



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

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revision

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**FM COOLANT**  
A01-07548-CP1000809

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

### 1.1. Product identifier

**Name of product**

FM COOLANT

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Antifreezer

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

**Manufacturer/distributor**

FUCHS LUBRITECH GMBH  
Werner-Heisenberg-Straße 1, D-67661 Kaiserslautern/Germany  
Phone +49 (0) 6301 3206 - 0, Fax +49 (0) 6301 3206 - 940  
E-Mail reach@fuchs-lubritech.de  
Internet www.fuchs-lubritech.com

**Advice**

Product Safety Management  
Phone +49 (0) 6301 3206 - 0  
Fax +49 (0) 6301 3206 - 940  
E-mail (competent person):  
reach@fuchs-lubritech.de

US Distributor

Fuchs Lubricants Co.

17050 Lathrop Avenue

Harvey, IL 60426

(708) 333-8900

(800) 255-3924 24 hrs Emergency

### 1.4. Emergency telephone number

**Emergency advice**

+49 (0)171 / 4632154

Phone 06301/3206-808

This number is only available at office times.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to 67/548/EEC or 1999/45/EC**

#### Additional hints

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

### 2.2. Label elements

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

#### Additional information

#### Remark

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008

### 2.3. Other hazards

**Information pertaining to special dangers for human and environment**

none at appropriate handling and storage

## SECTION 3: Composition/ information on ingredients

### 3.2. Mixtures

#### Description

Blend of monopropylene glycol, water and additives

#### Additional advice

none at appropriate handling and storage

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately, don't leave to dry.

#### In case of inhalation

Call doctor in case of indisposition

Ensure of fresh air.

(may be relevant for vapours of superheated product)

**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 water.

**In case of ingestion**

Do not induce vomiting.  
Call for a doctor immediately.

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

**Physician's information / possible symptoms**

No symptoms known so far.

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

**Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

Fire gas of organic material has to be classed invariably as respiratory poison.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Wear suitable personal protective equipment for fire extinguishing measures.

**Additional information**

Cool endangered containers with water spray jet.

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Keep away sources of ignition.  
Avoid contact with skin and eyes  
High risk of slipping due to leakage/spillage of product.

**For emergency responders**

no special dangers known

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the subsoil/soil.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).  
After taking up the material dispose according to regulation.

**Additional Information**

Keine gefährlichen Inhaltsstoffe bzw. unterhalb der Berücksichtigungsgrenze gemäß RL 67/548 EWG

**6.4. Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8  
Emergency telephone number: see section 1

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

#### Hygiene measures

Cloths contaminated with product should not be kept in trouser pockets.

Follow general rules of industrial hygiene for safe handling of chemical products

Wash hands before breaks and after work.

Use barrier skin cream.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

The product is combustible.

Take precautionary measures against static discharges.

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

#### Requirements for storage rooms and vessels

Prevent penetration into the ground.

Use steel containers.

Use polyethylene containers.

#### Advice on storage compatibility

Do not store together with oxidising and self-inflammable materials.

#### Further information on storage conditions

Keep container tightly closed, store at cool and aired place, open and handle carefully.

Storage temperature may not exceed 40°C (=104°F).

Store in a dry place.

Do not keep at temperatures below 0°C.

Recommended storage temperature: room temperature.

#### Information on storage stability

See technical information about storage of lubricants

**Storage group** 10

**Fire class** B

### 7.3. Specific end use(s)

No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice

This product as such does not contain any relevant ingredients with to be observed limited values

As basis for this information served the valid references.

### 8.2. Exposure controls

#### Respiratory protection

Not required at determined application

#### Hand protection

As the product is a preparation of several substances, the actual resistance of the materials used for gloves cannot be scientifically calculated; it is therefore mandatory to check this before using the product.

The break through time depends on the mechanical stress imposed and must therefore be checked individually.

PVC gloves

nitrile gloves

Neoprene gloves

#### Eye protection

tightly fitting goggles

#### Other protection measures

Usual working clothes for chemical industries



#### Appropriate engineering controls

Do not inhale aerosols caused by spraying application  
Closed holders to avoid evaporation loss  
Care for good room ventilation, exhaust system at workshop place if necessary

## SECTION 9: Physical and chemical properties

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

#### Appearance

liquid

#### Colour

colourless

#### Odour

characteristic

#### Odour threshold

not determined

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	8,5	20 °C	50 Vol-%		
<b>starts to boil</b>	> 180 °C				
<b>pourpoint</b>	< -60 °C				50% in Wasser
<b>Flash point</b>	112 °C			open cup	
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	2 Vol-%				
<b>Upper explosion limit</b>	12 Vol-%				
<b>Vapour pressure</b>	10 Pa	20 °C			
<b>Relative density</b>	1,051 - 1,061 g/cm3	15 °C		DIN 51757	
<b>Vapour density</b>	ca. 2,5	20 °C			
<b>Solubility in water</b>					miscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	< 1				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity kinematic</b>	47 mm2/s	20 °C			

#### Oxidising properties

No information available.

#### Explosive properties

In and after use danger of production of inflammable compounds  
The product as such is not explosive.

### 9.2. Other information

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 information available.

### 10.4. Conditions to avoid

Heating, unshielded flame, ignition source, electrostatic charge

### 10.5. Incompatible materials

#### Materials to avoid

Reactions with strong oxidising agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### Thermal decomposition

Remark No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>				not determined
<b>Irritability skin</b>				frequent and/or persistent contact may cause skin irritation
<b>Irritability eye</b>	may have irritating effect			if splash reaches eye
<b>Skin sensitization</b>	No sensitizing effect known			

#### Experiences made from practice

Frequent contact specially if dried out may cause skin and eye irritations.

#### Additional information

Toxicol dates refer to waterfree substance.

The product was classified on the basis of the calculation procedure of the directive 67/548/EEC (conventional method).

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>				not determined

### 12.2. Persistence and degradability

#### Biological

#### degradability

Information on biodegradation processes is available.

#### Biological

#### eliminability

not determined

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil



No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

##### Behaviour in sewage plant

Product gets duly not into waste water before it is not treated according to the local regulations.

##### General regulation

Do not allow uncontrolled leakage of product into the environment.  
Product is not allowed to be discharged into aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Recommendations for the product

Disposal according to local authority prescriptions

##### Recommendations for packaging

Untampered packaging may be taken for recycling.

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

##### General information

Ultimately responsible for correct classification is the waste producer, as the EWC names different codes for different origins of same waste

### SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

#### 14.6. Special precautions for user

No information available.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

##### Land and inland navigation transport ADR/RID

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 hazardous goods as defined by prescriptions

### SECTION 15: Regulatory information

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

##### VOC standard

VOC content ca.71 %



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**National regulations**

**Water hazard class**

1

Einstufung nach VwVwS 1999

**15.2. Chemical Safety Assessment**

No information available.

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**! SECTION 16: Other information**

**Training advice**

Use information in this MSDS

**Recommended uses and restrictions**

usage only according to instructions for use and observance of warning notes

National and local regulations concerning chemicals shall be observed.

**Further information**

Substantial changes to the former version are marked by "!" on the left margin of the paper.

All the raw materials in this product are listed in TSCA.

All the raw materials in this product are listed in DSL.

All the raw materials in this product are listed in AICS.

All the raw materials in this product are listed in NZIoC (New Zealand).

Refer to product information paper.

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: 1.6

**Sources of key data used**

Material Safety Data Sheets of raw materials