

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: CRP PENTOSIN CHF 11S

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: Hydraulic fluid Containers ≥ 20 l 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)
Fax:	+49 621 3701-570

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

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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 (Inhalation - dust and mist)	Category 4
Toxic to reproduction	Category 2
Aspiration Hazard	Category 1

Product name: CRP PENTOSIN CHF 11S

Hazard summary

Physical Hazards: No data available.

Health Hazards

Ingestion: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

2.2 Label Elements



Signal Words: Danger

Hazard Statement(s): H332: Harmful if inhaled.
H361: Suspected of damaging fertility or the unborn child.
H304: May be fatal if swallowed and enters airways.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P271: Use only outdoors or in a well-ventilated area.
P281: Use personal protective equipment as required.

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331: Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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.

Product name: CRP PENTOSIN CHF 11S

3 COMPOSITION / INFORMATION ON INGREDIENTS
3.2 Mixtures
General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscous	68649-11-6	50.00 - <100.00%	
Base oil, low viscous	72623-86-0	10.00 - <20.00%	
Base oil, low viscous	8042-47-5	1.00 - <5.00%	
Amine aromatic , alkylated	68411-46-1	0.10 - <1.00%	
Alkyl amine	61791-44-4	0.10 - <0.25%	

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscous	68649-11-6	Asp. Tox. 1;H304, Acute Tox. 4;H332
Base oil, low viscous	72623-86-0	Asp. Tox. 1;H304
Base oil, low viscous	8042-47-5	Asp. Tox. 1;H304
Amine aromatic , alkylated	68411-46-1	Repr. 2;H361f, Aquatic Chronic 3;H412
Alkyl amine	61791-44-4	Skin Corr. 1C;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

4 FIRST AID MEASURES
General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures
Inhalation: Move to fresh air. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

Skin Contact: Wash with soap and water.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

Product name: CRP PENTOSIN CHF 11S

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| 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. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. |
| 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

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| Suitable extinguishing media: | CO ₂ , 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. |

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| 5.2 Special hazards arising from the substance or mixture: | During fire, gases hazardous to health may be formed. |
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5.3 Advice for firefighters

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| 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 in accordance 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

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| 6.1 Personal precautions, protective equipment and emergency procedures: | Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. 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.

Product name: CRP PENTOSIN CHF 11S

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Minimize dust generation and accumulation. 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:** Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** Not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION
8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2014)
Base oil, low viscous	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous	TWA	400 ppm 1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Inhalable fraction.	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 in handling the chemicals or the mineral oil products.

Product name: CRP PENTOSIN CHF 11S

Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
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:	Respirator type: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	Green
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	substance/mixture is non-soluble (in water)
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	156 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)—:	Not applicable for mixtures
Flammability Limit - Lower (%)—:	Not applicable for mixtures

Product name: CRP PENTOSIN CHF 11S

Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0.82 g/cm ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	18.7 mm ² /s (40 °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.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	Harmful if inhaled.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Product name: CRP PENTOSIN CHF 11S

Specified substance(s)

Hydrocarbons, low viscous	LD 50 (Rat): > 5,001 mg/kg
Base oil, low viscous	LD 50 (Rat): > 5,001 mg/kg (OECD 401)
Base oil, low viscous	LD 50 (Rat): > 5,001 mg/kg (OECD 401)
Amine aromatic , alkylated	LD 50 (Rat): > 5,000 mg/kg (OECD 401)
Alkyl amine	LD 50 (Rat): 1,350 mg/kg (OECD 401)

Dermal**Product:**

Not classified for acute toxicity based on available data.

Inhalation**Product:**

ATEmix: 1.97 mg/l
Dust and mist

Specified substance(s)

Hydrocarbons, low viscous	LC 50 (Rat, 4 h): 1.17 mg/l Dust and mist
Base oil, low viscous	LC 50 (Rat, 4 h): > 5.53 mg/l Dust and mist

Skin Corrosion/Irritation:**Product:**

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

Specified substance(s)

Base oil, low viscous	OECD 404 (Rabbit): Not irritant.
Alkyl amine	OECD 404 (Rabbit, 14 d): Causes severe skin burns.

Serious Eye Damage/Eye Irritation:**Product:**

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

Specified substance(s)

Base oil, low viscous	OECD 405 (Rabbit): Not irritant.
Amine aromatic , alkylated	OECD 405 (Rabbit): Not irritant.

Product name: CRP PENTOSIN CHF 11S

Respiratory or Skin Sensitization:

Product: Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.

Specified substance(s)

Base oil, low viscous No sensitizing effect (guinea pig); OECD 406

Amine aromatic ,
alkylated No sensitizing effect (guinea pig); OECD 406

Alkyl amine 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.

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

OSHA: 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 not met.

Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

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)**

Hydrocarbons, low
viscous LC 50 (Fish, 96 h): > 1,000 mg/l

Product name: CRP PENTOSIN CHF 11S

Base oil, low viscous LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Base oil, low viscous LC 50 (Fish, 96 h): > 1,001 mg/l (OECD 203)

Amine aromatic ,
alkylated LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Alkyl amine LC 50 (Fish, 96 h): 0.1 mg/l (OECD 203)

**Aquatic Invertebrates
Specified substance(s)**

Hydrocarbons, low
viscous EC 50 (Water Flea, 48 h): > 1,000 mg/l

Base oil, low viscous EC 50 (Water Flea, 48 h): > 101 mg/l (OECD 202)

Amine aromatic ,
alkylated EC 50 (Daphnia magna): 51 mg/l (OECD 202)

Alkyl amine EC 50 (Water Flea, 48 h): 0.043 mg/l (OECD 202)

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

**Aquatic Invertebrates
Specified substance(s)**

Hydrocarbons, low
viscous NOEC (Water Flea, 21 d): 125 mg/l

Base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)

Alkyl amine EC 10 (Water Flea, 21 d): 0.0107 mg/l (OECD 211)

**Toxicity to Aquatic Plants
Specified substance(s)**

Hydrocarbons, low
viscous EC 50 (Alga, 72 h): > 1,000 mg/l

Base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l (OECD 201)

Base oil, low viscous EC 50 (Alga, 72 h): > 1,001 mg/l

Amine aromatic ,
alkylated EC 50 (72 h): > 100 mg/l (OECD 201)

Alkyl amine EC 50 (Alga, 72 h): 0.0538 mg/l (OECD 201)
NOEC (Alga, 72 h): 0.0156 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Product name: CRP PENTOSIN CHF 11S

Specified substance(s)Amine aromatic ,
alkylated

Not readily degradable.

Alkyl amine

63 % (28 d, OECD 301D) Readily 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.

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

NAPHTHALENE	which is [are] known to the State of California to cause cancer.
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For more information go to www.P65Warnings.ca.gov.**Inventory Status**

TSCA	On or in compliance with the inventory
DSL	On or in compliance with the inventory
NDSL	Not in compliance with the inventory.

Product name: CRP PENTOSIN CHF 11S

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.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision Date: 06.02.2023

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 signature.