

1. Identification		
Product name		RENOFORM HFL 6549
Other means of identification		No data available.
Recommended use:		Metalworking fluid
Restrictions on use:		Industrial use only
Manufacturer/Importer/Suppl	ier/Distributor Informatio	n
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@fuchsus.com		
2. Hazard(s) identification		
Hazard Classification	Not classified	
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	No signal word.	
Hazard Statement:	not applicable	
Precautionary Statements	not applicable	
Other hazards which do not None. result in GHS classification:		
3. Composition/information on ingredients		



Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Ammonium hydroxide solution	1336-21-6	0.1 - 1%
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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/effect	ts, 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 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 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	S	
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 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.	
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
Ammonium hydroxide solution	STEL	35 ppm	US. ACGIH Threshold Limit Values (03 2012)
Ammonium hydroxide solution	TWA	25 ppm	US. ACGIH Threshold Limit Values (03 2012)
Ammonium hydroxide solution	PEL	50 ppm 35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

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. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state:	liquid		
Form:	No data available.		
Color:	Off-white		
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:	not applicable		
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:	1.01		
Solubility(ies)			
Solubility in water:	Emulsifiable 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:	3.5 mm2/s (40 °C)		



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 Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.			
	nhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
5	Skin Contact:	Prolonged skin contact may cause redness and irritation.	
E	Eye contact:	Eye contact is possible and should be avoided.	
Symptoms related to the physical, chemical and toxicological characteristics Ingestion: No data available.			
I	nhalation:	No data available.	
5	Skin Contact:	No data available.	
E	Eye contact:	No data available.	
Information on toxicological effects			
Acute toxicity (list all possible routes of exposure)			
C	Dral Product:	Not classified for acute toxicity based on available data.	
_	Dermal Product:	Not classified for acute toxicity based on available data.	
I	nhalation		



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 Irritati Product:	on No data available.		
Respiratory or Skin SensitizationProduct:No data available.			
Carcinogenicity Product:	No data available.		
IARC Monographs on the No carcinogenic component	Evaluation of Carcinogenic Risks to Humans: s 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 - Product:	•		
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 consideration	IS	
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) None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories None

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:	30.11.2016	
Revision Date:	30.11.2016	
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.	