

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 CXI 2

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 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 (EU) 1272/2008 (CLP).

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.

Product name: RENOLIT CXI 2

2.2 Label Elements

Contains:

Ca-sulfonate



Signal Words:

Danger

Hazard Statement(s):

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

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.

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: Calcium Sulfonate, Calcium Sulfonate, Ca Sulfonate. May produce an allergic reaction.

2.3 Information on 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.

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Lubricating grease: Thickener system and additives in solvent refined mineral oil.

Product name: RENOLIT CXI 2

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Calcium Sulfonate	EINECS: 271-529-4	1,00% - <5,00%	01-2119492627-25	
Ca-sulfonate	EINECS: 932-231-6	3,00% - <5,00%	01-2119560592-37	
Calcium Sulfonate	EINECS: 263-093-9	1,00% - <5,00%	01-2119488992-18	
Ca Sulfonate	EINECS: 274-263-7	1,00% - <5,00%	01-2119492616-28	
Triaryl phosphate, alkylated	EC: 700-990-0	0,10% - <1,00%	01-2119519251-50	
Amine aromatic , alkylated	EINECS: 270-128-1	0,10% - <1,00%	01-2119491299-23	
phenolic antioxidant	EINECS: 204-881-4	0,25% - <1,00%	01-2119565113-46	

* 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	Identifier	Classification
Calcium Sulfonate	EINECS: 271-529-4	CLP: Skin Sens. 1B;H317
Ca-sulfonate	EINECS: 932-231-6	CLP: Eye Dam. 1;H318, Skin Irrit. 2;H315, Aquatic Chronic 3;H412
Calcium Sulfonate	EINECS: 263-093-9	CLP: Skin Sens. 1B;H317
Ca Sulfonate	EINECS: 274-263-7	CLP: Skin Sens. 1B;H317
Triaryl phosphate, alkylated	EC: 700-990-0	CLP: Aquatic Acute 1;H400, Aquatic Chronic 2;H411; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
Amine aromatic , alkylated	EINECS: 270-128-1	CLP: Repr. 2;H361f, Aquatic Chronic 3;H412
phenolic antioxidant	EINECS: 204-881-4	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
Calcium Sulfonate	EINECS: 271-529-4	>= 10 %	Skin sensitizer	1B	H317
Calcium Sulfonate	EINECS: 263-093-9	>= 10 %	Skin sensitizer	1B	H317
Ca Sulfonate	EINECS: 274-263-7	>= 10 %	Skin sensitizer	1B	H317

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."

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Product name: RENOLIT CXI 2

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.
Ingestion:	Rinse mouth thoroughly.
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	Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	CO ₂ , 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 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:	Not required.
6.2 Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
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. Stop the flow of material, if this is without risk.

Product name: RENOLIT CXI 2

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.

SECTION 7: Handling and storage:

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
Storage Class:	11, Combustible solids

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 in handling the chemicals or the mineral oil products.

Eye/face protection:

Wear eye protection/face protection. Avoid contact with skin and eyes.

Product name: RENOLIT CXI 2

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. 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:

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:

solid

Form:

Paste

Color:

Light brown

Odor:

Characteristic

pH:

substance/mixture is non-soluble (in water)

Drop Point:

270 °C (IP 396)

Boiling Point:

not determined

Flash Point:

Not applicable

Evaporation Rate:

Not applicable for mixtures

Flammability (solid, gas):

not determined

Flammability Limit - Upper (%)—:

Not applicable for mixtures

Flammability Limit - Lower (%)—:

Not applicable for mixtures

Vapor pressure:

Not applicable for mixtures

Relative vapor density:

Not applicable for mixtures

Density:

1,05 g/ml (25,00 °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:

not determined

Decomposition Temperature:

not determined

Product name: RENOLIT CXI 2

NLGI:	2
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Study technically not feasible
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

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	Causes serious eye damage.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Oral

Product:	Not classified for acute toxicity based on available data.
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Product name: RENOLIT CXI 2

Specified substance(s)

Calcium Sulfonate	LD 50 (Rat): > 5.001 mg/kg
Calcium Sulfonate	LD 50 (Rat): > 16.000 mg/kg
Ca Sulfonate	LD 50 (Rat): > 5.000 mg/kg (OECD 401)
Triaryl phosphate, alkylated	LD 50 (Rat): > 5.001 mg/kg
Amine aromatic , alkylated	LD 50 (Rat): > 5.000 mg/kg (OECD 401)
phenolic antioxidant	LD 50 (Rat): > 2.930 mg/kg (OECD 401)

Dermal

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

Specified substance(s)

Calcium Sulfonate	LD 50 (Rabbit): > 5.001 mg/kg
Calcium Sulfonate	LD 50 (Rat): > 5.001 mg/kg
Ca Sulfonate	LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)
phenolic antioxidant	LD 50 (Rat): > 5.000 mg/kg (OECD 402)

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)

Calcium Sulfonate	OECD 404 (Rabbit): Not irritant.
Ca-sulfonate	OECD 404 Slightly irritating.
Calcium Sulfonate	OECD 404 (Rabbit): Not irritant.
Ca Sulfonate	OECD 404 (Rabbit): Not irritant.

Product name: RENOLIT CXI 2

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

Calcium Sulfonate OECD 405 (Rabbit):
Not irritant.

Ca-sulfonate OECD 405
May cause burns.

Amine aromatic , alkylated OECD 405 (Rabbit):
Not irritant.

Respiratory or Skin Sensitization:

Product:

Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.

Specified substance(s)

Calcium Sulfonate
May cause sensitization by skin contact.

Ca-sulfonate , OECD 406-1 (Guinea Pig)
Based on available data, the classification criteria are not met.

Calcium Sulfonate
May cause sensitization by skin contact.

Ca Sulfonate
May cause sensitization by skin contact.

Amine aromatic , alkylated
No sensitizing effect (guinea pig); OECD 406

phenolic antioxidant
No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

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

In vitro

Specified substance(s)

Ca-sulfonate (OECD 471)
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 name: RENOLIT CXI 2

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

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

Calcium Sulfonate LL 50 (Cyprinodon variegatus, 96 h): > 10.000 mg/l (OECD 203)

Ca-sulfonate LL 50 (Fish, 96 h): > 1 mg/l (OECD 203)
LL 50 (Fish, 96 h): < 10 mg/l (OECD 203)

Calcium Sulfonate LC 50 (Fish, 96 h): > 10.000 mg/l (OECD 203)

Ca Sulfonate LC 50 (Fish, 96 h): > 1.001 mg/l (OECD 203)

Triaryl phosphate, alkylated LC 50 (Fish, 96 h): 0,8 mg/l

Amine aromatic , alkylated LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

Calcium Sulfonate EL50 (Daphnia magna, 48 h): > 1.000 mg/l

Ca-sulfonate LL 50 (Water Flea, 48 h): 2,9 mg/l (OECD 202)

Calcium Sulfonate EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

Ca Sulfonate EC 50 (Water Flea, 48 h): > 1.001 mg/l

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

Amine aromatic , alkylated EC 50 (Daphnia magna): 51 mg/l (OECD 202)

phenolic antioxidant EC 50 (Water Flea, 48 h): 0,61 mg/l (OECD 202)

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

Product name: RENOLIT CXI 2

Fish

Specified substance(s)

Triaryl phosphate, alkylated NOEC (Fish, 90 d): 0,093 mg/l

Aquatic Invertebrates

Specified substance(s)

Triaryl phosphate, alkylated NOEC (Water Flea, 21 d): 0,0399 mg/l

phenolic antioxidant NOEC (Water Flea, 21 d): > 0,39 mg/l

Toxicity to Aquatic Plants

Specified substance(s)

Calcium Sulfonate EL50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 1.000 mg/l

Ca-sulfonate EC 50 (Alga, 96 h): 29 mg/l

Ca Sulfonate EC 50 (Alga, 72 h): > 1.000 mg/l

Triaryl phosphate, alkylated EC 50 (Alga, 72 h): 1,4 mg/l
NOEC (Alga, 72 h): 0,05 mg/l

Amine aromatic , alkylated EC 50 (72 h): > 100 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Ca-sulfonate (OECD 301B) Readily biodegradable

Calcium Sulfonate 8,6 % (28 d) Not easily biodegradable

Triaryl phosphate, alkylated 61 % (28 d) Readily biodegradable

Amine aromatic , alkylated Not readily degradable.

phenolic antioxidant 30 % (OECD 302C) Not readily degradable.

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

Specified substance(s)

phenolic antioxidant May be accumulated in organism

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: RENOLIT CXI 2

12.6 Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects: Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK): WGK 2: significantly 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.

European Waste Codes

12 01 12*: spent waxes and fats

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID 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: —

IMDG

14.1 UN number or ID number: —
 14.2 UN Proper Shipping Name: —
 14.3 Transport Hazard Class(es)
 Class: Non-dangerous goods
 Label(s): —
 EmS No.: —
 14.3 Packing Group: —
 14.5 Environmental hazards: —
 14.6 Special precautions for user: —

Product name: RENOLIT CXI 2

IATA

- 14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

EU Regulations

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

National Regulations

Water Hazard Class (WGK): WGK 2: significantly 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

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361f Suspected of damaging fertility.
- 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. The following evaluation methods were used: - On the basis of test data - Calculation Method - Bridging Principle "Substantially similar mixtures" - Expert Judgement

Revision Date: 18.01.2023

Product name: RENOLIT CXI 2

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.