

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**

**MSA - AME 507**

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Print date: 07.02.2023

Version 2.0 EN

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. Product identifier

Trade name/designation

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Mixture for industrial use:

Non-water-miscible minimum quantity lubricant, free of mineral oil

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

unitech Kühlschmierstoffe GmbH  
Röntgenstraße 7, D-57439 Attendorn  
Telephone: +49 (0) 2722 9376-0

Department responsible for information:  
Abteilung Produktsicherheit  
Telephone: +49 (0) 2722 9376-17  
E-mail: Produktsicherheit@unitech-kss.de

1.4. Emergency telephone number

+49 (0) 2722 9376-54

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**\*SECTION 2: Hazard identification**

2.1. Classification of the substance or mixture

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms  
not applicable

Signal word:  
not applicable

Hazard statements  
not applicable

Precautionary Statements  
not applicable

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties.

Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

Mixture based on Fatty acid esters, colored

#### Hazardous ingredients

Designation:	Identifier	Concentration	Assessment/classification*
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This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Take off immediately all contaminated clothing and wash it before reuse.

##### Following inhalation

Remove person to fresh air and keep comfortable for breathing.

##### Following skin contact

Wash with plenty of soap and water.

##### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### In case of ingestion

Do NOT induce vomiting. Rinse out mouth immediately and then drink plenty of water. Get medical advice/attention.

Never give anything by mouth to an unconscious person or a person with cramps.

#### 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

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No further relevant information available.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, water mist

Unsuitable extinguishing media

full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

Cool closed containers that are near the source of the fire.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

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

Avoid contact with eyes and skin. Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

### 6.2. Environmental precautions

Do not allow it to enter surface water, sewers or the ground. In the event of leakage into surface waters, the sewage system or underground, inform the responsible authority.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

### 6.3. Methods and material for containment and cleaning up

Wipe up liquid with absorbent material or absorb with universal binding agent and dispose of according to regulations.

### 6.4. Reference to other sections

none

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Use personal protection equipment.

Avoid unprotected skin contact, use gloves (e.g. nitrile rubber) if necessary.

Avoid: aerosol or mist formation

Technical measures and storage conditions

Ensure adequate ventilation, if necessary by means of local exhaust ventilation.

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**7.2. Conditions for safe storage, including any incompatibilities**

Store protected from frost and heat. Store in closed containers.

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage (Germany)

Storage class 10 - 13

**7.3. Specific end use(s)**

Mixture for industrial use

Non-water-miscible minimum quantity lubricant, free of mineral oil

Germany: The following DGUV documents must be observed:

Germany: DGUV rule 109-003 (formerly BGR / GUV-R 143) "Activities with cooling lubricants"

Germany: DGUV-Information 209-024 (formerly BGI / GUV-I 718) "Minimum quantity lubrication in machining production"

Germany: DGUV-Information 213-723 (formerly BGI / GUV-I 790-023) "Minimum quantity lubrication in metal cutting"

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**\*SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Contains no substances with occupational exposure limits (DE, TRGS 900).

**8.2. Exposure controls**

Protective and hygiene measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Wash hands before breaks and meals. Use moisturizing cream after work. Keep away from food and beverages. Do not carry cleaning rags soaked in the product in your clothing.

Personal protection equipment

Respiratory protection

Not required with adequate ventilation.

Hand protection

When handling the product, use protective gloves made of suitable material (e.g. nitrile rubber, permeation time >480 min) that have been tested in accordance with EN 374.

Use oil-insoluble skin protection cream if gloves are not allowed to be worn.

Observe skin protection plan.

Eye protection

Wear closely fitting protective glasses in case of splashes (DIN EN 166).

Body protection

Workwear.

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Environmental exposure controls  
See sections 6 and 7.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state		liquid	
Colour		green	
Odour		typical	
pH	g/L Water, 20 °C	not applicable	
Melting point/freezing point		< -40	°C
Initial boiling point and boiling range		not determined	°C
Flash point (ASTM D 92)		> 290	°C
lower explosion limit		not determined	Vol%
Upper explosion limit		not determined	Vol%
Ignition temperature		not determined	°C
flammability		not determined	°C
Vapour pressure	20 °C	< 1	hPa
Density	20 °C	917	kg/m <sup>3</sup>
Water solubility	20 °C	slightly soluble	g/L
Partition coefficient: n-octanol/water		not determined	log Pow
Kinematic viscosity	40 °C	46	mm <sup>2</sup> /s
Relative vapor density	20 °C	not determined	

### 9.2. Other information

none

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

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**\*SECTION 11: Toxicological information**

11.1. Information on the hazard classes in accordance with Regulation (EC) No. 1272/2008

Acute toxicity

ATEmix calculated:

ATEmix (oral): > 2000 mg/kg

ATEmix (dermal): > 2000 mg/kg

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Sensitisation to the respiratory tract

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other dangers

Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

**\*SECTION 12: Ecological information**

12.1. Toxicity

Aquatic toxicity

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

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT: Criteria are not met

vPvB: Criteria are not met

12.6. Endocrine disrupting properties

Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties.

12.7. Other adverse effects

The product is a water-polluting liquid. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Product

Hand it over to an approved disposal company in compliance with the local official regulations.

EU-waste code

The waste code has to be identified in agreement with the disposal company or the competent authority.

Recommended waste code when used properly:

12 01 19 \* easily biodegradable machining oils

Packaging

Empty container optimally. Handover to an approved waste disposal company. Barrels and IBCs can be reconditioned. Purification by recyclers.

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**SECTION 14: Transport information**

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

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14.3. Transport hazard class(es)  
not applicable

14.4. Packing group  
not applicable

14.5. Environmental hazards  
not applicable

14.6. Special precautions for user  
not applicable

14.7. Transport in bulk by sea 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

EU legislation

Information on Directive 2010/75/EU on the limitation of emissions of volatile organic compounds  
The product contains "volatile organic compounds" (VOC).  
Content: 0%

National regulations  
Germany

31st BImSchV  
The product contains "volatile organic compounds" (VOC).  
Content: 0%

Water Hazard Class:  
slightly hazardous to water (WGK 1)

15.2. Chemical Safety Assessment

To date, no chemical safety assessments are available for the substance described here or the ingredients of the mixture described here.

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**SECTION 16: Other information**

Further information

Methods according to Article 9 of Regulation (EC) No. 1272/2008 were used to evaluate the information for the purpose of classification:

Physical hazards: evaluation of test data (flash point)

Health and environmental hazards: calculation method

Change service

Changed chapters are marked with a \*.



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The information is based on our current level of knowledge. They are intended to describe our products with regard to safety requirements and are therefore not intended to guarantee certain properties.

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End of the safety data sheet