

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: RENOLIN HIGH GEAR 460

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 Schmierstoffe GmbH US Distributor

Friesenheimer Str. 19 Fuchs Lubricants Co. 68169 Mannheim 17050 Lathrop Avenue

Harvey, IL 60426

Telephone: +49 621 3701-0 (ZENTRALE) (708) 333-8900

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Environmental Hazards

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

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

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Precautionary Statements

Prevention: P273: Avoid release to the environment.

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.

Supplemental label information

EUH208: Contains: organic Polysulphide, Dialkyl dithiophosphate ester. May

produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
ZnDTP	EINECS: 224-235-5	1,00 - <2,50%	01-2119493635-27	
organic Polysulphide	EINECS: 273-103-3	0,25 - <1,00%	01-2119540515-43	
Phenolic antioxidant agent	EINECS: 204-884-0	0,10 - <0,25%	01-2119490822-33	
Dialkyl dithiophosphate ester	EC: 608-009-7	0,10 - <1,00%		

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

Classification

Chemical name	Identifier	Class	Classification	
ZnDTP	EINECS: 224-235-5	CLP:	Eye Dam. 1;H318, Aquatic Chronic 2;H411	
organic Polysulphide	EINECS: 273-103-3	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Sens. 1B;H317; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1	
Phenolic antioxidant agent	EINECS: 204-884-0	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Irrit. 2;H315	
Dialkyl dithiophosphate ester	EC: 608-009-7	CLP:	, Skin Sens. 1B;H317, Eye Dam. 1;H318	

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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."

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



SECTION 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:

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

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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.

7.3 Specific end use(s): Not applicable

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

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.

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Skin protection

Hand Protection: Material: Nitrile-butadiene 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: Not known.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:liquidForm:liquidColor:Brown

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Freezing point: Not applicable for mixtures

Boiling Point: Not applicable

Flash Point: 215 °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
Vapor density (air=1): Not applicable for mixtures

Density: 0,90 g/ml (15,00 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

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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: 460 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

ZnDTP

LD 50 (Rat): 4.358 mg/kg

Phenolic antioxidant

agent

LD 50 (Rat): > 5.001 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Phenolic antioxidant

agent

LD 50 (Rabbit): > 10.000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

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Product name: RENOLIN HIGH GEAR 460

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.

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.

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.

Other adverse effects: No data available.

SECTION 12: Ecological information

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

Phenolic antioxidant

LC 50 (Fish, 96 h): 0,11 mg/l

agent

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Aquatic Invertebrates Specified substance(s)

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

organic Polysulphide EC 50 (Water Flea, 48 h): 0,24 mg/l (OECD 202)

Phenolic antioxidant

agent

EC 50 (Water Flea, 48 h): 0,45 mg/l

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

organic Polysulphide LC 50 (Alga, 72 h): 0,838 mg/l (OECD 201)

Phenolic antioxidant

agent

EC 50 (Alga, 72 h): 3,6 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

ZnDTP 5 % (28 d, OECD 301B)

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.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

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Product name: RENOLIN HIGH GEAR 460

SECTION 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.

European Waste Codes

13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

ADR/RID

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): Hazard No. (ADR): Tunnel restriction code:

14.4 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

ADN

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): 14.3 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

14.6 Special precautions for user:

Class: Non-dangerous goods

Label(s): EmS No.:

14.3 Packing Group: 14.5 Environmental hazards:

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IATA

14.1 UN Number: –

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s):

14.4 Packing Group:
14.5 Environmental hazards:
14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

National Regulations

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

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

Wording of the H-statements in section 2 and 3

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 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.

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the

application of the conventional method.

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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 signature.

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