

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: CRP PENTOSIN FFL-4

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: Lubricant

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

+49 621 3701-0 (ZENTRALE) Telephone:

+49 621 3701-570 Fax:

Contact for request of safety data sheets

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

Industrial lubricants

+49 621 3701-0 (ZENTRALE) Telephone:

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

Toxic to reproduction Category 2

Environmental Hazards

Chronic hazards to the aquatic environment Category 3

Hazard summary

Physical Hazards: No data available.

Issue Date: 26.04.2016 Revision Date: 06.03.2023

Version: 2.0 Print date: 23.11.2023 SDS_US - 000000000601409837

1/13



Product name: CRP PENTOSIN FFL-4

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H361f: Suspected of damaging fertility.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

Response: 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

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscous	68037-01-4	20.00 - <50.00%	
base oil, low viscous	72623-87-1	20.00 - <50.00%	
Base oil paraffinic	64742-54-7	1.00 - <5.00%	
Amine aromatic , alkylated	68411-46-1	0.10 - <1.00%	
Alkyl amine	61791-44-4	0.10 - <0.25%	
prim. alkanolamine ether	218141-16-3	0.00 - <0.10%	
hydroxyethyl-alkylamine	71786-60-2	0.01 - <0.10%	

Issue Date: 26.04.2016 Revision Date: 06.03.2023

Print date: 23.11.2023 SDS_US - 00000000601409837



Product name: CRP PENTOSIN FFL-4

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.

Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscous	68037-01-4	Asp. Tox. 1;H304
base oil, low viscous	72623-87-1	Asp. Tox. 1;H304
Base oil paraffinic	64742-54-7	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
prim. alkanolamine ether	218141-16-3	Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 100; M-Factor (aquatic chronic): 1
hydroxyethyl-alkylamine	71786-60-2	Acute Tox. 4;H302, Skin Corr. 1C;H314, Eye Dam. 1;H318, Repr. 2;H361d, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10

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: 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 thoroughly.

4.2 Most important symptoms and effects, both acute and delayed:

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special

Get medical attention if symptoms occur.

treatment needed

SECTION 5: Firefighting measures

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837

vPvB: very persistent and very bioaccumulative substance.



Product name: CRP PENTOSIN FFL-4

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.

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:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. 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.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. 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. Do not heat up to temperatures close to the

flash point.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023 SDS_US - 00000000601409837



Product name: CRP PENTOSIN FFL-4

7.3 Specific end use(s): Not applicable

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.Exposure Limits

8

Chemical name	Туре	Exposure Limit Values	Source
base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
base oil, low viscous	PEL	500 ppm 2,000 mg/m3	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/m3	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/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
base oil, low viscous - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Base oil paraffinic	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil paraffinic - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil paraffinic	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil paraffinic - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)

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.

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.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837



Product name: CRP PENTOSIN FFL-4

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Color: Brown

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: 220 °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
Vapor pressure: Not applicable for mixtures
Relative vapor density: Not applicable for mixtures

Density: 0.84 g/cm3 (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

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

Print date: 23.11.2023 SDS US - 00000000601409837



Product name: CRP PENTOSIN FFL-4

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 34.7 mm2/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: No data available.

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.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837



Product name: CRP PENTOSIN FFL-4

Specified substance(s)

Hydrocarbons, low

viscous

LD 50 (Rat): > 5,000 mg/kg

base oil, low viscous LD 50 (Rat): > 5,001 mg/kg (OECD 401)

Base oil paraffinic LD 50 (Rat): > 5,000 mg/kg

Amine aromatic,

alkylated

LD 50 (Rat): > 5,000 mg/kg (OECD 401)

Alkyl amine LD 50 (Rat): 1,350 mg/kg (OECD 401)

hydroxyethyl-alkylamine LD 50 (Rat): 1,500 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil paraffinic LD 50 (Rabbit): > 5,000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

LC 50 (Rat, 4 h): > 5 mg/l

viscous

Dust and mist

Base oil paraffinic LC 50 (Rat, 4 h): > 5.53 mg/l

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)

Base oil paraffinic OECD 404 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 paraffinic OECD 405 Not irritant.

Amine aromatic,

alkylated

OECD 405 (Rabbit): Not irritant.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837



Product name: CRP PENTOSIN FFL-4

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)

Amine aromatic,

alkylated

No sensitizing effect (guinea pig); OECD 406

Alkyl amine No sensitizing effect (guinea pig); OECD 406

hydroxyethyl-alkylamine 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

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 not met.

Aspiration Hazard

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

Specified substance(s)

Base oil paraffinic May be fatal if swallowed and enters airways.

12 ECOLOGICAL INFORMATION

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837



Product name: CRP PENTOSIN FFL-4

General information: Not applicable

12.1 Toxicity

Acute toxicity

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

available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low

viscous

LC 50 (Fish, 96 h): > 750 mg/l

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

Base oil paraffinic LC 50 (Fish, 96 h): > 100 mg/l

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)

LC 50 (Fish, 96 h): 0.1 mg/l (OECD 203) hydroxyethyl-alkylamine

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low

viscous

EC 50 (Water Flea, 48 h): 190 mg/l

Base oil paraffinic EC 50 (Water Flea, 48 h): > 100 mg/l

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)

hydroxyethyl-alkylamine EC 50 (Water Flea, 48 h): 0.48 mg/l (OECD 202)

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

Specified substance(s)

base oil, low viscous NOEC (Fish, 14 d): > 1,000 mg/l

Aquatic Invertebrates Specified substance(s)

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

Base oil paraffinic NOEC (Daphnia magna, 21 d): 10 mg/l (OECD 211)

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

hydroxyethyl-alkylamine EC 10 (Water Flea, 21 d): 0.279 mg/l (OECD 211)

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023 SDS_US - 00000000601409837



Product name: CRP PENTOSIN FFL-4

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 paraffinic EC 50 (Algae, 72 h): > 100 mg/l (OECD 201)

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

hydroxyethyl-alkylamine EC 50 (Alga, 72 h): 0.107 mg/l (OECD 201)

EC 10 (Alga, 72 h): 0.0092 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Amine aromatic,

alkylated

Not readily degradable.

Alkyl amine 63 % (28 d, OECD 301D) Readily biodegradable

hydroxyethyl-alkylamine > 60 % (28 d, OECD 301B) 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: Harmful to aquatic life with long lasting effects.

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.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

Print date: 23.11.2023 SDS_US - 00000000601409837



Product name: CRP PENTOSIN FFL-4

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

ALENE which is [are] known to the State of California to cause cand	cancer.	incer	r.
---	---------	-------	----

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

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.
H361d	Suspected of damaging 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: 06.03.2023

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS_US - 000000000601409837

Version: 2.0

12/13



Product name: CRP PENTOSIN FFL-4

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.

Issue Date: 26.04.2016 Revision Date: 06.03.2023 Print date: 23.11.2023

SDS US - 000000000601409837