

**HOSMAC – S 3630**

Version 6.0 EN

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Date printed: 24.04.2018  
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**\*1. Identification of the substance / mixture and of the company / undertaking**

Product identifier

Trade name

**HOSMAC – S 3630**

Use of the substance/mixture

Mixture for industrial use

Water-miscible coolant lubricant, containing mineral oil

Company/undertaking identification

unitech Kühlschmierstoffe GmbH

Röntgenstrasse 7, D-57439 Attendorn

Telephone: +49 (0) 2722 9376-0

Fax: +49 (0) 2722 9376-76

Information on substance/mixture:

Product Safety Department

Telephone: +49 (0) 2722 9376-17

E-Mail: Produktsicherheit@unitech-kss.de

Emergency telephone: +49 (0) 2722 9376-54

**\*2. Hazards identification**

Classification of the mixture

Regulation (EC) No. 1272/2008 (EU-GHS)

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Labelling

Regulation (EC) No. 1272/2008

Pictogram



Signal word      Warning

Hazardous components for labeling

Contains:      3-amino-4-octanol

Hazard statements

H315      Causes skin irritation.

H319      Causes serious eye irritation.

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Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

Further labeling elements:

- EUH208 Contains 1,2-benzisothiazol-3(2H)-one and 2-methyl-2H-isothiazol-3-one.  
 May produce an allergic reaction.

Contains 3-iodo-2-propynyl-butylcarbamate

Other hazards

Results of PBT and vPvB assessment

- PBT: not applicable  
 vPvB: not applicable.

**\*3. Composition / information on ingredients**

General designation of constituents

Formulation contains mineral oil, boric acid/alkanolamines-neutralisation-products, fatty acid derivatives, anionic and non-ionic surfactants

Designation constituents

Designation	CAS-No.	Concentration	Risk Notes*
Distillates (petroleum), hydrotreated light naphthenic (IP 346: DMSO-extract < 3%)	64742-53-6	10 – 50 %	Asp. Tox. 1, H304
2,2'-(methylimino)diethanol	105-59-9	5 – 10 %	Eye Irrit. 2, H319
2-Phenoxyethanol	122-99-6	5 – 10 %	Acute Tox. 4, H302 Eye Irrit. 2, H319
fatty acid amides		2 – 5 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319
3-amino-4-octanol	1001354-72-8	1 – 3 %	Skin Corr. 1B, H314 Acute Tox. 4, H302
anionic surfactants		1 – 3 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319
boric acid **	10043-35-3	< 5,5 %	Repr. 1B, H360FD
3-iodo-2-propynyl-Butylcarbamate	55406-53-6	< 0,3 %	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400, (M=10) Aquatic Chronic 1, H410 (M=1)

\* The text of the H-phrases can be found in Chapter 16.

\*\*Further information can be found in Chapter 16.

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#### **4. First aid measures**

##### General notes

Remove soiled clothing immediately.

##### After inhalation

Take the person affected out into the fresh air and allow him to lie down quietly.

##### After skin contact

Wash areas of skin in contact with substance with water and soap.

##### After eye contact

In the case of eye contact, hold open the eyelids and rinse with water for a sufficiently long time and then consult a doctor immediately.

##### After swallowing

Do not induce vomiting. Rinse out mouth immediately and drink plenty of water. Get medical attention.

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#### **5. Firefighting measures**

##### Suitable extinguants

Foam, CO<sub>2</sub>, dry powder extinguant, fine spray

##### Unsuitable extinguant for safety reasons

Jet of water

##### Special hazards from the substance or the actual product, its combustion products or gases produced

CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, phosphorus oxides

##### Special protective equipment for fire-fighting

In the event of fire, use breathing apparatus suitable for any ambient conditions.

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#### **6. Accidental release measures**

##### Personal precautionary measures

Use personal protective equipment. Avoid skin and eye contact. Caution - Slippery surface through leakage of product.

##### Environmental protection measures

Do not allow product to get into surface waters, the sewage system or the soil. Inform competent authorities if product has drained into surface waters, the sewage system or into the soil.

##### Cleaning/elimination procedure

Wipe away liquid with absorbent material or remove by suction with universal binding agent and dispose of same in accordance with the regulations.

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**\*7. Handling and storage**

Handling

Notes on safe handling

Avoid unprotected skin contact, use gloves if necessary (e.g., nitrile rubber). Avoid forming of vapors and aerosols as far as possible.

Technical measures

Ensure adequate ventilation, if necessary use local fume extraction equipment.

Storage

Protect from frost and heat. Store in closed containers.

Requirements for storage rooms/conditions

Containers and filling equipment is to be handled/stored in such a manner that endangerment of water and soil from leakage of product can be excluded water.

Notes on mixed storage

Storage Class 10 – 13 (other combustible and non-combustibles materials, TRGS 510, Germany) (TRGS = Technical rules for hazardous substances)

Specific use(s)

Mixture for industrial use

Water-miscible coolant lubricant, containing mineral oil

Germany:

The DGUV-Regulation 109-003 (previously BGR/GUV-R 143) "Activities involving cooling lubricants" is to be observed.

**\*8. Exposure controls / personal protection**

Parameters to be monitored

Occupational exposure limits and / or biological limit values

Occupational Exposure Limits (OEL) Germany

CAS No.	Substance	OEL	Limit-value	Remarks*
141-43-5	2-aminoethanol	0,5 mg/m <sup>3</sup> 0,2 ml/m <sup>3</sup>	1 (I)	TRGS 900, DFG, EU, Y, Sh, 11
10043-35-3	boric acid	0,5 mg/m <sup>3</sup> E	2 (I)	TRGS 900, AGS, Y, 10
122-99-6	2-phenoxyethanol	110 mg/m <sup>3</sup> 20 ml/m <sup>3</sup>	2 (I)	TRGS 900, DFG, H, Y, 11
55406-53-6	3-iodo-2-propynyl- butylcarbamate	0,058 mg/m <sup>3</sup> 0,005 ml/m <sup>3</sup>	2 (I)	TRGS 900, DFG, Y, Sh, 11

\*Remarks from TRGS 900

H: absorbed through the skin

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- Y: a risk of fetal damage does not need to be feared when the occupational exposure limit value (OEL) and the biological limit value (BLV) are observed.
- Sh: skin sensitizing substance
- 10: The occupational exposure limit value refers to the element content of the corresponding material.
- 11: Total of vapors and aerosols.
- OEL: Workplace Exposure Limit
- AGS: Hazardous Substance Commission
- DFG: German Research Foundation
- EU: EU Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich.)
- TRGS: Technical rules for hazardous substances (Germany: Technische Regel für Gefahrstoffe)

Limitation and monitoring of exposure

Protection and Hygiene measures

Protective measures when handling working substances are listed in TRGS 500.

Wash your hands before breaks and meals. After work, use moisturizing skin cream. Keep away from food and drink. Do not put cleaning cloths saturated with product in your pockets.

Personal protection equipment

Respiratory protection

Not necessary with adequate ventilation.

Hand protection

When handling the concentrate, wear EN 374-tested protective gloves of suitable material (e.g., nitrile rubber, permeation time > 480 min).

When handling the diluted solution, use water-insoluble skin cream if the wearing of gloves is not permitted.

Observe skin protection plan.

Eye protection

Wear protective goggles with side protection if there is a risk of splashing (EN 166).

Skin protection

Wear industrial clothing.

Environmental exposure controls

See Chapter 7. No additional measures are necessary.

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## 9. Physical and chemical properties

Appearance

Form	liquid
Color	yellow
Odor	typical

Important data on health and environmental protection and safety

Basic safety-relevant parameters

pH-value (50 g/l water, 20°C, after 24 h) 9.5

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Melting range		not determined	°C
Boiling point/boiling range		> 100	°C
Flammability		> 100	°C
Ignition temperature		not determined	°C
Vapour pressure	(20°C)	< 23	hPa
Density	(20°C)	995	kg/m <sup>3</sup>
Water solubility	(20°C)	emulsifiable	g/l
Partition coefficient: n-octanol/water (log P <sub>ow</sub> )		not determined	
Viscosity, kinematic	(20°C)	approx. 170	mm <sup>2</sup> /s

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## 10. Stability and reactivity

### Conditions to avoid

Substance is stable when handled for the intended purpose under the usual conditions of use.  
Observe notes on storage.

### Materials to avoid

Powerful oxidizing agents

### Hazardous decomposition products

In the event of fire: CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, phosphorus oxides

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## \*11. Toxicological information

### General remarks

Acute toxicity, skin irritation, mucosal irritation, genotype change potential and skin-sensitization of the formulation were assessed on the basis of the data available for the individual components .  
To some extent, there are gaps in the data for individual components.

### Practical experience

Our experience so far has shown that when the basic rules of industrial protection and industrial hygiene are observed and the product is handled in accordance with the intended purpose, no detriment to health is to be expected.

Splashes in the eyes and prolonged skin contact are to be avoided.

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## 12. Ecological information

### Ecotoxicity

The product is a water-endangering liquid - do not allow product to get into surface waters, the

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sewage system or the soil.

**Mobility**

No details available

**Persistence and degradability**

No details available

**Bioaccumulation potential**

No details available

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**\*13. Disposal considerations**

**Disposal / waste (product)**

Pass to approved waste-disposal company with due observance of official local regulations.

**EU waste codes (Concentrate)**

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

**EU waste codes (Emulsion)**

12 01 09\* machining emulsions and solutions free of halogens

**Packing**

Completely empty containers. Pass to approved waste-disposal company. Drums and containers can be reconditioned. Cleaning by recycling firm.

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**14. Transport information**

Not a hazardous substance as defined by ADR/RID, IMDG, IATA/ICAO

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**15. Regulatory information**

**National regulations (Germany)**

**Water endangerment class**

WGK 2 (significant water pollutant, Classification according to AwSV – Regulation on installations for the treatment of water-endangering substances)

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**\*16. Other information**

**Text of H-phrases in section 3**

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.
H331	Toxic if inhaled.
H360FD	May damage fertility. May damage the unborn child.

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

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H372	Causes damage to organs (larynx) through prolonged or repeated exposure (inhalation)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Methods used in accordance with Article 9 of Regulation (EC) No 1272/2008 to assess the information for classification purposes:

Physical hazards: evaluation of test data (flash point)  
Health and environmental hazards: calculation method

**Other information**

Since 18.06.2010, boric acid is entered on the "Candidate List of Substances of Very High Concern" (SVHC) according to REACH, Article 59.

For further information, reference is made to the handling aid DGUV-information 030 "boric acid-/boric cooling lubricant-chemical acts, hazard assessment, protective measures"

**Updating service**

Updated chapters are marked with an \*.

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Details are based on our present knowledge. They describe our products with reference to safety requirements and are therefore not to be interpreted as promising certain properties.