

## Klüberplex BE 31-222

Version 1.7

Revision Date 06.07.2020

Print Date 06.07.2020

### 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  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 333  
info@klueber.com

E-mail address : mcm@klueber.com  
Material Compliance Management

National contact : KLUEBER LUBRICATION OOO  
Prosp. Andropova 18, bldg. 6, office 5-12  
115432 Moscow  
Russian Federation  
Tel.: +7 (499) 418 00 33  
Fax: +7 (499) 418 00 34  
sales@ru.klueber.com

Emergency telephone number : +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.  
special calcium soap

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### 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.

### 5. Firefighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides  
Metal oxides  
Nitrogen oxides (NOx)  
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.  
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods for cleaning up : Clean up promptly by sweeping or vacuum.  
Keep in suitable, closed containers for disposal.

### 7. Handling and storage

#### Handling

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

#### 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

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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.

### 9. Physical and chemical properties

#### Appearance

- Form : paste  
Colour : beige

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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

Relative vapour density : Note: No data available

Evaporation rate : Note: No data available

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### 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  
Distillates (petroleum),  
hydrotreated heavy paraffinic : LD50: > 5.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401
- Reaction mixture of  
hydrogenated tallow alkyl  
amines with sebacic acid and  
calcium hydroxide : LD50: > 2.000 mg/kg  
Species: Rat  
Method: Directive 67/548/EEC, Annex V, B.1.
- 2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : LD50: > 5.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401
- Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene : LD50: > 5.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Remarks: This information is not available.
- Acute dermal toxicity  
Distillates (petroleum),  
hydrotreated heavy paraffinic : LD50: > 5.000 mg/kg  
Species: Rabbit  
Method: OECD Test Guideline 402
- Reaction mixture of  
hydrogenated tallow alkyl  
amines with sebacic acid and  
calcium hydroxide : LD50: > 2.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402
- 2,5-bis(tert-dodecyldithio)-  
1,3,4-thiadiazole : LD50: > 2.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402  
Remarks: Information given is based on data obtained from  
similar substances.

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Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene : LD50: > 2.000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402

**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-dodecyldithio)-1,3,4-thiadiazole : Tests on bacterial or mammalian cell cultures did not show 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.

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### 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 aquatic invertebrates : Remarks:  
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), hydrotreated heavy paraffinic : NOEC: 10 mg/l  
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



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Distribution among environmental compartments : Remarks:  
No data available

Biodegradability : Remarks:  
No data available

Physico-chemical removability : Remarks:  
No data available

**Further information on ecology**

Short-term (acute) aquatic hazard

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : Harmful to aquatic life.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene :

Long-term (chronic) aquatic hazard

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.

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### 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.

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### 14. Transport information

#### ADR

Not dangerous goods

#### IATA

Not dangerous goods

#### 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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