

## Klübersynth GE 14-151 (H)

Version 1.7

Revision Date 22.06.2021

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

#### Product information

Product name : Klübersynth GE 14-151 (H)

Article-No. : 012364

Use of the Substance/Mixture : Grease

Company : Klüber Lubrication München  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel: +49 (0) 89 7876 0  
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E-mail address : mcm@klueber.com  
Material Compliance Management

National contact : KLÜBER LUBRICATION CHILE LTDA  
Av. Eduardo Frei Montalva 9950 B1  
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Teléfono: +56 2 27471188  
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ventas@cl.klueber.com

Emergency telephone number : +56 2 2582 9336  
  
+56 2 26353800 CITUC  
(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

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Chemical nature : Synthetic hydrocarbon oil  
ester oil  
aluminium complex soap  
solid lubricant

### Hazardous components

Chemical name	CAS-No.	Concentration[%]
(benzoato-O,O')hydroxy(octadecanoato-O,O')aluminium	54326-11-3	1 - 10
disodium sebacate	17265-14-4	2,5 - 10
White mineral oil (petroleum)	8042-47-5	1 - 10
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	1 - 2,5
Molybdenum, bis(dibutylcarbamodithioato)di- $\mu$ -oxodioxido-, sulfurized	68412-26-0	1 - 2,5
2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole	59656-20-1	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.

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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
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)  
Sulphur oxides  
Oxides of phosphorus  
Metal 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.

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### 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.

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### 7. Handling and storage

#### Handling

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the

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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 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 : Safety glasses with side-shields

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 : yellow  
  
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: Not applicable  
Melting point/range : Note: No data available  
Boiling point/boiling range : Note: No data available  
Sublimation point : Note: No data available  
Vapour pressure : < 0,001 hPa  
at 20 °C  
Density : 0,93 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

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Viscosity, kinematic : Note: Not applicable  
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  
Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### 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

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- disodium sebacate : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- White mineral oil (petroleum) : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### Remarks

- White mineral oil (petroleum) : No evidence of carcinogenicity in animal studies.
- 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : Not classifiable as a human carcinogen.

### Reproductive toxicity

- White mineral oil (petroleum) : Species: Rat  
Application Route: Dermal  
Method: OECD Test Guideline 415

#### Teratogenicity

- White mineral oil (petroleum) : Species: Rat  
Application Route: Oral

### Teratogenicity

#### Remarks

#### Teratogenicity

#### Teratogenicity

#### Teratogenicity

- disodium sebacate : No effects on or via lactation  
No toxicity to reproduction
- White mineral oil (petroleum) : No effects on or via lactation  
No toxicity to reproduction
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized : No toxicity to reproduction
- 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : Animal testing did not show any effects on foetal development.

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No toxicity to reproduction

### Target Organ Systemic Toxicant - Single exposure

White mineral oil (petroleum) : Remarks: The substance or mixture is not classified as specific target organ 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

White mineral oil (petroleum) : Remarks: The substance or mixture is not classified as specific target organ 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



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### Toxicity to fish (Chronic toxicity)

White mineral oil (petroleum) : NOEC: > 100 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks:  
The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

White mineral oil (petroleum) : NOEC: >= 1.000 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks:  
The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

### 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 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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene :  
Molybdenum, bis(dibutylcarbamodithioato)d i-μ-oxodioxodi-, sulfurized 2,5-bis(tert-dodecyldithio)- : Harmful to aquatic life.

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1,3,4-thiadiazole

Long-term (chronic) aquatic hazard

- Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene : This product has no known ecotoxicological effects.
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : May cause long lasting harmful effects to aquatic life.
- Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene : Harmful to aquatic life with long lasting effects.
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized 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 : Harmful to aquatic life with long lasting effects.
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized 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 : Harmful to aquatic life with long lasting effects.
- Molybdenum, bis(dibutylcarbamodithioato)d i- $\mu$ -oxodioxodi-, sulfurized 2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole : Harmful to aquatic life with long lasting effects.

Results of PBT assessment

- White mineral oil (petroleum) : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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.

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### 14. Transport information

#### ADR

Not dangerous goods

#### IATA

Not dangerous goods

#### IMDG

Not dangerous goods

#### RID

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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