

LIC Distributor

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

1

Product name: PENTOSIN FFL-2

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/transmission fluid Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

1.5 Details of the supplier of the safety data sheet <u>US Distributor</u>				
Manufacturer	Fuchs Schmierstoffe GmbH Friesenheimer Str. 19	Fuchs Lubricants Co. 17050 Lathrop Avenue		
	68169 Mannheim	Harvey, IL 60426		
Telephone:	+49 621 3701-0 (ZENTRALE)			
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Contact Person:	Fuchs Schmierstoffe GmbH A	bteilung Produktsicherheit		
Telephone:	+49 621 3701-1333			
Fax:	+49 621 3701-7303			
E-mail:	PRODUKTSICHERHEIT@FU	CHS-SCHMIERSTOFFE.DE		
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 not been classified as hazardous and does not need to be labelled according to the legislation in force.

Hazard summary	
Physical Hazards:	No data available.

2.2 Label Elements

not applicable



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

General information:

Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	Notes
baseoil, low viscous	72623-87-1	60.00 - 100.00%	

* 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	Classification	
baseoil, low viscous	72623-87-1	Asp. Tox. 1;H304

4 FIRST AID MEASURES

General:	Change clothes and shoes contaminated or soaked by the product. Never		
	put rags contaminated by the product into clothing pockets.		

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. The product is not skin irritating.
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 treatment needed	Get medical attention if symptoms occur.



SECTION 5: Firefighting measure	8		
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:	No data available.		
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 m	easures		
6.1 Personal precautions, protective equipment and emergency procedures:	Not required.		
6.2 Environmental Precautions:	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:	Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.		
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	Provide adequate ventilation. Observe good industrial hygiene practices.		

Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

handling:



- 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): No data available.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.Exposure Limits

Chemical name	type	Exposure Limit Values	Source

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 measure	es, 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.
Skin protection Hand Protection:	Material: Nitrile butyl rubber (NBR). 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:	Seek advice from local supervisor. 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:	not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	> 220 °C (DIN EN ISO 2592)
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
Vapor density (air=1):	Not applicable for mixtures
Density:	0.84 g/cm3 (20 °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:	36 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 temperature conditions and recommended use. 10.2 Chemical Stability: No data available. 10.3 Possibility of hazardous None under normal conditions. reactions: 10.4 Conditions to avoid: Avoid heat or contamination. 10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases. **10.6 Hazardous Decomposition** Thermal decomposition or combustion may liberate carbon oxides and **Products:** 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: Specified substance(s) baseoil, low viscous	ATEmix: 2,967.52 mg/kg LD 50 (Rat): > 2,001 mg/kg	
Dermal Product: Specified substance(s) baseoil, low viscous	ATEmix: 2,967.52 mg/kg LD 50 (Rabbit): > 2,001 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.
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Serious Eye Damage/Eye In Product:	ritation: Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitiz	zation:
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.
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 Toxicol	ogy Program (NTP) Report on Carcinogens: No carcinogenic components identified
OSHASP: US. OSHA Spec	ifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified
Reproductive toxicity Product:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxic	sity - Single Exposure
Product:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxic Product:	Sity - Repeated Exposure Based on available data, the classification criteria are not met.
Aspiration Hazard Product:	Based on available data, the classification criteria are not met.

12 ECOLOGICAL INFORMATION



12.1 Toxicity

Acute toxicity Product:	Based on available data, the classification criteria are not met.
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.
12.2 Persistence and Degradabil	ity
Biodegradation Product:	Not applicable for mixtures
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:	Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

14 TRANSPORT INFORMATION

DOT

Not regulated.

IMDG - International Maritime Dangerous Goods Code

Not regulated.

ΙΑΤΑ

Not regulated.



15 REGULATORY INFORMATION

US Federal Regulations

Inventory Status

TSCA	On or in compliance with the inventory	
16 OTHER INFORMATION		
Revision Information:	Vertical lines in the margin indicate an amendment.	
Wording of the R-phras	ses and H-statements in section 2 and 3	
H304	May be fatal if swallowed and enters airways.	
Revision Date: Disclaimer:	15.06.2016 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.	