

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Eilfix® KHR Kühlhausreiniger

Revision date: 28.01.2020

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

#### 1.1. Product identifier

Eilfix® KHR Kühlhausreiniger

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

##### Use of the substance/mixture

Cleaning agent.

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

Company name:	Becker Chemie GmbH	
Street:	Westring 87-89	
Place:	D-33818 Leopoldshöhe	
Telephone:	+49(0)5202-9923-0	Telefax: +49(0)5202-9923-12
e-mail:	info@becker-chemie.de	
Contact person:	Dr. Bogner	Telephone: +49(0)5202-9923-0
e-mail:	info@becker-chemie.de	
Internet:	www.becker-chemie.de	
Responsible Department:	Department product safety tel.: +49(0)5202-9923-0	

#### 1.4. Emergency telephone number:

+49(0)160-92250872

#### Further Information

Restricted to professional users. Safety data sheet available for professional user on request. Notice the directions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

##### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
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	smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves and eye/face protection.
P332+P313	If skin irritation occurs: Get medical advice/attention.
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.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			15 - 30 %
	203-905-0	603-014-00-0		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
67-63-0	2-Propanol			5 - 15 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Following inhalation: Move victim to fresh air. Consult physician.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

In case of skin irritation, seek medical treatment.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Consult physician.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet / alcohol resistant foam. / Carbon dioxide (CO<sub>2</sub>) / Dry extinguishing powder / Extinguishing powder

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

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### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

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

### Additional information

Contaminated fire-fighting water must not get into the sewerage network.

## SECTION 6: Accidental release measures

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

Put on protection equipment and keep away unprotected persons.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Clean contaminated articles and floor according to the environmental legislation.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

It is recommended to design all work processes always so that the following is excluded: inhalation. skin contact. Eye contact.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

When using do not eat, drink or smoke.

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

#### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

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### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

### 8.2. Exposure controls

#### Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.  
Wash hands before breaks and after work.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn:

NBR (Nitrile rubber). Butyl rubber.

German Industry Norms (DIN) / European Norms (EN): EN ISO 374

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

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

Thorough skin-cleansing after handling the product.

After cleaning apply high-fat content skin care cream.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protective equipment: Full-/Half-/Quarter-Masks (DIN EN 136/140).

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

#### Environmental exposure controls

Refer to chapter 7 No further action is necessary.

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: clear  
Odour: like: Alcohol

pH-Value (at 20 °C): 9

#### Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 171 °C

Flash point: 41 °C

#### Explosive properties

not Explosive.

Lower explosion limits: 54 g/m<sup>3</sup>

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Upper explosion limits: 520 g/m<sup>3</sup>  
 Density: 0,98 g/cm<sup>3</sup>  
 Water solubility: complete miscible

### SECTION 10: Stability and reactivity

#### 10.5. Incompatible materials

Violent reaction with:  
 Oxidizing agents.  
 Alkalis (alkalis).

#### 10.6. Hazardous decomposition products

Gas/vapours, harmful.  
 Carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	LD50 mg/kg	470	Rat	
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
67-63-0	2-Propanol				
	oral	LD50 mg/kg	4570	rat	MSDS
	dermal	LD50 mg/kg	> 2000- 13400	rabbit	MSDS
	inhalation (4 h) vapour	LC50	30 mg/l	rat	MSDS

##### Irritation and corrosivity

Irritant effect on the skin: irritant. Irritant effect on the eye: Irritant.

##### Additional information on tests

Data apply to the main component.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Individual components can be eliminated easily from water.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia	
	Crustacea toxicity	NOEC	100 mg/l	21 d		
67-63-0	2-Propanol					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Leuciscus idus	48 h
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Scenedesmus subspicatus	MSDS
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	MSDS

### 12.2. Persistence and degradability

The Tenside used in the mixture correspond to the Detergenzienverordnung (no. 648/2004) and are degradable completely aerobically. The product doesn't contribute to the AOX value of the water.

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81 (25°C)
67-63-0	2-Propanol	0,05

### Further information

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

#### Contaminated packaging

Contaminated packaging: Completely emptied packings can be re-cycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 1993

#### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol)

#### 14.3. Transport hazard class(es):

3

#### 14.4. Packing group:

III

Hazard label:

3



Classification code:

F1

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Special Provisions:	274 601 640E
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1993
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Special Provisions:	223, 274, 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E
Segregation group:	-

### SECTION 15: Regulatory information

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

##### National regulatory information

Water hazard class (D):	1 - slightly hazardous to water
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### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 14,15.

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

#### Further Information

The processing and application notes are on the technical leaflets to the products. The details are based on today's stand of our knowledge, they don't represent any assurance of product qualities, however, and don't justify any contractual facts of the case.

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