of similar products.

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## 12. Ecological information

### Ecotoxicity effects

Toxicity to fish :  
Remarks:  
No data available

Toxicity to daphnia and other : Remarks:

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aquatic invertebrates                      No data available

Toxicity to algae                              : Remarks:  
No data available

Toxicity to bacteria                         : Remarks:  
No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
Distillates (petroleum),                    : NOEC: 10 mg/l  
hydrotreated heavy paraffinic            Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
semi-static test  
Method: OECD Test Guideline 211

### Elimination information (persistence and degradability)

Bioaccumulation                             : Remarks:  
This mixture contains no substance considered to be  
persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very  
persistent and very bioaccumulating (vPvB).

Mobility                                        : Remarks:  
No data available

Distribution among                         : Remarks:  
environmental compartments            No data available

Biodegradability                             : Remarks:  
No data available

Physico-chemical                            : Remarks:  
removability                                 No data available

### Further information on ecology

Short-term (acute) aquatic hazard  
2,5-bis(tert-dodecylthio)-                    : Harmful to aquatic life.  
1,3,4-thiadiazole  
Benzenamine, N-phenyl-,                    :  
reaction products with 2,4,4-  
trimethylpentene

Long-term (chronic) aquatic hazard



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2,5-bis(tert-dodecyldithio)- 1,3,4-thiadiazole	: Harmful to aquatic life with long lasting effects.
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	: This product has no known ecotoxicological effects.
2,5-bis(tert-dodecyldithio)- 1,3,4-thiadiazole	:
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	:
2,5-bis(tert-dodecyldithio)- 1,3,4-thiadiazole	:
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	:
2,5-bis(tert-dodecyldithio)- 1,3,4-thiadiazole	:
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	:
Results of PBT assessment Distillates (petroleum), hydrotreated heavy paraffinic	: Non-classified vPvB substance, Non-classified PBT substance
Additional ecological information	: No information on ecology is available.

### 13. Disposal considerations

Product	: The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	: Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

### 14. Transport information

#### ADR

Not dangerous goods

#### IATA

Not dangerous goods

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### IMDG

Not dangerous goods

Other information : No special precautions required.

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## 15. Regulatory information

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## 16. Other information

### Further information

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