

# Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Revision 31.05.2022 (GB) Version 1.5

KÜHLERSCHUTZ D-48 EXTRA

836xxx



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

### 1.1. Product identifier

Name of product

KÜHLERSCHUTZ D-48 EXTRA  
Art-Nr 836xxx  
UFI: 6S92-90SX-2007-U99A

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

Identified uses

Product categories [PC]

PC4 - Anti-freeze and de-icing products

### 1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

EUROLUB GmbH  
Freisingerstraße 25-27, D-85386 Eching b. München  
Phone +49 8165 9591-0, Fax +49 8165 9591-210  
E-Mail info@eurolub.com  
Internet www.eurolub.com

### 1.4. Emergency telephone number

Emergency advice

Phone +49 8165 9591-0  
This number is only available at office times.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Acute Tox. 4	H302	
STOT RE 2	H373	

### Hazard statements for health hazards

H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

### 2.2. Label elements

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



GHS07



GHS08

Signal word

Warning

### Hazard statements for health hazards

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#### Precautionary Statements

##### Prevention

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

##### Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P330 Rinse mouth.

##### Disposal

- P501 Dispose of contents / container in accordance with local regulations.

#### Hazardous ingredients for labelling

ethanediol

#### 2.3. Other hazards

##### Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

## ! SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
19766-89-3	243-283-8	2-ethylhexanoic acid	2 < 3	Repr. 2, H361d
107-21-1	203-473-3	ethanediol	> 90	Acute Tox. 4, H302 / STOT RE 2, H373
12045-78-2	601-707-2	Dipotassiumtetraborate-Tetrahydrate	0,3 - 1	Rep. 2, H361d

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Ensure of fresh air.

#### In case of skin contact

In case of contact with skin wash off with soap and water.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

#### In case of ingestion

If swallowed seek medical advice immediately and show the doctor packing or label.

If swallowed give water to drink.

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

#### Physician's information / possible symptoms

No information available.

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### Physician's information / possible dangers

No information available.

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

#### Treatment (Advice to doctor)

No information available.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam

Dry powder

Water spray jet

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

In case of fire formation of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

#### Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Use personal protective clothing.

#### For emergency responders

Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Collect contaminated water / firefighting water separately.

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

Take up with absorbent material (e.g. general-purpose binder).

#### Additional Information

Informations for safe handling see chapter 7.

### 6.4. Reference to other sections

No information available.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures necessary if used correctly.

#### General protective measures

Avoid contact with eyes and skin

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## Hygiene measures

At work do not eat, drink and smoke.

## Advice on protection against fire and explosion

Take precautionary measures against static discharges.

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

### Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor.

Keep only in original container.

### Advice on storage compatibility

Store at cool and aired place and at distance to acids and alkalies.

### Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Storage group 10

## 7.3. Specific end use(s)

### Recommendation(s) for intended use

See section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
107-21-1	ethanediol	8 hours	52	20	skin
		Short-term	104	40	

### 8.2. Exposure controls

#### Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

#### Hand protection

Angaben zum Handschuhmaterial: Nitrilkautschuk, 0,4mm Schichtdicke. Permeationszeit nach EN 374 > 480 Minuten.

#### Eye protection

safety goggles with side protection

#### Other protection measures

Körperschutzmittel in Abhängigkeit von Tätigkeit und möglicher Einwirkung auswählen, z.B. Schürze, Schutzstiefel, Chemikalienschutzanzug.

## SECTION 9: Physical and chemical properties

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

#### Appearance

liquid

#### Colour

blue

#### Odour

characteristic

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	8				

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	Value	Temperature	at	Method	Remark
<b>boiling point</b>	> 165 °C				
<b>melting point</b>	< -18 °C				
<b>Flash point</b>	> 124 °C				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	420 °C				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	0,2 hPa	20 °C			
<b>Relative density</b>	1,122 g/cm <sup>3</sup>				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	not determined				
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity kinematic</b>	20 - 30 mm <sup>2</sup> /s	20 °C			
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	No information available.				
<b>9.2. Other information</b>	No information available.				

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

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### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

#### Substances to avoid

No hazardous reactions known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	1600 mg/kg	rat (male)		
<b>LD50 acute dermal</b>	No data available			
<b>LC50 acute inhalation</b>	No data available			
<b>Skin irritation</b>	non-irritant	rabbit		
<b>Eye irritation</b>		No information available.		
<b>Skin sensitization</b>	non-sensitizing	Guinea pig		

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Mutagenicity</b>	No information available.			
<b>Reproduction-Toxicity</b>	No information available.			
<b>Carcinogenicity</b>	No information available.			

#### Specific target organ toxicity (repeated exposure)

May cause damage to kidneys through prolonged or repeated exposure in contact with skin.

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 > 100 mg/l (96 h)	Leuciscus idus		
<b>Daphnia</b>	EC50 > 100 g/m3 (48 h)	Daphnia magna		

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	Value	Species	Method	Validation
<b>Algae</b>	EC50 > 100 g/m3 (72 h)			
<b>Bacteria</b>	No information available.			
<b>12.2. Persistence and degradability</b>				
	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	> 70 % (28 d)		OECD 301 A	readily degradable
<b>12.3. Bioaccumulative potential</b>				
No information available.				
<b>12.4. Mobility in soil</b>				
No information available.				
<b>12.5. Results of PBT and vPvB assessment</b>				
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.				
<b>12.6. Other adverse effects</b>				
No data available				

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste code No.**

16 01 14\*

**Name of waste**

antifreeze fluids containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

### Recommendations for the product

Remove in accordance with local official regulations.

### Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	-	-	-
<b>14.2. UN proper shipping name</b>		-	-
<b>14.3. Transport hazard class(es)</b>		-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-
<b>14.6. Special precautions for user</b>			
No information available.			
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			
No information available.			
<b>Land and inland navigation transport ADR/RID</b>			

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No dangerous goods as defined by these transport regulations.

#### Marine transport IMDG

No dangerous goods as defined by these transport regulations.

#### Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

## SECTION 15: Regulatory information

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

#### Application restrictions

Anhang XVII der Verordnung (EG) Nr. 1907/2006: Nummer auf Liste 3,30

#### VOC standard

VOC content =0 %  
VOC value 0 g/L

#### National regulations

Water hazard class 1

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

#### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

#### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.4

H302 Harmful if swallowed.

H361d Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).