

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: FES 123-6730 (VP)

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

Telephone: +49 621 3701-0 (ZENTRALE)

+49 621 3701-570 Fax:

Contact for request of safety data sheets

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

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

### 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.

### **Environmental Hazards**

Chronic hazards to the aquatic environment Category 3

**Hazard summary** 

Physical Hazards: No data available.

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Version: 1.0 Print date: 23.02.2023 SDS\_US - 300000022577 1/12



Product name: FES 123-6730 (VP)

#### 2.2 Label Elements

**Hazard Statement(s):** H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

**Prevention:** P273: Avoid release to the environment.

**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.

**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. This product is

a trial product. All information complies with the current state of knowledge. The final specification will be established with the commercialization of the

product.

Chemical name	Identifier	Concentration *	Notes
Base oil, low viscous	8042-47-5	50.00 - <100.00%	
ZnDTP	4259-15-8	1.00 - <2.50%	
Phenol derivative	121158-58-5	0.01 - <0.25%	
Diphenylamine	122-39-4	0.10 - <0.25%	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### Classification

Chemical name	Identifier	Classification
Base oil, low viscous	8042-47-5	Asp. Tox. 1;H304
ZnDTP	4259-15-8	Eye Dam. 1;H318, Aquatic Chronic 2;H411
Phenol derivative	121158-58-5	Eye Dam. 1;H318, Aquatic Chronic 1;H410, Aquatic Acute 1;H400, Skin Corr. 1C;H314, Repr. 1B;H360; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10
Diphenylamine	122-39-4	Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, STOT RE 2;H373

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."

Issue Date: 22.02.2023 Revision Date: 23.02.2023 Print date: 23.02.2023 SDS\_US - 300000022577

Revision Date: 23.02.2023 Version: 1.0

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Product name: FES 123-6730 (VP)

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

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.

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:

SDS\_US - 300000022577

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

Issue Date: 22.02.2023 Revision Date: 23.02.2023



Product name: FES 123-6730 (VP)

**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:

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:

Do not heat up to temperatures close to the flash point.

7.3 Specific end use(s): Not applicable

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION



Product name: FES 123-6730 (VP)

## 8.1.Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Base oil, low viscous - Mist.	PEL		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/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2012)
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	•	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
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 - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
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 - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2012)
base oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
base oil	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
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Base oil, low viscous	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000),



Product name: FES 123-6730 (VP)

				as amended (02 2006)
Base oil, low viscous - Mist.	PEL		J	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous	TWA	400 ppm		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, low viscous - Inhalable fraction.	TWA			US. ACGIH Threshold Limit Values, as amended (03 2014)
Base oil, low viscous - Inhalable fraction.	TWA			US. ACGIH Threshold Limit Values, as amended (03 2014)
Base oil, low viscous	PEL	500 ppm	,	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous - Mist.	PEL		J	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)

### 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: 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.



Product name: FES 123-6730 (VP)

**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 Form: liquid

Color: Light 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: 226 °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

**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

Decomposition Temperature: Value not relevant for classification

**Kinematic viscosity:** 40.14 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.



Product name: FES 123-6730 (VP)

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:** 

ATEmix: 274,312.33 mg/kg

Specified substance(s)

ZnDTP LD 50 (Rat): 4,358 mg/kg

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

Dermal

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

ZnDTP LD 50 (Rabbit): > 5,000 mg/kg (OECD 402)

Inhalation

**Product:** 

Not classified for acute toxicity based on available data.

Issue Date: 22.02.2023 Revision Date: 23.02.2023 Print date: 23.02.2023 SDS\_US - 300000022577

Version: 1.0



Product name: FES 123-6730 (VP)

**Skin Corrosion/Irritation:** 

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

Specified substance(s)

ZnDTP (Rabbit): None.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

ZnDTP (Rabbit): Slightly irritating.

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)

ZnDTP , OECD 406-1 (Guinea Pig)Not a skin sensitizer.

**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 not 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.

12 ECOLOGICAL INFORMATION

Issue Date: 22.02.2023 Revision Date: 23.02.2023 Print date: 23.02.2023 SDS\_US - 300000022577

Version: 1.0



Product name: FES 123-6730 (VP)

General information: Not applicable

12.1 Toxicity

Acute toxicity

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

**Fish** 

Specified substance(s)

ZnDTP LC 50 (Fish, 96 h): 4.4 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

ZnDTP EC 50 (Water Flea, 48 h): 75 mg/l (OECD 202)

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

Fish

Specified substance(s)

ZnDTP NOEC (Fish, 4 d): 3.2 mg/l

Aquatic Invertebrates Specified substance(s)

ZnDTP NOEC (Water Flea, 21 d): 0.4 mg/l

Toxicity to Aquatic Plants Specified substance(s)

ZnDTP EC 50 (Alga, 72 h): 410 mg/l NOEC (Alga, 72 h): 220 mg/l

12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

ZnDTP 5 % (28 d, OECD 301B) Not readily degradable.

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.

Issue Date: 22.02.2023 Revision Date: 23.02.2023 Print date: 23.02.2023 SDS\_US - 300000022577

Version: 1.0



Product name: FES 123-6730 (VP)

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.

**TDG** 

Not regulated.

**IMDG - International Maritime Dangerous Goods Code** 

Not regulated.

**IATA** 

Not regulated.

### 15 REGULATORY INFORMATION

## **US Federal Regulations**

## **US State Regulations**

**Inventory Status** 

DSL	Not in compliance with the inventory.
TSCA	Not in compliance with the inventory.

### 16 OTHER INFORMATION

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



Product name: FES 123-6730 (VP)

## Wording of the H-statements in section 2 and 3

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H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated
11400	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Revision Date:** 23.02.2023

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.