

1. Identification

Product name RENOFORM OS 290 HD

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

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

Contact Person: EHS Department E-mail: msds@fuchs.com

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

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin sensitizer Category 1
Specific Target Organ Toxicity - Category 3

Single Exposure

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.

May cause respiratory irritation.



Precautionary Statement

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

clothing must not be allowed out of the workplace. Wear protective

gloves/protective clothing/eye protection/face protection. Use only outdoors

or in a well-ventilated area. Avoid release to the environment.

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

breathing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see the specific response guidance provided

herein). Wash contaminated clothing before reuse. Collect spillage.

Storage: Store in well-ventilated place. Keep container tightly closed. Store locked

up.

Other hazards which do not result in GHS classification:

None.

Unknown toxicity Health

Acute toxicity, inhalation, dust 75.7305 %

or mist

Acute toxicity, inhalation, vapor 75.742497 %
Acute toxicity, dermal 68.908594 %
Acute toxicity, oral 25.228591 %

3. Composition/information on ingredients

Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Mineral oil	Confidential	15 - 40%
Sulfonate	Confidential	3 - 7%
Triethanolamine	102-71-6	1 - 5%
Sodium 2-mercaptobenzothiazole	2492-26-4	0.1 - 1%

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 or doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a Poison Center or doctor if you feel unwell.



Skin Contact: Immediately remove contaminated clothing and shoes and wash skin with

soap and plenty of water. If skin irritation occurs: Get medical

advice/attention.

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.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention as appropriate or if symptoms persist.

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 pressurize and possibly rupture. 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 appropriate for

industrial fires.

6. Accidental release measures

Personal precautions, protective equipment and

emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not handle 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. Do not contaminate water sources or

sewer. Prevent further leakage or spillage if safe to do so and protect against releases into the environment. Remediate as appropriate.

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.

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

Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Mineral oil - Mist.	STEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Triethanolamine	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2012)

Protective Measures: Use personal protective equipment as required.

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. Contaminated work clothing should not be allowed out of the workplace. Discard contaminated footwear that

cannot be cleaned. Avoid contact with skin, eyes, and clothing.



9. Physical and chemical properties

Appearance

Physical state: Liquid

Form: No data available.

Color: Amber

Odor:

Odor threshold:

PH:

No data available.

Flash Point:

265.56 °C (510.01 °F)

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 (%):

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

No data available.

Relative density: 1.15

Solubility(ies)

Solubility in water:
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: 370 mm2/s (40 °C, Measured)

10. Stability and reactivity

Reactivity: Not reactive during normal use.

Chemical Stability: No data available.

Possibility of Hazardous

Reactions:

None under normal conditions.

Conditions to Avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

MSDS US - R00000450484



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 ingested by accident. Ingestion may cause irritation and malaise.

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May cause an allergic skin reaction.

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

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 (): > 5000 mg/kg

Dermal

Product: ATEmix (): 2000 - 5000 mg/kg

Inhalation

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

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

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:

Liver Kidney

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.



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

recycling or disposal.

14. Transport information

This material is not subject to transport regulations.

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

Acute (Immediate)

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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

Issue Date: 15.05.2015

Revision Date: 11.05.2015

Version #: 1.0

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.