

SAFETY DATA SHEET

1. Identification

Product identifier RENOLIT LX FMB 2

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

Harvey, Illinois 60426

Telephone: 708-333-8900 Fax: 708-333-9180

Contact Person: EHS Department sds@fuchs.com

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

2. Hazard identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Target Organs

1. Respiratory tract irritation.

Unknown toxicity - Health

Acute toxicity, oral 2.77 %
Acute toxicity, dermal 3.44 %
Acute toxicity, inhalation, vapor 70.58 %
Acute toxicity, inhalation, dust 13.26 %

or mist

% of the mixture consists of an ingredient or ingredients of unknown acute toxicity

Label Elements

Hazard Symbol:

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Signal Word: Warning

Hazard Statement: Causes serious eye irritation.

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Avoid

release to the environment. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Paraffin oils (petroleum)	Paraffin oils (petroleum),	64742-70-7	30 - 60%
Residual oils (petroleum), solvent-dewaxed	Residual oils,	64742-62-7	10 - 30%
Lithium soap	Lithium soap,	7620-77-1	5 - 10%
Polyisobutylene	Polyisobutylene,	9003-27-4	3 - 7%
Fatty acids, C18-unsatd., diesters and triesters with trimethylolpropane		1335202-94-2	1 - 5%
Boric acid, potassium salt	Boric acid, potassium salt,	20786-60-1	0.5 - 1.5%
Distillates (petroleum), hydrotreated heavy naphthenic	Mineral oil,	64742-52-5	0.5 - 1.5%
Antimony compound	Antimony compound,	15890-25-2	0.5 - 1.5%
Mineral oil	Mineral oil,	64741-88-4	0.1 - 1%
Zinc compound	compound, Zinc compound,		0.1 - 1%
Molybdenum compound (insoluble)	Molybdenum compound (insoluble),	72030-25-2	0.1 - 1%
Lithium hydroxide		1310-66-3	0.1 - 1%
Xylene (mixed isomers)		1330-20-7	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: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a POISON CENTER/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.

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

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing 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 and precautions for fire-fighters

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 measures

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. Ensure adequate ventilation.

Methods and material for containment and cleaning

up:

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

disposal.

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. Avoid contact with eyes. Wash hands thoroughly after handling. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water.

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

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Paraffin oils (petroleum) - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Paraffin oils (petroleum) - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Paraffin oils (petroleum) - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Paraffin oils (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Residual oils (petroleum), solvent-dewaxed - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Residual oils (petroleum), solvent-dewaxed - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Antimony compound - as Sb	8 HR ACL	0.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	1.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)

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Antimory compound - as Sb Mineral oil - Mist. TWA I mg/m3 Canada, British Columbia OELs. (Occupation Substances, Occupational Health and Safety Regulation 2596/7, as amended (19 2011) Mineral oil - Inhalable fraction. TWA TWA S mg/m3 Canada, Cuche OELs. (Ministry of Labor-Regulation respecting occupational health and Safety Regulation 2596/7, as amended (19 2011) STEL 10 mg/m3 Canada, Cucheo OELs. (Ministry of Labor-Regulation respecting occupational health as safety), as amended (19 2017) STEL 10 mg/m3 Canada, Cucheo Cells. (Ministry of Labor-Regulation respecting occupational health as safety), as amended (19 2017) Canada, Cucheo Cells. (Ministry of Labor-Regulation respecting occupational health as safety), as amended (19 2017) Molybdenum compound (insoluble) - Total - as Mo Molybdenum compound (insoluble) - Respirable as Molybdenum compound (insoluble) - Inhalable (insoluble) - Respirable as Molybdenum compound (insoluble) - Respirable as Molybdenum compound (insoluble) - Respirable as Molybdenum compound (insoluble) - Respirable - as Molybdenum compound (insoluble) - Inhalable	Antimony compound - as Sb	TWA		0.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended (09.2011)	Antimony compound - as Sb	TWA		0.5 mg/m3	US. ACGIH Threshold Limit Values, as
Mineral oil - Mist.	Mineral oil - Mist.	TWA		1 mg/m3	Substances, Occupational Health and Safety
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Molybdenum compound (insoluble) - Respirable fraction as Mo Lithium hydroxide STEL 1 mg/m3 Canada. Ontario OELs. (Control of Exposure Biological or Chemical Agents), as amended (11 2010) Xylene (mixed isomers) TWA 100 ppm 434 mg/m3 Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2), as amended (07 2009) STEL 150 ppm 651 mg/m3 Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2), as amended (07 2009)		TWA		, and the second	Regulation respecting occupational health and safety), as amended (09 2017)
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Xylene (mixed isomers) TWA 100 ppm 434 mg/m3 Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2), as amended (07 2009) STEL 150 ppm 651 mg/m3 Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2), as affety Code, Schedule 1, Table 2), as		STEL		1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Safety Code, Schedule 1, Table 2), as	Xylene (mixed isomers)	TWA	100 ppm	434 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as
		STEL	150 ppm	651 mg/m3	Canada. Alberta OELs (Occupational Health &

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Xylene (mixed isomers) - Vapor and aerosol, inhalable.	TWA	0.5 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Xylene (mixed isomers)	STEL	150 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
	TWA	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Xylene (mixed isomers)	TWA	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	STEL	150 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Xylene (mixed isomers)	8 HR ACL	100 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	150 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Xylene (mixed isomers)	STEL	150 ppm	651 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Xylene (mixed isomers)	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended (03 2012)
	STEL	150 ppm		US. ACGIH Threshold Limit Values, as amended (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.

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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:solidForm:GreaseColor:Dark blue

Odor: Mild petroleum/solvent

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: 218.33 °C

Evaporation rate:No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

No data available.

No data available.

Vapor density:No data available.Density:No data available.

Relative density: 0.91

Solubility(ies)

Solubility in water: Insoluble

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: > 22 mm2/s (40 °C, estimated)

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.

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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 skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be 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:

Delayed and immediate effects, including chronic effects from short- and long-term exposure

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: No data available.

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Carcinogenicity

Product: 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

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

Aspiration Hazard

Product: 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.

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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 (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Other adverse effects: 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.

IATA

Not regulated.

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15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional

Reporting Requirements

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Antimony compound Listed.

Greenhouse Gases

Not Regulated

16.Other information, including date of preparation or last revision

Issue Date: 06/15/2023

Revision Date: 06/15/2023

Version #: 1.1

Further Information: 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.

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