

Safety Data Sheet

according to UK REACH Regulation

Alphacool Eisbaer CPU (all versions)

Revision date: 27.10.2023

Product code: 11284

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

1.1. Product identifier

Alphacool Eisbaer CPU (all versions)

Product group: Mixtures

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

Use of the substance/mixture

Refrigerants

1.3. Details of the supplier of the safety data sheet

Company name: Alphacool International GmbH
 Tochtergesellschaft
 Street: Marienberger Str. 1
 Place: D-38122 Braunschweig
 Telephone: 0531 28874-0
 e-mail: info@alphacool.com
 Contact person: Ronald Willms
 e-mail: einkauf@aquatuning.de
 Internet: www.alphacool.com
 Telefax: 0531 28874-22
 Telephone: 05207 95846-205

1.4. Emergency telephone number: +49 (0) 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

Es liegen keine zusätzlichen Angaben vor.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
107-21-1	ethanediol; ethylene glycol			10 - < 15 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
107-21-1	203-473-3	ethanediol; ethylene glycol	10 - < 15 %
	dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg		

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider
Remove contaminated, saturated clothing immediately.

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.
When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After contact with eyes

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

After ingestion

Rinse mouth thoroughly with water.
Call a physician immediately.

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

When in doubt or if symptoms are observed, get medical advice.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)
Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Gefährdete Behälter mit Wassersprühstrahl kühlen.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Personal protection equipment: see section 8

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).
Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Do not rinse down with water.

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6.4. Reference to other sections

Disposal: see section 13
Safe handling: see section 7

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

Advice on protection against fire and explosion

Ensure adequate ventilation of the storage area.

Further information on handling

Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Further information on storage conditions

7.3. Specific end use(s)

no classification

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Eye/face protection

Hand protection

Hand protection is not required.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

See section 7. No additional measures necessary.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid:
 Colour: farblos
 Odour: schwach wahrnehmbar

Test method

Changes in the physical state

Melting point/freezing point: Daten nicht verfügbar
 Boiling point or initial boiling point and boiling range: 104 °C
 Sublimation point: Daten nicht verfügbar
 Softening point: Daten nicht verfügbar
 Pour point: Daten nicht verfügbar
 Flash point: Daten nicht verfügbar

Flammability

Solid/liquid: Daten nicht verfügbar
 Gas: Daten nicht verfügbar

Explosive properties

Daten nicht verfügbar

Lower explosion limits: 3,2 vol. %
 Upper explosion limits: 43 vol. %
 Auto-ignition temperature: 410 °C

Self-ignition temperature

Solid: Daten nicht verfügbar
 Gas: Daten nicht verfügbar

Decomposition temperature: Daten nicht verfügbar

pH-Value (at 20 °C): 8

Viscosity / dynamic: Daten nicht verfügbar

Viscosity / kinematic: Daten nicht verfügbar

Flow time: Daten nicht verfügbar

Water solubility: Daten nicht verfügbar

Solubility in other solvents

Daten nicht verfügbar

Dissolution rate: Daten nicht verfügbar

Partition coefficient n-octanol/water: Daten nicht verfügbar

Dispersion stability: Daten nicht verfügbar

Vapour pressure: 0,053 hPa
 (at 20 °C)

Vapour pressure: 1,1 hPa
 (at 50 °C)

Density: Daten nicht verfügbar

Relative density: Daten nicht verfügbar

Bulk density: Daten nicht verfügbar

Relative vapour density: Daten nicht verfügbar

Particle characteristics: Daten nicht verfügbar

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9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available UN Test L.2

Oxidizing properties
Daten nicht verfügbar

Other safety characteristics

Solvent separation test: Daten nicht verfügbar

Solvent content: 25,00 %, water: 75,00 %

Solid content: flüssig

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

Es sind keine speziell zu vermeidenden Bedingungen bekannt.

10.5. Incompatible materials

Es liegen keine zusätzlichen Informationen vor.

10.6. Hazardous decomposition products

- Carbon monoxide
- Formaldehyde
- Hydrogen
- Methane

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-21-1	ethanediol; ethylene glycol				
	oral	ATE 500 mg/kg			
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS	

Further information

Das Produkt wurde nicht geprüft. Die Aussage ist von den Eigenschaften der Einzelkomponenten abgeleitet. Die Einstufung wurde nach dem Berechnungsverfahren der CLP-Verordnung (EG) Nr. 1272/2008 vorgenommen.

SECTION 12: Ecological information

12.1. Toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No

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1272/2008 [CLP], Annex I.

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol; ethylene glycol	-1,36

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 UK REACH.

There are no data available on the mixture itself.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Nicht in die Kanalisation oder Gewässer gelangen lassen.

Contaminated packaging

Wasser.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 25 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 9.

Relevant H and EUH statements (number and full text)H302 Harmful if swallowed.
EUH210 Safety data sheet available on request.**Further 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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)