

# SAFETY DATA SHEET

## 1. Identification

**Product name RENOFORM OS 3349** 

Other means of identification No data available.

Recommended use: Metalworking fluid

Restrictions on use: Industrial use only

# Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Fuchs Lubricants Co. Address: 17050 Lathrop Avenue Harvey, Illinois 60426

708-333-8900

Telephone: Fax: 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**

Category 4 Acute toxicity (Oral) Acute toxicity (Inhalation - vapor) Category 4 Serious Eye Damage/Eye Irritation Category 1

### **Label Elements**

### **Hazard Symbol:**



Signal Word: Danger

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Hazard Statement: Harmful if swallowed or if inhaled

Causes serious eye damage.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Wash thoroughly after handling. Do not eat, drink or

smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. Rinse

mouth. 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.

Other hazards which do not result in GHS classification:

None.

# **Unknown toxicity - Health**

Acute toxicity, oral 72.59 %
Acute toxicity, dermal 19.54 %
Acute toxicity, inhalation, vapor 97.59 %
Acute toxicity, inhalation, dust 99.01 %

or mist

# 3. Composition/information on ingredients

**General information:** The components are not hazardous or are below required disclosure limits.

**Hazardous Component(s):** 

Chemical name	CAS-No.	Concentration	
Mineral oil	Confidential	50 - <100%	
Alkyl Sodium Sulfonate	Confidential	5 - <10%	
Nonylphenol ethoxylate	Confidential	1 - <3%	
Specific chemical identities and/or exact percei	ntages have been withheld as trade secrets	S.	
Mineral oil	Confidential	50 - <100%	
Alkyl Sodium Sulfonate	Confidential	5 - <10%	
Mineral oil	Confidential	1 - <5%	
Nonylphenol ethoxylate	Confidential	1 - <3%	
Triethanolamine	102-71-6	0.1 - <1%	
Ethylene glycol	107-21-1	0 - <0.1%	
1,4-Dioxane	123-91-1	0 - <0.1%	

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Ethylene oxide 75-21-8 0 - <0.1%
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Specific chemical identities and/or exact percentages have been withheld as trade secrets. Specific chemical identities and/or exact percentages have been withheld as trade secrets.

# 4. First-aid measures

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Call a POISON CENTER/doctor if you feel unwell. Move to fresh air.

**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.

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.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away.

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:

End-users should follow industry best practices for handling and using this product.

Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Avoid contact with eyes. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store locked up. Store in a well-ventilated place.

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## 8. Exposure controls/personal protection

**Exposure Limits** 

Chemical name	Туре	Exposure Limit Values		Source
Mineral oil - Mist.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
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Mineral oil - Mist.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Triethanolamine	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (03 2012)
Ethylene glycol - Aerosol, inhalable.	STEL		10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Ethylene glycol - Vapor fraction	TWA	25 ppm		US. ACGIH Threshold Limit Values (03 2017)
Ethylene glycol - Vapor fraction	STEL	50 ppm		US. ACGIH Threshold Limit Values (03 2017)
1,4-Dioxane	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2012)
1,4-Dioxane	PEL	100 ppm	360 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ethylene oxide	TWA	1 ppm		US. ACGIH Threshold Limit Values (03 2012)

Protective Measures: 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.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear chemical-resistant gloves, footwear, and protective clothing appropriate

for the risk of exposure. Contact health and safety professional or manufacturer

for specific information.

**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

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**Appearance** 

Physical state: Liquid

Form: No data available.

Color: Brown
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:157.22 °C (315.00 °F)Evaporation rate: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.

No data available.

Relative density: 0.93

Solubility(ies)

Flammability (solid, gas):

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
No data available.
Viscosity:
No data available.
> 20.5 mm2/s (40 °C)

Other information

**VOC:** 54.8 g/l (ASTM E 1868-10)

# 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.

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**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

**Ingestion:** May be harmful if swallowed. Harmful if swallowed.

**Inhalation:** Harmful if inhaled.

**Skin Contact:** May be harmful in contact with skin. Prolonged or repeated skin contact

may cause drying, cracking, or irritation.

**Eye contact:** Do not get in eyes. Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix (): 300 - 2000 mg/kg

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** ATEmix (, 4 h): 10 - 20 mg/l Vapour

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:** No data available.

Carcinogenicity

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**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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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:** Components may cause a risk to the following:

Skin irritation Eye irritation Central Nervous System Testes kidney damage liver damage Upper Respiratory Tract irritation Cancer Central Nervous

System impairment

12. Ecological information

**General information:** This product has not been evaluated for ecological toxicity or other

environmental effects.

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.

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Contaminated Packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

# 14. Transport information

DOT

Not regulated.

**IMDG** 

Not regulated.

**IATA** 

Not regulated.

# 15. Regulatory information

# **US Federal Regulations**

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Hazard categories

Immediate (Acute) Health Hazards Acute toxicity (any route of exposure) Serious eye damage or eye irritation

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**



WARNING: This product can expose you to chemicals including, Ethylene oxide, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

1,4-Dioxane , which is [are] known to the State of California to cause cancer.

Ethylene glycol, which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

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

**Issue Date:** 10.07.2018

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**Revision Date:** 06.03.2018

Version #: 1.4

**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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