

SAFETY DATA SHEET

1. Identification

Product name	RENOFORM OS 781
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:	sds@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
Toxic to reproduction	Category 2

Label Elements

Hazard Symbol:



Signal Word:

Warning



Hazard Statement:	May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
Response:	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards which do not	None.

result in GHS classification:

Unknown toxicity - Health	
Acute toxicity, oral	31.92 %
Acute toxicity, dermal	33.14 %
Acute toxicity, inhalation, vapor	52.85 %
Acute toxicity, inhalation, dust or mist	53.23 %

3. Composition/information on ingredients

Hazardous Component(s):

Chemical name	CAS-No.	Concentration
aceites minerales	Confidential	25 - <50%
Dialkyl Polysulfide	Confidential	10 - <25%
Ethoxylated alcohol	Confidential	2.5 - <5%
Boric acid	10043-35-3	1 - <3%
Hexylene glycol	107-41-5	1 - <5%
Biocide	Confidential	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/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: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 if symptoms occur.5. Fire-fighting measuresNo unusual fire or explosion hazards noted.Suitable (and unsuitable) extinguishing mediaWater 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 and precautions for fire-fightersNo data available.Special protective equipment and precautions for fire-fightersSpecial protective equipment for fire-fighters:Firefighters must use standard protective equipment including flame retardant coat, heimet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.6. Accidental release measuresFirefighters			
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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 up:	Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.
Environmental Precautions:	Avoid release to the environment. 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 Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Provide adequate ventilation. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. 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. Store locked up.

8. Exposure controls/personal protection

Exposure Limits

Chemical name	Туре	Exposure Limit Values		Source
aceites minerales - Mist.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Boric acid - Inhalable fraction.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Boric acid - Inhalable fraction.	STEL		6 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Hexylene glycol - Vapor fraction	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended (03 2017)
Hexylene glycol - Aerosol, inhalable.	STEL		10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2017)
Hexylene glycol - Vapor fraction	STEL	50 ppm		US. ACGIH Threshold Limit Values, as amended (03 2017)

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:



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

Appearance	
Physical state:	liquid
Form:	No data available.
Color:	Amber
Odor:	Mild
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	> 100 °C (212 °F)
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.
Vapor density:	No data available.
Relative density:	0.9646
Solubility(ies)	
Solubility in water:	Soluble
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:	61.15 mm2/s (40 °C, Measured)
VOC:	19.26 % (Method 24)

10. Stability and 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. Contains a component which may release flammable substances, including trimethylpentene, by distillation in systems with solvent recovery. This may lead to accumulation in the solvent circuit.

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 physic Ingestion:	al, chemical and toxicological characteristics No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effe	ects	
Acute toxicity (list all possible routes of exposure)		
Oral Product:	ATEmix (): > 5000 mg/kg	
Dermal Product:	ATEmix (): > 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 Irrita Product:	tion No data available.
Respiratory or Skin Sensitizati Product:	on May cause an allergic skin reaction.
Carcinogenicity Product:	No data available.
IARC Monographs on the No carcinogenic component	e Evaluation of Carcinogenic Risks to Humans: nts identified
No carcinogenic component	egulated Substances (29 CFR 1910.1001-1050), as amended:
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child. A human study of occupationally exposed borate worker population showed no adverse reproductive effects. Animal studies indicate that boric acid reduces or inhibits sperm production, cause testicular atrophy, and when given to pregnant animals during gestation, may cause developmental changes. These feed studies were conducted under chronic exposure conditions leading to doses many times in excess of those that could occur through inhalation of dust in the occupational setting.
Specific Target Organ Toxicity Product:	r - Single Exposure No data available.
Specific Target Organ Toxicity Product:	 Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.



Other effects:	No data available.
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

DOT

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information

US Federal Regulations

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Respiratory or Skin Sensitization Reproductive toxicity

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations



US. California Proposition 65



This product can expose you to chemicals includingEthylene oxidewhich is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

Diethanolamine1,4-DioxanePropylene oxidewhich is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16.Other information, including date of preparation or last revisionIssue Date:02.12.2022Revision Date:29.11.2022Version #:1.4Further 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.