

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier RENOLIT ST 80 NLGI 2 1/2

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**

Skin sensitizer Category 1

#### **Unknown toxicity - Health**

Acute toxicity, oral 10.15 %
Acute toxicity, dermal 10.73 %
Acute toxicity, inhalation, vapor 98.18 %
Acute toxicity, inhalation, dust 12.63 %

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:** May cause an allergic skin reaction.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get

medical advice/attention. Specific treatment (see in product SDS). Take off

contaminated clothing and wash it before reuse.

**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.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Mineral oil	Mineral oil,	Trade Secret	65 - 85%
Zinc oxide	Zinc oxide,	1314-13-2	0.5 - 1.5%
Titanium dioxide	Titanium dioxide,	13463-67-7	0.1 - 1%
Glycerin	Glycerin,	56-81-5	0.1 - 1%
Olefin sulfide	Olefin sulfide,	Trade Secret	0.1 - 1%
Phosphoric acid esters/amine salt	Phosphoric acid esters/amine salt,	Trade Secret	0.1 - 1%
Amorphous silica	Amorphous silica,	7631-86-9	0.1 - 1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Trade secret information:** A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

## 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.

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**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Continue to rinse for at least 15 minutes.

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.

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 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 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.

Methods and material for containment and cleaning

Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.

up:

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.

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# 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, skin, and

clothing. Wash hands thoroughly after handling.

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) (05 2013)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Mineral oil - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Zinc oxide - Respirable.	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Zinc oxide - 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)
	STEL	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Zinc oxide - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	STEL	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Zinc oxide - Respirable fraction and dust or fume.	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Zinc oxide - Fume.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

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Zinc oxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Titanium dioxide	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Titanium dioxide	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Glycerin - Mist.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Glycerin - Respirable mist.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Glycerin - Mist.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Glycerin - Mist.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Amorphous silica	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

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**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:solidForm:GreaseColor:Beige

Odor:Mild petroleum/solventOdor threshold:No data available.pH:No data available.

Melting point/freezing point:

Initial boiling point and boiling range:

No data available.

No data available.

Flash Point: 210 °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.

Vapor pressure:

No data available.

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

Relative density: 0.94

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)

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**VOC:** 3.8 % (Method 24)

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:** This product contains a low concentration of titanium dioxide that is bound

in the product matrix. As a consequence, exposure to airborne TiO2

particulates/dusts is not anticipated.

**Skin Contact:** Prolonged or repeated skin contact may cause drying, cracking, or irritation.

May cause an allergic skin reaction.

**Eye contact:** Eye contact is possible and should be avoided.

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

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

Dermal

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

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

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:** May cause an allergic skin reaction.

Carcinogenicity

**Product:** This product contains a low concentration of titanium dioxide that is bound in

the product matrix. As a consequence, exposure to airborne TiO2

particulates/dusts is not anticipated.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: 2B. Possibly carcinogenic to humans.

**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.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

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### 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 (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.

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# 14. Transport information

**TDG** 

Not regulated.

**IMDG** 

Not regulated.

**IATA** 

Not regulated.

# 15. Regulatory information

**Canada Federal Regulations** 

List of Toxic Substances (CEPA, Schedule 1)

**Chemical Identity** 

Zinc oxide

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)

CAD PSL2 Zinc oxide Listed.

### **Greenhouse Gases**

Not Regulated

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

**Issue Date:** 01/13/2020

**Revision Date:** 01/10/2020

Version #: 1.2

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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