



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: RENOLIT BNG 1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricating grease

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Fuchs Schmierstoffe GmbH
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1.4 Emergency telephone number:

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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 the legislation in force.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product name: RENOLIT BNG 1

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

Health Hazards

Serious eye damage Category 1 H318: Causes serious eye damage.

Environmental Hazards

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

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: Phosphoric acid ester, amine salt
ZnDTP



Signal Words: Danger

Hazard Statement(s): H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention: P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

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: Lubricating grease: Thickener system and additives in synthetic base oil.

Product name: RENOLIT BNG 1

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Phosphoric acid ester, amine salt	1,00 - <5,00%	296-404-1		
Mo dithiocarbamate	1,00 - <5,00%	441-570-4		
ZnDTP	1,00 - <5,00%	224-235-5	01-2119493635-27	
phenol derivative	1,00 - <5,00%	Confidential	Confidential	
Amine aromatic , alkylated	1,00 - <5,00%	Confidential	Confidential	
aromatic phosphoric acid ester derivative	0,10 - <1,00%	Confidential	Confidential	

* 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
Phosphoric acid ester, amine salt	DSD: Xi; R41 N; R51/53
	CLP: Aquatic Chronic 2;H411, Eye Dam. 1;H318
Mo dithiocarbamate	DSD: Xi; R38 N; R51/53
	CLP: Skin Irrit. 2;H315, Aquatic Chronic 2;H411
ZnDTP	DSD: Xi; R41 N; R51/53
	CLP: Eye Dam. 1;H318, Aquatic Chronic 2;H411
phenol derivative	DSD: R53
	CLP: Aquatic Chronic 4;H413
Amine aromatic , alkylated	DSD: R52/53
	CLP: Aquatic Chronic 3;H412
aromatic phosphoric acid ester derivative	DSD: N; R50/53
	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

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

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth thoroughly.

Product name: RENOLIT BNG 1

4.2 Most important symptoms and effects, both acute and delayed: Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: 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 tensides 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 measures

6.1 Personal precautions, protective equipment and emergency procedures: Not required.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. 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.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Product name: RENOLIT BNG 1

SECTION 7: Handling and storage:

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| 7.1 Precautions for safe handling: | 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. |
| 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): | Not applicable |

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: No data available.

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.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes. Wear closed protection glasses.

Skin protection

Hand Protection: 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: Not relevant, due to the form of the product.

Thermal hazards: No data available.

Product name: RENOLIT BNG 1

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:	Solid
Form:	Paste
Color:	Green, Brown
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)—:	No data available.
Flammability Limit - Lower (%)—:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	0,86 g/cm ³ (25 °C)
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
NLGI:	0-1
Explosive properties:	No data available.
Oxidizing properties:	No data available.

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.

Product name: RENOLIT BNG 1

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|---|---|
| 10.3 Possibility of Hazardous Reactions: | None under normal conditions. |
| 10.4 Conditions to Avoid: | Avoid heat or contamination. |
| 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)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	LD 50 (Rat): > 2.001 mg/kg
ZnDTP	LD 50 (Rat): 4.358 mg/kg
phenol derivative	LD 50 (Rat): > 2.001 mg/kg
Amine aromatic, alkylated	LD 50 (Rat): > 2.001 mg/kg (OECD 401)
aromatic phosphoric acid ester derivative	No data available.

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	LD 50 (Rat): > 2.001 mg/kg
ZnDTP	No data available.
phenol derivative	LD 50 (Rabbit): > 2.001 mg/kg
Amine aromatic, alkylated	LD 50 (Rat): > 2.001 mg/kg
aromatic phosphoric acid ester derivative	No data available.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Product name: RENOLIT BNG 1

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Repeated Dose Toxicity

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	(Rabbit): None.
phenol derivative	OECD 404 (Rabbit): None.
Amine aromatic , alkylated	OECD 404 (Rabbit): Not irritant.
aromatic phosphoric acid ester derivative	No data available.

Product name: RENOLIT BNG 1

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	(Rabbit): Slightly irritating.
phenol derivative	OECD 405 (Rabbit): None.
Amine aromatic , alkylated	OECD 405 (Rabbit): Not irritant.
aromatic phosphoric acid ester derivative	No data available.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No sensitizing effect (guinea pig); OECD 406
Amine aromatic , alkylated	No sensitizing effect (guinea pig); OECD 406
aromatic phosphoric acid ester derivative	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

In vivo

Product: No data available.

Product name: RENOLIT BNG 1

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Carcinogenicity

Product:	No data available.
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Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Reproductive Toxicity

Product:	No data available.
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Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
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Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Product name: RENOLIT BNG 1

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	LC 50 (Fish, 96 h): 400 mg/l
ZnDTP	LC 50 (Fish, 96 h): 1,1 - 10 mg/l
phenol derivative	LC 50 (Fish, 96 h): > 74 mg/l
Amine aromatic , alkylated	LC 50 (Fish, 96 h): > 71 mg/l
aromatic phosphoric acid ester derivative	LC 50 (Fish, 96 h): 0,8 mg/l

Aquatic Invertebrates

Product: No data available.

Product name: RENOLIT BNG 1

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	EC 50 (Water Flea, 48 h): 15 mg/l
ZnDTP	EC 50 (Water Flea, 48 h): 1,1 - 10 mg/l
phenol derivative	EC 50 (Water Flea, 48 h): > 101 mg/l
Amine aromatic , alkylated	EC 50 (Water Flea, 48 h): 51 mg/l
aromatic phosphoric acid ester derivative	EC 50 (Water Flea, 48 h): 0,202 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	NOEC (Water Flea, 21 d): >= 1 mg/l
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	EC 50 (Alga, 72 h): 3,4 mg/l
ZnDTP	EC 50 (Alga, 72 h): > 240 mg/l
phenol derivative	EC 50 (Alga, 72 h): > 3 mg/l
Amine aromatic , alkylated	No data available.

Product name: RENOLIT BNG 1

aromatic phosphoric acid No data available.
ester derivative

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Phosphoric acid ester, No data available.
amine salt
Mo dithiocarbamate No data available.
ZnDTP No data available.
phenol derivative No data available.
Amine aromatic , No data available.
alkylated
aromatic phosphoric acid No data available.
ester derivative

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Phosphoric acid ester, No data available.
amine salt
Mo dithiocarbamate No data available.
ZnDTP No data available.
phenol derivative No data available.
Amine aromatic , No data available.
alkylated
aromatic phosphoric acid No data available.
ester derivative

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Phosphoric acid ester, No data available.
amine salt
Mo dithiocarbamate No data available.
ZnDTP No data available.
phenol derivative No data available.
Amine aromatic , alkylated No data available.
aromatic phosphoric acid No data available.
ester derivative

12.5 Results of PBT and vPvB assessment: No data available.

Product name: RENOLIT BNG 1

Phosphoric acid ester, amine salt	No data available.
Mo dithiocarbamate	No data available.
ZnDTP	No data available.
phenol derivative	No data available.
Amine aromatic , alkylated	No data available.
aromatic phosphoric acid ester derivative	No data available.

12.6 Other Adverse Effects: Harmful to aquatic life with long lasting effects.

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

12 01 12*: spent waxes and fats

SECTION 14: Transport information

ADR/RID

Non-dangerous goods

ADN

Non-dangerous goods

IMDG

Non-dangerous goods

IATA

Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL73/78 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

Product name: RENOLIT BNG 1

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

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 R-phrases and H-statements in section 2 and 3

H315	Causes skin irritation.
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.
H413	May cause long lasting harmful effects to aquatic life.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Training information:

Follow training instructions when handling this material.

Other information:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date:

05.02.2015

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.