

# Cluebersynth GEM 4-100 N (H)

## Safety Data Sheet

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

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Supersedes:

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name Kluebersynth GEM 4-100 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](mailto: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](mailto: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

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### 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 affected person to breathe fresh air. Allow the victim to rest. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

### 4.2. Symptoms caused by exposure

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
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### 4.3. Medical attention and special treatment

Other medical advice or treatment	Treat symptomatically.
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## 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

General measures	If spilled, may cause the floor to be slippery.
Hazardous decomposition products in case of fire	Carbon oxides (CO, CO <sub>2</sub> ). Sulphur oxides.

### 5.3. Special protective equipment and precautions for fire-fighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	If spilled, may cause the floor to be slippery.
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#### 6.1.1. For non-emergency personnel

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

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### 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

Keep in suitable, closed containers for disposal.

Methods for cleaning up

Absorb spilled material with sand or earth. 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.

Storage conditions

Keep cool. Protect from sunlight. Store in a dry place. 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

Nitrile rubber gloves

Eye protection

Chemical goggles or safety glasses

Skin and body protection

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Avoid release to the environment.

Other information

Do not eat, drink or smoke during use.

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### 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	Melting point: Not applicable
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	No additional information available
Density	Density: 0.85 g/cm <sup>3</sup> (20 °C)
Solubility	No additional information available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	100 mm <sup>2</sup> /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

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

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Viscosity, kinematic	100 mm <sup>2</sup> /s (40 °C)

Potential adverse human health effects and symptoms      Based on available data, the classification criteria are not met.

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### 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 4-100 N (H)	
Persistence and degradability	No additional information available.

#### 12.3. Bioaccumulative potential

Kluebersynth GEM 4-100 N (H)	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

Kluebersynth GEM 4-100 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 in a safe manner in accordance with local/national regulations. 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 /

ADR	IMDG	IATA	RID
<b>14.1. UN number or ID number</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	RID
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
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

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### Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE - Acute Toxicity Estimate  
 BCF - Bioconcentration factor  
 BLV - Biological limit value  
 BOD - Biochemical oxygen demand (BOD)  
 COD - Chemical oxygen demand (COD)  
 DMEL - Derived Minimal Effect level  
 DNEL - Derived-No Effect Level  
 EC-No. - European Community number  
 EC50 - Median effective concentration  
 EN - European Standard  
 IARC - International Agency for Research on Cancer  
 IATA - International Air Transport Association  
 IMDG - International Maritime Dangerous Goods  
 LC50 - Median lethal concentration  
 LD50 - Median lethal dose  
 LOAEL - Lowest Observed Adverse Effect Level  
 NOAEC - No-Observed Adverse Effect Concentration  
 NOAEL - No-Observed Adverse Effect Level  
 NOEC - No-Observed Effect Concentration  
 OECD - Organisation for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 PBT - Persistent Bioaccumulative Toxic  
 PNEC - Predicted No-Effect Concentration  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS - Safety Data Sheet  
 STP - Sewage treatment plant  
 ThOD - Theoretical oxygen demand (ThOD)  
 TLM - Median Tolerance Limit  
 VOC - Volatile Organic Compounds  
 CAS-No. - Chemical Abstract Service number  
 N.O.S. - Not Otherwise Specified  
 vPvB - Very Persistent and Very Bioaccumulative  
 ED - Endocrine disruptor  
 None.

### Other information

Full text of H-statements	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
H413	May cause long lasting harmful effects to aquatic life

SDS\_NZ\_Hilti

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.