

## Klübersynth GEM 4-100 N (H)

Version 2.5

Revision Date 13.04.2021

Print Date 13.04.2021

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

#### Product information

Product name : Klübersynth GEM 4-100 N (H)

Article-No. : 012377

Use of the Substance/Mixture : Lubricating oil

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 : Klüber Lubricación Mexicana, S.A. de C.V.  
Parque Industrial Querétaro  
Av. La Montaña 109  
76220 Santa Rosa Jáuregui, Querétaro  
México  
Tel: +52 442 22957 00  
Fax: +52 442 22957 10  
ventas@kluber.com.mx

Emergency telephone number : +52 442 2295708 (24hrs)

### 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 : Synthetic hydrocarbon oil ester oil

No hazardous ingredients

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### 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.  
In case of contact, immediately flush skin with plenty of 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.  
Rinse mouth with water.

### 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.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon 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 personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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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 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.

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### 8. Exposure controls/personal protection

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Engineering measures

none

#### Personal protective equipment

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- Respiratory protection : Not required; except in case of aerosol formation.  
Filter type A-P
- Hand protection : Nitrile rubber  
Manufacturer, importer, supplier: Class 1  
Break through time: > 10 min  
Wear 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

- Physical state : liquid  
Colour : yellow
- Odour : characteristic

#### Safety data

- Flash point : > 200 °C  
Method:  
open cup
- Ignition temperature : Remarks: No data available
- Lower explosion limit : Note: No data available
- Upper explosion limit : Note: No data available
- Flammability (solid, gas) : Not applicable
- Oxidizing properties : Note: No data available

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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	: 0.85 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	: 100 mm <sup>2</sup> /s at 40 °C
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

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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

### Target Organ Systemic Toxicant - Repeated exposure

: This information is not available.

### 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:

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No data available

Toxicity to bacteria : Remarks:  
No data available

**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**

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**

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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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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