

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: CRP PENTOFROST SF

Other means of identification: For further information, please refer to section 9 of the SDS.

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

Identified uses: Antifreeze/coolant Containers >=20l for commercial use only

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS GERMANY GmbH

Friesenheimer Str. 19

68169 Mannheim

Telephone: +49 621 3701-0 (ZENTRALE)

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Contact for request of safety data sheets

E-mail: Automotive lubricants CS.Services-FLG@fuchs.com

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Telephone: +49 621 3701-0 (ZENTRALE)

Informing department for safety data sheets

E-mail: produktsicherheit-FLG@fuchs.com

1.4 US contact telephone : 708-333-8900 **Emergency telephone:** 800-255-3924

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

Health Hazards

Acute toxicity (Oral) Category 4

Toxic to reproduction Category 1B

Specific Target Organ Toxicity - Repeated Category 2

Exposure

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Product name: CRP PENTOFROST SF

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements



Signal Words: Danger

Hazard Statement(s): H302: Harmful if swallowed.

H360D: May damage the unborn child.

H373: May cause damage to organs through prolonged or repeated

exposure.

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P281: Use personal protective equipment as required.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330: Rinse mouth.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the

environment without control.

Unknown toxicity:Due to information available product does not contain any ingredients of

unknown toxicity.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

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General information: Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	Notes
Ethanediol	107-21-1	50.00 - <100.00%	
Carboxylic acid, middle chain	149-57-5	1.00 - <5.00%	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Identifier	Classification	
Ethanediol	107-21-1	Acute Tox. 4;H302, STOT RE 2;H373	
Carboxylic acid, middle chain	149-57-5	Repr. 1B;H360D	

4 FIRST AID MEASURES

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel

unwell.

4.2 Most important symptoms and effects, both acute and

delayed:

Symptoms of poisoning may even occur after several hours; therefore

medical observation for at least 48 hours after the accident.

4.3 Indication of any immediate medical attention and special

treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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5.3 Advice for firefighters

Special fire-fighting procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not

enter drains.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions. protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal

binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on

disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Prevent formation of aerosols. Observe good industrial hygiene practices.

Provide adequate ventilation.

7.2 Conditions for safe storage,

including any incompatibilities: Local regulations concerning handling and storage of waterpolluting

products have to be followed.

7.3 Specific end use(s): Not applicable

EXPOSURE CONTROLS / PERSONAL PROTECTION

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8.1.Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Ethanediol	Ceiling	50 ppm 125 mg/m	3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Ethanediol - Aerosol.	Ceiling	100 mg/m	3 US. ACGIH Threshold Limit Values, as amended (02 2012)
Carboxylic acid, middle chain - Inhalable fraction and vapor.	TWA	5 mg/m	3 US. ACGIH Threshold Limit Values, as amended (02 2012)

8.2. Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective

equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.

be adhered to initialiding the chemicals of the mineral on products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

skin and eyes. Goggles/face shield are recommended. If risk of splashing,

wear safety goggles or face shield.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0.38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing

vapour/ aerosol.

Thermal hazards: No data available.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: Violet

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: 7.5 - 8.5 (333 g/l)

Freezing point: $-20 \,^{\circ}\text{C}$ Boiling Point: $> 175 \,^{\circ}\text{C}$ Flash Point: $> 110 \,^{\circ}\text{C}$

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

Relative vapor density:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

1.11 - 1.13 g/cm3 (20 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Auto-ignition temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 20 - 30 mm2/s (20 °C)

Explosive properties:Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

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11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: Harmful if swallowed.

Skin Contact: No data available.

Eye contact: No data available.

Acute toxicity

Oral

Product: ATEmix: 535 mg/kg ATEmix: 1,713.48 mg/kg

Specified substance(s)

Ethanediol LD 50 (Human): 1,600 mg/kg

Dermal

Product:

ATEmix: 3,748.23 mg/kg

Specified substance(s)

Ethanediol LD 50 (Mouse): 3,500 mg/kg

Inhalation Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product:

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

Specified substance(s)

Ethanediol (Rabbit, 20 h): Not irritating

Serious Eye Damage/Eye Irritation:

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

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Ethanediol No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

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

Carcinogenicity

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

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IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Reproductive toxicity

Product: Based on available data, the classification criteria are met.

Specific Target Organ Toxicity - Single Exposure

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

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are met.

Specified substance(s)

Ethanediol Kidney

May cause damage to kidneys through prolonged or repeated exposure if

swallowed

Aspiration Hazard

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

12 ECOLOGICAL INFORMATION

General information: Not applicable

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

Ethanediol LC 50 (Fish, 96 h): 72,860 mg/l

Aquatic Invertebrates
Specified substance(s)

Ethanediol EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

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

Fish

Specified substance(s)

Ethanediol NOEC (Fish, 7 d): 15,380 mg/l

Aquatic Invertebrates Specified substance(s)

Ethanediol NOEC (Water Flea, 7 d): 8,590 mg/l

12.2 Persistence and Degradability

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Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Ethanediol > 90 % (10 d, OECD 301A) The product is easily biodegradable.

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

13 Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

14 TRANSPORT INFORMATION

DOT

Not Regulated.

TDG

Not Regulated.

IMDG - International Maritime Dangerous Goods Code

Not Regulated.

IATA

Not Regulated.

15 REGULATORY INFORMATION

US Federal Regulations

US State Regulations

US. California Proposition 65

WARNING! This product can expose you to chemicals including

ETHYLENE GLYCOL (INGESTED) which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

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Inventory Status

TSCA	On or in compliance with the inventory
DSL	On or in compliance with the inventory

16 OTHER INFORMATION

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H360D May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

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Disclaimer: The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no

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