

Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

Issue date: 15/10/2025 Revision date: 15/10/2025 : Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name Kluebersynth GEM 4-32 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

Use of the substance/mixture Lubricant

Restrictions on use For professional use only

1.4. Supplier's details

Supplier Department issuing data specification sheet

Klüber Lubrication München GmbH & Co. KG Hilti AG

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 Feldkircherstraße 100

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 FL 9494 Schaan

 Germany
 Liechtenstein

 T +49 89 7876-0
 T +423 234 2111

mcm@klueber.com product.compliance-power.tools@hilti.com

1.5. Emergency phone number

Emergency number Emergency CONTACT (24-Hour-Number):

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

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

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3.2. Mixtures

Name	Product identifier		Classification according to the United Nations GHS
1-Propene, 2-methyl-, sulfurized	CAS-No.: 68511-50-2	1 – 2.5	Hazardous to the aquatic environment – Chronic Hazard, Category 4, H413

Full text of H-statements: see section 16

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. Most important symptoms/effects, acute and delayed

Symptoms/effects No additional information.

Potential adverse human health effects and Ba

symptoms

Based on available data, the classification criteria are not met.

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

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

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, CO2). Sulphur oxides.

5.3. Special protective actions 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

Prevention Measures for Secondary Accidents No additional information available.

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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.

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

Methods for cleaning up

Hygiene measures

Storage conditions

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. 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.

Other information

Dispose of materials or solid residues at an authorized site.

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. 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.

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/personal protection

8.1. Control parameters

Monitoring methods	
Monitoring methods	A specific exposure sampling method is not available.

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

8.3. 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 Wear security glasses which protect from splashes

Skin and body protection Wear suitable protective clothing

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Respiratory protection

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

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Liquid Colour Yellow. characteristic. Odour Odour threshold Not available Melting point Not applicable Not available Freezing point Boiling point Not available Flammability Not available Lower explosion limit Not available Upper explosion limit Not available Flash point ≥ 200 °C ISO 2592 Auto-ignition temperature Not available Decomposition temperature Not available Not available pH solution Not available Viscosity, kinematic (calculated value) (40 °C) 32 mm²/s (40 °C) Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure < 0.001 hPa (20 °C) Vapour pressure at 50°C Not available Density 0.85 g/cm3 (20°C) Not available Relative density Relative vapour density at 20°C Not available Solubility insoluble in water. Particle size Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content 0.14 %

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. Extremely high or low temperatures.

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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

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 sensitization 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 4-32 N (H)

Viscosity, kinematic 32 mm²/s (40 °C)

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

symptoms

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.

Not classified

Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

12.2. Persistence and degradability

Kluebersynth GEM 4-32 N (H)		
Persistence and degradability	No additional information available.	
1-Propene, 2-methyl-, sulfurized (68511-50-2)		
1-Propene, 2-methyl-, sulfurized (68511-50-2)		

12.3. Bioaccumulative potential

Kluebersynth GEM 4-32 N (H)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

Kluebersynth GEM 4-32 N (H)	
Mobility in soil	No additional information available

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12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation Disposal must be done according to official regulations.

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 /

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

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SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms ACGIH - American Conference of Government Industrial Hygienists

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)
CAS-No. - Chemical Abstract Service number

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

COD - Chemical oxygen demand (COD)

CSA - Chemical safety assessment

DMEL - Derived Minimal Effect level

DNEL - Derived-No Effect Level

EC-No. - European Community number

EC50 - Median effective concentration

ED - Endocrine disruptor

EN - European Standard

EWC - European waste catalogue

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

Log Kow - Partition coefficient n-octanol/water (Log Kow)

Log Pow - Partition coefficient n-octanol/water (Log Pow)

MAK - maximum workplace concentration

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

N.O.S. - Not Otherwise Specified

OECD - Organisation for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OSHA - Occupational Safety Health Administration

PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

PPE - Personal protection equipment

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

STP - Sewage treatment plant

TF - Technical function

ThOD - Theoretical oxygen demand (ThOD)

TLM - Median Tolerance Limit

TWA - Time Weighted Average

VOC - Volatile Organic Compounds

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vPvB - Very Persistent and Very Bioaccumulative

UFI - Unique Formula Identifier

Other information None.

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_UN_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.

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