

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 17 Mar 2020

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Version: 2020.1

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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

Use of the substance/mixture:

Water-miscible coolant lubricant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Curtis Systems GmbH

Geheimrat-Hummel-Platz Nr. 4

65239 Hochheim

Germany

Telephone: 0614690738-0

Telefax: 061469073845

E-mail: info@curtis-systems.de

E-mail (competent person): weimer@curtis-systems.de

1.4. Emergency telephone number

Technical department: , 06146-90738-33 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

2-methyl-2H-isothiazol-3-one; 1,2-benzisothiazol-3(2H)-one

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary Statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

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Precautionary Statements Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements Response

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Other adverse effects:

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of mineral oil, emulsifiers and additives.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68920-66-1 EC No.: 500-236-9 REACH No.: 01-2119489407-26-0000	Alcohols, C16-18 and C18-unsatd., ethoxylated Aquatic Chronic 2, Skin Irrit. 2 Warning H315-H411	5 - < 10 Wt %
CAS No.: 10043-35-3 EC No.: 234-343-4 REACH No.: 01-2119486683-25-0000	Boric acid <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Repr. 1B Danger H360FD	1 - < 5.5 Wt %
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-0006	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 Warning H319	1 - 5 Wt %
CAS No.: 2682-20-4 EC No.: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 2, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 2, Eye Dam. 1, Skin Corr. 1B, Skin Sens. 1A Danger H301-H314-H317-H318-H330-H400-H411	0.005 - < 0.5 Wt %
CAS No.: 2634-33-5 EC No.: 220-120-9	1,2-benzisothiazol-3(2H)-one Acute Tox. 4, Aquatic Acute 1, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1 Danger H302-H315-H317-H318-H400	0.005 - < 0.5 Wt %
CAS No.: 55406-53-6 EC No.: 259-627-5	3-iodo-2-propynyl butylcarbamate Acute Tox. 3, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, STOT RE 1, Skin Sens. 1 Danger H302-H317-H318-H331-H372-H410	0.025 - < 0.1 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Change contaminated, saturated clothing.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Following inhalation - Provide fresh air.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

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After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion:

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

Call a physician immediately.

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

No known symptoms to date.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Suitable extinguishing media Sand alcohol resistant foam Extinguishing powder Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Sulphur oxides.

5.3. Advice for firefighters

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

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment:

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

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

All work processes must always be designed so that the following is as low as possible: Inhalation Skin contact Eye contact

Always close containers tightly after the removal of product.

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

Wash hands before breaks and after work.

Use protective skin cream before handling the product.

When using do not eat, drink, smoke, sniff.

Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Suitable container/equipment material: Refined steel Steel Polyethylene (PE)

Requirements for storage rooms and vessels:

Keep container tightly closed. Provide for retaining containers, eg. floor pan without outflow.

Keep/Store only in original container.

Floors should be impervious, resistant to liquids and easy to clean.

Hints on storage assembly:

Materials to avoid: Oxidising agent

Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Further information on storage conditions Protect against: Heat Frost

Recommended storage temperature 15-25 °C

storage stability max. 1 year.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Boric acid CAS No.: 10043-35-3	① 0.5 mg/m ³ ② 1 mg/m ³ ⑤ (einatembare Fraktion)
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf)
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)

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Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4	① 0.2 mg/m ³ ② 0.4 mg/m ³ ⑤ (einatembare Fraktion)
DFG (DE)	2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4	① 0.2 mg/m ³ ② 0.4 mg/m ³ ⑤ einatembare Fraktion (Reaktionsgemisch, bestehend aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1))
TRGS 900 (DE)	3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6	① 0.005 ppm (0.058 mg/m ³) ② 0.01 ppm (0.106 mg/m ³) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	2,2',2''-nitriлотriethanol CAS No.: 102-71-6	① 1 mg/m ³ ② 1 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1	294 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1	2,080 mg/kg	① DNEL worker ② dermal, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	67.5 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	20 ml/kg	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1	0.002 mg/l	① PNEC aquatic, freshwater
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1	0.002 mg/l	① PNEC aquatic, marine water
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1	6.33 mg/kg	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	1 mg/l	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	0.1 ml/l	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	200 mg/l	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	4 mg/kg	① PNEC sediment, freshwater

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

8.2.2. Personal protection equipment



Eye/face protection:

Recommendation : Tightly sealed safety glasses.

Skin protection:

Hand protection: Tested protective gloves must be worn - In case of prolonged or frequently repeated skin contact:

Suitable material: Suitable material: NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,7 mm

Breakthrough time (maximum wearing time): > 480

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation aerosol or mist formation

Other protection measures:

Set out skin protection guidelines. Before starting work, apply water-resistant skincare preparations.

Avoid contact with skin, eyes and clothes.

Do not put any product-impregnated cleaning rags into your trouser pockets.

8.2.3. Environmental exposure controls

Technical measures to prevent exposure

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: yellow

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	≈ 9.3	20 °C		5%
Melting point	<i>not applicable</i>			
Freezing point	-5 °C			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	> 100 - 0 °C		DIN EN ISO 2592	
Evaporation rate	<i>not applicable</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.964 g/cm ³	15 °C	DIN EN ISO 12185	
Bulk density	<i>not applicable</i>			
Water solubility	miscible	20 °C		

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parameter		at °C	Method	Remark
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>	20 °C	DIN EN ISO 3104	
Kinematic viscosity	≈ 160 mm ² /s	20 °C	DIN EN ISO 3104	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no data available on the mixture itself.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect against: Heat Frost

10.5. Incompatible materials

Materials to avoid Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Combustion products: SECTION 5: Firefighting measures

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

There are no data available on the mixture itself.

Acute dermal toxicity:

There are no data available on the mixture itself.

Acute inhalation toxicity:

There are no data available on the mixture itself.

Skin corrosion/irritation:

There are no data available on the preparation/mixture itself.

The statement is derived from the properties of the single components.

Not an irritant.

Serious eye damage/irritation:

There are no data available on the preparation/mixture itself.

Not an irritant.

Respiratory or skin sensitisation:

May cause sensitization by skin contact.

The statement is derived from the properties of the single components.

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.

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Aspiration hazard:

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

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

There are no data available on the mixture itself.

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Assessment/classification:

Harmful to aquatic life.

12.2. Persistence and degradability

Biodegradation:

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

12 01 09 *	machining emulsions and solutions free of halogens
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company. Non-contaminated packages may be recycled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 611

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1. Indication of changes

(previous version: 2016.1)

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16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H360FD	May damage fertility. May damage the unborn child.
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.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.