

Cluebersynth GEM 4-100 N (H)

Safety Data Sheet

According to SS 586 Part 3 (2022)
Issue date: 08.05.2025

Revision date: 08.05.2025

Supersedes:

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

| | |
|--------------|------------------------------|
| Product name | Cluebersynth GEM 4-100 N (H) |
| 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. Supplier's details

Supplier

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

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100 Schaan Liechtenstein 9494
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 |
|------------------|--|

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Not classified as hazardous according to GHS

2.2. GHS label elements, including precautionary statements

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the applicable regulations

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). |
| 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. |
| 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. |

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| 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. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|------------------|--|
| Symptoms/effects | Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|--|

4.3. Indication of immediate medical attention and special treatment needed, if necessary

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

SECTION 5: Fire-fighting measures

5.1. Suitable 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

| | |
|--|---|
| Hazardous decomposition products in case of fire | Carbon oxides (CO, CO ₂). Sulphur oxides. |
|--|---|

5.3. Special protective actions 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

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|---|--|
| General measures | If spilled, may cause the floor to be slippery. |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | Wear recommended personal protective equipment. |
| Emergency procedures | Ventilate spillage area. Evacuate unnecessary personnel. |
| 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

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|---|
| 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 material 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. |
| Other information | Dispose of materials or solid residues at an authorized site. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | Not expected to present a significant hazard under anticipated conditions of normal use. |
| 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. |

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| | |
|--------------------------------|-------------------|
| Particle aspect ratio | No data available |
| Particle specific surface area | No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Acute 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 |

| Kluebersynth GEM 4-100 N (H) | |
|------------------------------|--------------------------------|
| Viscosity, kinematic | 100 mm ² /s (40 °C) |
| Density | 0.85 g/cm ³ (20 °C) |

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

SECTION 12: Ecological information

12.1. Toxicity

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

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Hazardous to the aquatic environment, long-term (chronic) 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.
Additional information Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

| 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

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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

| Regulation | Component / Mixture |
|--|---------------------|
| Arms and Explosives Act | Not applicable |
| Chemical Weapons Prohibition Act | |
| Environmental Protection and Management (Air Impurities) Regulations | |
| Environmental Protection and Management Act (Hazardous Substances) | |
| Environmental Public Health (Quality of Piped Drinking Water) Regulations | |
| Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations | |
| Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations | |
| Misuse of Drugs Act | |
| Poisons Act | |
| Poisons Rules | |
| Hazardous waste (Control of export, import and transit) Act | |
| Strategic goods (Control) Act | |

15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

| | |
|----------------------------|---|
| Issue date | 08/05/2025 |
| Revision date | 08/05/2025 |
| 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 |

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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 disrupting properties
None.

Other information

SDS_SG_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.