

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

**HOSMAC - S 160 HJ**

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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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UFI: 2KQR-4XNM-E226-7N49

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

Mixture for industrial use:

Water-miscible cooling lubricant, containing 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

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

Skin Irrit. 2, H315

Eye Dam. 1, H318

Aquatic Chronic 3, H412

2.2. Label elements

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

Hazard pictograms



Signal word:

Danger

Hazard components for labelling

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Contains: 2-phenoxyethanol, 2-(2-aminoethoxy)ethanol

**Hazard statements**

H315 Causes skin irritation  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects

**Precautionary Statements**

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor

**Further safety characteristics (supplemental)**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one (BIT). May produce an allergic reaction.  
 Contains: 3-iodo-2-propynyl butylcarbamate (IPBC)

**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.

**\*SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

Mixture contains Distillates (petroleum), Fatty acid amides, Alkanolamines, anionic surfactants, non-ionic surfactants, Corrosion protection additives and biocides

**Hazardous ingredients**

Designation:	Identifier	Concentration	Assessment/classification*
Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified (IP 346: DMSO-extract < 3%)	CAS: 64742-53-6 EG: 265-156-6 REACH: 01-2119480375-34	10 - 50 %	Asp. Tox. 1, H304

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2,2'-(methylimino)diethanol	CAS: 105-59-9 EG: 203-312-7 REACH: 01-2119488970-24	10 - 20 %	Eye Irrit. 2, H319
2-phenoxyethanol	CAS: 122-99-6 EG: 204-589-7 REACH: 01-2119488943-21	3 - 8 %	Acute Tox. 4, H302 STOT SE 3, H335 Eye Dam. 1, H318 ATE oral: 1394 mg/kg
Oligomerisation products of ethylene oxide with reaction products of rape oil and ethanolamine	EG: 932-164-2 REACH: 01-2119565130-50	3 - 8 %	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), $\alpha$ -(carboxymethyl)- $\omega$ -[(9Z)-9-octadecen-1-yloxy]-	CAS: 57635-48-0 EG: 611-563-2	1 - 3 %	Eye Dam. 1, H318
2-(2-aminoethoxy)ethanol	CAS: 929-06-6 EG: 213-195-4 REACH: 01-2119520701-52	1 - 3 %	Skin Corr. 1B, H314 Eye Dam. 1, H318
2-amino-2-methylpropanol	CAS: 124-68-5 EG: 204-709-8 REACH: 01-2119475788-16	1 - 3 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Neodecanoic acid	CAS: 26896-20-8 EG: 248-093-9 REACH: 01-2119449554-33	1 - 3 %	Acute Tox. 4, H302
Poly(oxy-1,2-ethanediyl), $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy-, phosphate	CAS: 39464-69-2 EG: 609-690-3	< 0,25 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412
3-iodo-2-propynyl butylcarbamate (IPBC)	CAS: 55406-53-6 EG: 259-627-5 REACH: 01-2120762115-60	< 0,1 %	Acute Tox. 2, H330, ATE (inhal.): 0,17 mg/l (dust and mists) Acute Tox. 4, H302 STOT RE 1, H372 (larynx) Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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1,2-benzisothiazol-3(2H)-one (BIT)	CAS: 2634-33-5 EG: 220-120-9 REACH: 01-2120761540-60	< 0,036 %	Acute Tox. 2, H330 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 (SCL: c > 0,036%) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) ATE inhal.: 0,21 mg/L (dust or mist) ATE oral: 450 mg/kg
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\* Full text of H- and EUH-statements: see section 16.

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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

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

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**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>), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides

**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.

**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)**

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Mixture for industrial use  
 Water-miscible cooling lubricant, containing mineral oil

Germany: The DGUV rule 109-003 "Activities with cooling lubricants" must be observed.

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

8.1. Control parameters

Components with workplace-related limit values to be monitored:  
 Occupational exposure limit values (DE, TRGS 900)

Identifier	Designation:	air limit AGW (DE)		peak limitation
		ml/m <sup>3</sup>	mg/m <sup>3</sup>	
CAS: 105-59-9 EG: 203-312-7 REACH: 01-2119488970-24	2,2'-(methylimino)diethanol	0,1	0,5	1 (I)
CAS: 122-99-6 EG: 204-589-7 REACH: 01-2119488943-21	2-phenoxyethanol	1	5,7	1(I)
CAS: 929-06-6 EG: 213-195-4 REACH: 01-2119520701-52	2-(2-aminoethoxy)ethanol	0,2	0,87	1(I)
CAS: 124-68-5 EG: 204-709-8 REACH: 01-2119475788-16	2-amino-2-methylpropanol	1	3,7	2 (II)
CAS: 55406-53-6 EG: 259-627-5 REACH: 01-2120762115-60	3-iodo-2-propynyl butylcarbamate (IPBC)	0,005	0,058	2 (I)

Derived no-effect level (DNEL) according to Regulation (EC) No. 1907/2006:

substance name	scope of application	routes of exposure	Possible damage to health	Value

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Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified (IP 346: DMSO-extract < 3%) CAS-Nr.: 64742-53-6	worker	inhalation	Long-term - systemic effects	2,73 mg/m <sup>3</sup>
2,2'-(methylimino)diethanol CAS-Nr.: 105-59-9	worker	inhalation	Long-term - systemic effects	7,9 mg/m <sup>3</sup>
2-phenoxyethanol CAS-Nr.: 122-99-6	worker	inhalation	Long-term - systemic effects	5,7 mg/m <sup>3</sup>
2-(2-aminoethoxy)ethanol CAS-Nr.: 929-06-6	worker	inhalation	Long-term - systemic effects	16,8 mg/m <sup>3</sup>
2-amino-2-methylpropanol CAS-Nr.: 124-68-5	worker	inhalation	Long-term - systemic effects	6,5 mg/m <sup>3</sup>
Neodecanoic acid CAS-Nr.: 26896-20-8	worker	inhalation	Long-term - systemic effects	86 mg/m <sup>3</sup>
3-iodo-2-propynyl butylcarbamate (IPBC) CAS-Nr.: 55406-53-6	worker	inhalation	Long-term - systemic effects	0,023 mg/m <sup>3</sup>
1,2-benzisothiazol-3(2H)-one (BIT) CAS-Nr.: 2634-33-5	worker	inhalation	Long-term - systemic effects	6,81 mg/m <sup>3</sup>

**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 concentrate, 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 water-insoluble protective skin cream when handling the emulsion 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**

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Workwear.

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		yellow	
Odour		typical	
pH	50 g/L Water, 20°C, like 24 h	9,7	
Melting point/freezing point		not determined	°C
Initial boiling point and boiling range		not determined	°C
Flash point (ASTM D 92)		> 100	°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	not determined	hPa
Density	20 °C	995	kg/m <sup>3</sup>
Water solubility	20 °C	emulsifiable	g/L
Partition coefficient: n-octanol/water		not determined	log Pow
Kinematic viscosity	20 °C	approx. 140	mm <sup>2</sup> /s
Relative vapor density	20 °C	not determined	

### 9.2. Other information

Secondary amine content: <0.2%

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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

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In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides

**\*SECTION 11: Toxicological information**

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

Acute toxicity

Designation:	LD50 oral	LD50 dermal
2-phenoxyethanol	ATE: 1394 mg/kg	
3-iodo-2-propynyl butylcarbamate (IPBC)	ATE: 1666,7 mg/kg	
1,2-benzisothiazol-3(2H)-one (BIT)	ATE oral: 450 mg/kg	

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 the available data, the classification criteria are met.

Skin Irrit. 2, H315 Causes skin irritation

Serious eye damage/eye irritation

Based on the available data, the classification criteria are met.

Eye Dam. 1, H318 Causes serious eye damage.

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.

EUH208: Contains 1,2-benzisothiazol-3(2H)-one (BIT). May produce an allergic reaction.

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.

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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.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Aquatic toxicity

Based on the available data, the classification criteria are met.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects

**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.

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Recommended waste code when used properly:

12 01 07 \* mineral-based machining oils free of halogens (except emulsions and solutions)

12 01 09 \* halogen-free machining emulsions and solutions

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
- 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

National regulations  
Germany

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**

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Abbreviations and acronyms used for hazard statements and hazard classes

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
STOT SE	STOT-single exposure
STOT RE	STOT-repeated exposure
Aquatic Acute	Acute hazardous to the aquatic environment
Aquatic Chronic	Long term hazardous to the aquatic environment

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

Health and environmental hazards: calculation method taking neutralization into account

Change service

Changed chapters are marked with a \*.

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