

SAFETY DATA SHEET

1. Identification

Product name

RENOLIT CXS EXT 1

Other means of identification	No data available.
Recommended use:	Lubricating grease

Restrictions on use:

Industrial use only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name:	Fuchs Lubricants Co.
Address:	17050 Lathrop Avenue
Telephone: Fax:	Harvey, Illinois 60426 708-333-8900 708-333-9180
Contact Person:	EHS Department
E-mail:	sds@fuchsus.com

Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, oral	17.51 %
Acute toxicity, dermal	20.86 %
Acute toxicity, inhalation, vapor	89.5 %
Acute toxicity, inhalation, dust	81.05 %
or mist	

Label Elements

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	Causes skin irritation. Causes serious eye damage.
Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.
Response:	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Disposal:	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.
hazards which do not in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Other result

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Mineral oil	Mineral oil,	64741-88-4	7 - 15%
Graphite	Graphite,	7782-42-5	1 - 10%
Calcium hydroxide	Calcium hydroxide,	1305-62-0	1 - 10%
Calcium carbonate		471-34-1	1 - 10%
Alkylbenzenesulfonic acid		68584-22-5	1 - 5%
Zinc compound		12001-85-3	1 - 5%
Lubricating oils (petroleum), hydrotreated spent		64742-58-1	0.1 - 1%
2-butoxyethanol		111-76-2	0.1 - 1%
Acetic acid		64-19-7	0.1 - 1%

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

4. First-aid measures

Ingestion:

Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.

Inhalation:

Move to fresh air. Call a POISON CENTRE/doctor/ if you feel unwell.



Skin Contact:	Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Most important symptoms/effect	s, acute and delayed
Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medical	attention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or regular foam. Use fire- extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for Absorb spill with vermiculite or other inert material, then place in a container containment and cleaning for chemical waste. Dike far ahead of larger spill for later recovery and disposal. up:



Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.	
7. Handling and storage		
Precautions for safe handling:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Do not get in eyes. Wash hands thoroughly after handling. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water. Avoid contact with skin.	
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.	

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Mineral oil - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Mineral oil - Mist.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Graphite - Respirable.	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Graphite - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Graphite - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Graphite - Respirable fraction.	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	4 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)



Graphite - Respirable dust.	TWA	2 mg	g/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Graphite - Respirable fraction.	TWA	2 mg	g/m3	US. ACGIH Threshold Limit Values (03 2012)
Calcium hydroxide	TWA	5 mg	g/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Calcium hydroxide	TWA	5 mg	g/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Calcium hydroxide	TWA	5 mg	g/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Calcium hydroxide	8 HR ACL	5 mg	g/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	10 mg	g/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Calcium hydroxide	TWA	5 mg		Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Calcium hydroxide	TWA	5 mg		US. ACGIH Threshold Limit Values (03 2012)
Calcium carbonate	TWA	10 mg		Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Calcium carbonate - Total dust.	STEL	20 mg	g/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Calcium carbonate - Respirable fraction.	TWA	3 mg	g/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Calcium carbonate - Total dust.	TWA	10 mg	g/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Calcium carbonate	8 HR ACL	10 mg	g/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	20 mg		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Calcium carbonate - Total dust.	TWA	10 mg	g/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Lubricating oils (petroleum), hydrotreated spent - Mist.	TWA	1 mg	g/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Lubricating oils (petroleum), hydrotreated spent - Inhalable fraction.	TWA	5 mg	g/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
2-butoxyethanol	TWA	20 ppm 97 mg	g/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
2-butoxyethanol	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
2-butoxyethanol	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
2-butoxyethanol	8 HR ACL	20 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	30 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)



2-butoxyethanol	TWA	20 ppm	97 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
2-butoxyethanol	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2012)
Acetic acid	TWA	10 ppm	25 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
	STEL	15 ppm	37 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Acetic acid	STEL	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
	TWA	10 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Acetic acid	STEL	15 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWA	10 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Acetic acid	8 HR ACL	10 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	15 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Acetic acid	TWA	10 ppm	25 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
	STEL	15 ppm	37 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Acetic acid	TWA	10 ppm		US. ACGIH Threshold Limit Values (03 2012)
	STEL	15 ppm		US. ACGIH Threshold Limit Values (03 2012)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. 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.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	No data available.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.



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.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Semi-solid
Color:	black
Odor:	mild
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	265 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Marrier Law Ma	N
Vapor density:	No data available.
Density:	No data available.
Relative density:	1.01
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	Not reactive during normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.



Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
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: Harmful if inhaled.		
Skin Contact:	Causes severe skin burns.	
Eye contact:	Causes serious eye damage.	
Ingestion:	Harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix (): 2000 - 5000 mg/kg
Dermal Product:	ATEmix (): 2000 - 5000 mg/kg
Inhalation Product:	ATEmix (, 4 h): > 5 mg/l Dusts, mists and fumes
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritation Product: No data available.	
Respiratory or Skin Sensitization Product:	n No data available.



No data available.			
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified			
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified			
ACGIH Carcinogen List: No carcinogenic components identified			
No data available.			
No data available.			
No data available.			
Specific Target Organ Toxicity - Single ExposureProduct:No data available.			
Specific Target Organ Toxicity - Repeated Exposure Product:No data available.			
No data available.			

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:

No data available.

Aquatic Invertebrates Product: No data available.

Chronic hazards to the aquatic environment:



Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential	
Bioconcentration Factor (BC Product:	F) No data available.
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.
Mobility in soil: Other adverse effects:	No data available. No data available.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
14. Transport information	

TDG

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information



Canada Federal Regulations List of Toxic Substances (C			
Chemical Identity Zinc compound 2-butoxyethanol			
Export Control List (CEPA 1 Not Regulated	999, Schedule 3)		
National Pollutant Release Inventory (NPRI) Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional			
Reporting Requirements CAD PSL2	2-butoxyethanol	Listed.	
(NPRI) (Parts 1-4) CAD PSL2 Greenhouse Gases Not Regulated	Zinc compound	: (CEPA). National Pollutant Release Inventory Listed.	
16.Other information, including date of preparation or last revision			
Issue Date:	08/04/2017		
Revision Date:	08/03/2017		
Version #: Further Information:	1.0 No data available.		

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.