

Cluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 14/10/2025

Revision date: 14/10/2025

Supersedes:

Version: 1.0

SECTION 1: Identification

1.1 Product identifier

Product name Kluebersynth GEM 4-220 N (H)
Product form Mixture
Product code BU ET&A

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use Lubricant
Restrictions on use For professional use only

1.4 Details of manufacturer or importer

Supplier

Klüber Lubrication München GmbH & Co. KG
Geisenhausenerstr. 7
München 81379
Germany
T +49 89 7876-0
mcm@klueber.com

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
Schaan 9494
Liechtenstein
T +423 234 2111
product.compliance-power.tools@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance
+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

according to the Hazardous Substances and New Organisms Act (1996)

3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
1-Propene, 2-methyl-, sulfurized	CAS-No.: 68511-50-2	1 – 2.5	Aquatic Chronic 4, H413

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If experiencing respiratory symptoms: Call a poison center or a doctor. If breathing is irregular or stopped, administer artificial respiration.
First-aid measures after skin contact	Take off contaminated clothing. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	Move the affected person to the fresh air. Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

4.2. Symptoms caused by exposure

Symptoms/effects	No additional information.
------------------	----------------------------

4.3. Medical attention and special treatment

Other medical advice or treatment	Treat symptomatically.
-----------------------------------	------------------------

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray. Alcohol resistant foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Explosion hazard	No direct explosion hazard.
Reactivity in case of fire	Decomposition products may be a hazard to health.
Hazardous decomposition products in case of fire	Carbon oxides (CO, CO ₂). Sulphur oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Ventilate spillage area. Evacuate unnecessary personnel.

Kluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up

Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Methods and Equipment for Containment and Cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible, Collect spillage, Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Keep in a cool, well-ventilated place away from heat. Comply with applicable regulations.

Storage conditions

Keep cool. Protect from sunlight. Keep container closed when not in use. Keep only in original container.

Heat and ignition sources

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

Monitoring methods

A specific exposure sampling method is not available.

8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

protective gloves. Nitrile rubber gloves

Eye protection

Chemical goggles or safety glasses

Skin and body protection

Wear suitable protective clothing

Respiratory protection

Avoid breathing dust, mist or spray. In order to avoid inhalation of mist/vapour, all spraying must be done wearing adequate respirator

Kluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	Yellow
Odour	characteristic
Odour threshold	No additional information available
pH	No additional information available
Evaporation rate	No additional information available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	No additional information available
Boiling point	No data available
Flash point	≥ 200 °C
Auto-ignition temperature	No data available
Flammability	No additional information available
Vapour pressure	Vapour pressure: < 0.001 hPa (20 °C)
Relative density	Relative gas density: 0.861 (20°C)
Density	Density: 0.86 g/cm³ (20°C)
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	220 mm²/s (40 °C)
Viscosity, dynamic	No data available
Explosive properties	No data available
Explosive limits	No additional information available
Minimum ignition energy	No data available
VOC content	< 3 %

SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	: Not classified

Kluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Kluebersynth GEM 4-220 N (H)	
Viscosity, kinematic	220 mm²/s (40 °C)
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified
Other information	Avoid release to the environment.

12.2. Persistence and degradability

Kluebersynth GEM 4-220 N (H)	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

Kluebersynth GEM 4-220 N (H)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

Kluebersynth GEM 4-220 N (H)	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	Avoid release to the environment.
Additional information	Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

Kluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date 14/10/2025
Revision date 14/10/2025

Kluebersynth GEM 4-220 N (H)

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.