System - RU



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 : Lubricating oil

Substance/Mixture

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

Russian Federation Tel.: +7 (499) 418 00 33 Fax: +7 (499) 418 00 34 sales@ru.klueber.com

115432 Moscow

Emergency telephone

number

: +49 89 7876 700 (24 hrs)

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS-Labelling

Not a hazardous substance or mixture.

3. Composition/information on ingredients

Chemical nature : Synthetic hydrocarbon oil

ester oil

No hazardous ingredients



System - RU



Klübersynth GEM 4-220 N (H)

Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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.





Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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



System - RU



Klübersynth GEM 4-220 N (H)

Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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 : $>= 200 \, ^{\circ}\text{C}$

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





Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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/cm3

at 20 °C

Bulk density : Note: No data available

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

Viscosity, dynamic

Solubility in other solvents

: Note: No data available

: Note: No data available: Note: No data available

Viscosity, kinematic : 220 mm2/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

Thermal decomposition : Note: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity

Remarks: This information is not available.

: No decomposition if stored and applied as directed.

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



Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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

: Remarks:

aquatic invertebrates

No data available

Toxicity to algae : Remarks:

No data available





Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

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:

Biodegradability : Remarks:

No data available

: Remarks:

Physico-chemical

removability No data available

Further information on ecology

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





Version 2.6 Revision Date 15.07.2020 Print Date 15.07.2020

IATA

Not dangerous goods

IMDG

Not dangerous goods

Other information : No special precautions required.

15. Regulatory information

16. Other information

Further information

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