

Klübersynth GEM 4-220 N (H)

Version 2.6

Revision Date 15.07.2020

Print Date 15.07.2020

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

Product information

Product name : Klübersynth GEM 4-220 N (H)

Article-No. : 012351

Use of the
Substance/Mixture : Lubricating oil

Company : Klüber Lubrication München
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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.
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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 |
| Specific hazards during firefighting | : | Fire may cause evolution of:
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). |

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. |
|---|---|---|

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.

9. Physical and chemical properties

Appearance

Physical state	: liquid
Colour	: yellow
Odour	: characteristic

Safety data

Flash point	: ≥ 200 °C
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
Auto-ignition temperature	: Note: No data available

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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	: < 0.001 hPa at 20 °C
Density	: 0.86 g/cm ³ 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	: 220 mm ² /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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

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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.

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

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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 : Remarks:
environmental compartments No data available

Biodegradability : Remarks:
No data available

Physico-chemical : Remarks:
removability No data available

Further information on ecology

Additional ecological : No information on ecology is available.
information

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

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IATA

Not dangerous goods

IMDG

Not dangerous goods

Other information : No special precautions required.

15. Regulatory information

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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