

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Product name: RENOLIN CHAINLUBE HT 6020

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)
Fax: +49 621 3701-570

Contact for request of safety data sheets

E-mail: Automotive lubricants CS.Services-FLG@fuchs.com
Industrial lubricants
Telephone: +49 621 3701-0 (ZENTRALE)

Informing department for safety data sheets

E-mail: produktsicherheit-FLG@fuchs.com

1.4 Emergency telephone number: +49 621 3701-0 (Mo - Fr 08:00 - 16:00 Uhr)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

Classification according to GB-CLP.

Environmental Hazards

Chronic hazards to the aquatic environment

Category 2

H411: Toxic to aquatic life with long lasting effects.

Hazard summary

Physical Hazards: No data available.

Product name: RENOLIN CHAINLUBE HT 6020

2.2 Label Elements



Hazard Statement(s): H411: Toxic 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.

Supplemental label information

EUH208: Contains: N-1-naphthylanilin. May produce an allergic reaction.

2.3 Other hazards: The product may not be released into the environment without control. By handling of chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Pentaerythritol ester	EC: 451-180-6	10,00% - <25,00%		
phosphate	EC: 809-930-9	1,00% - <2,50%		
Triaryl phosphate, alkylated	EC: 700-990-0	1,00% - <2,50%		
N-1-naphthylanilin	EINECS: 201-983-0	0,25% - <1,00%		
Triphenyl phosphate	EINECS: 204-112-2	0,10% - <1,00%		**

* 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.

** UK-REACH Candidate List of SVHC for authorisation

Product name: RENOLIN CHAINLUBE HT 6020

Classification

Chemical name	Identifier	Classification
Pentaerythritol ester	EC: 451-180-6	GBCLP: , Aquatic Chronic 4;H413
phosphate	EC: 809-930-9	GBCLP: Repr. 2;H361f, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
Triaryl phosphate, alkylated	EC: 700-990-0	GBCLP: , Aquatic Chronic 2;H411
N-1-naphthylanilin	EINECS: 201-983-0	GBCLP: Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, STOT RE 2;H373, Acute Tox. 4;H302; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
Triphenyl phosphate	EINECS: 204-112-2	GBCLP: Aquatic Chronic 2;H411
GB-CLP		

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. Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

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

Product name: RENOLIN CHAINLUBE HT 6020

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

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.
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

Chemical name	Type	Exposure Limit Values	Source
Triphenyl phosphate	TWA	3 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Triphenyl phosphate	STEL	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)

Product name: RENOLIN CHAINLUBE HT 6020

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.

Eyeface 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: $\geq 0,38$ mm

Avoid long-term and repeated skin contact. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. Suitable gloves can be recommended by the glove supplier. 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:

liquid

Form:

liquid

Color:

Red

Odor:

Characteristic

pH:

substance/mixture is non-soluble (in water)

Product name: RENOLIN CHAINLUBE HT 6020

Freezing point:	not determined
Boiling Point:	Not applicable
Flash Point:	> 290 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	not determined
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0,98 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
Auto-ignition temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	120 - 140 mm ² /s (40 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Not applicable
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.

Product name: RENOLIN CHAINLUBE HT 6020

Specified substance(s)

phosphate LD 50 (Rat): > 5.000 mg/kg

Triaryl phosphate, alkylated LD 50 (Rat): > 5.000 mg/kg

N-1-naphthylanilin LD 50 (Rat): 1.625 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

phosphate LD 50 (Rabbit): > 5.000 mg/kg

N-1-naphthylanilin LD 50 (Rabbit): > 5.000 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.

Specified substance(s)

N-1-naphthylanilin OECD 404 (Rabbit):
Not irritant.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

N-1-naphthylanilin OECD 405 (Rabbit):
Not irritant.

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.

Product name: RENOLIN CHAINLUBE HT 6020

Other adverse effects: No data available.

SECTION 12: Ecological information

General information: Not applicable Not applicable

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

phosphate LC 50 (Fish, 96 h): 0,6 mg/l

Triaryl phosphate, alkylated LC 50 (Fish, 96 h): 3,4 mg/l

N-1-naphthylanilin EC 50 (Fish, 96 h): 0,44 mg/l

Aquatic Invertebrates

Specified substance(s)

phosphate EC 50 (Water Flea, 48 h): 0,146 mg/l (OECD 202)

Triaryl phosphate, alkylated EC 50 (Water Flea, 48 h): 3,9 mg/l

N-1-naphthylanilin LC 50 (Water Flea, 48 h): 0,32 mg/l

Chronic Toxicity

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

Toxicity to Aquatic Plants

Specified substance(s)

N-1-naphthylanilin EC 50 (Alga, 72 h): 0,25 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Triaryl phosphate, alkylated Readily biodegradable

N-1-naphthylanilin 0 % (OECD 301C) Not easily 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.

Product name: RENOLIN CHAINLUBE HT 6020

12.6 Other adverse effects: Toxic to aquatic life with long lasting effects.

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

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.

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID number: UN 3082
 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(phosphate, N-1-naphthylanilin)
 14.3 Transport Hazard Class(es)
 Class: 9
 Label(s): 9
 Hazard No. (ADR): 90
 Tunnel restriction code: (-)
 14.4 Packing Group: III
 14.5 Environmental hazards: Dangerous for the environment
 14.6 Special precautions for user: –

IMDG

14.1 UN number or ID number: UN 3082
 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(phosphate, N-1-naphthylanilin)
 14.3 Transport Hazard Class(es)
 Class: 9
 Label(s): 9
 EmS No.: F-A, S-F
 14.3 Packing Group: III
 14.5 Environmental hazards: Marine pollutant
 14.6 Special precautions for user: –

Product name: RENOLIN CHAINLUBE HT 6020

IATA

- 14.1 UN number or ID number: UN 3082
14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(phosphate, N-1-naphthylanilin)
14.3 Transport Hazard Class(es):
Class: 9
Label(s): 9MI
14.4 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: –

Amounts up to 5kg or 5 L are not regulated, (ADR/RID SP 375, IMDG 2.10.2.7, IATA SP A197)

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:****GB Regulations**

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:
none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:
none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

Hazard category in accordance with GB-CLP	Qualifying quantity for the application of Lower-tier requirements:	Qualifying quantity for the application of Upper-tier requirements:
E2: E2. Hazardous to the aquatic environment	200 t	500 t

SECTION 16: Other information

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

Product name: RENOLIN CHAINLUBE HT 6020

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H373	May cause damage to kidneys through prolonged or repeated exposure if swallowed
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.
H413	May cause long lasting harmful effects to aquatic life.

Other information: The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

Revision Date: 03.02.2025

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.

Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS -

Product name: RENOLIN CHAINLUBE HT 6020

Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative