SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: RENOCLEAN SUPER 844

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Industrial cleaning fluid
Recommended restrictions: 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
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

Acute toxicity (Oral)	Category 5
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, dermal	3 %
Acute toxicity, inhalation, vapor	17.01 %
Acute toxicity, inhalation, dust or mist	23 %

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement:
H303: May be harmful if swallowed.
H314: Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363: Wash contaminated clothing before reuse.
P321: Specific treatment (see supplemental first aid instructions on this label).
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/ physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Inorganic silicate compound	Trade Secret	5 - 10%
Nonylphenol ethoxylate	Trade Secret	5 - 10%
Sodium hydroxide	1310-73-2	3 - 7%
Chelating agent	Trade Secret	3 - 7%
Sodium carbonate	Trade Secret	3 - 7%
Lauryl Dimethyl Amine Oxide	1643-20-5	3 - 7%

* 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

Inhalation:	Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact:	Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. 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. Call a physician or poison control center immediately.
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

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:	Symptoms may be delayed.

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 fire-fighters

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. Ensure adequate ventilation.
For non-emergency personnel:	No data available.
For emergency responders:	No data available.
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:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Wash hands thoroughly after handling. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water. Do not get in eyes, on skin, on clothing.
Conditions for safe storage, including any incompatibilities:	Store locked up. 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	Type	Exposure Limit Values	Source
Sodium hydroxide	VLE-P	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls	No data available.

Individual protection measures, such as personal protective equipment

General information:	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.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
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:	liquid
Form:	No data available.
Color:	Blue
Odor:	Mild
Odor threshold:	No data available.
pH:	13.4
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.

Density:	No data available.
Relative density:	1.07
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:	No data available.

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:	Harmful if inhaled.
Skin Contact:	Causes severe skin burns.
Eye contact:	Causes serious eye damage.
Ingestion:	Harmful if swallowed.

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: ATEmix (): 2000 - 5000 mg/kg

Dermal

Product: ATEmix (): > 5000 mg/kg

Inhalation

Product:

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Sodium hydroxide	in vivo (Rabbit): Slightly irritating , 72 h Experimental result, Weight of Evidence study in vivo (Rabbit): Irritating , 24 h Experimental result, Weight of Evidence study Corrosive
Chelating agent	in vivo (Rabbit): Not irritant , 24 - 48 h Read-across from supporting substance (structural analogue or surrogate), Supporting study
Sodium carbonate	in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Sodium hydroxide	Corrosive Rabbit, 1 d: Mild irritant OECD GHS Rabbit, 1 d: Mild irritant OECD GHS Rabbit, 2 d: Mild irritant OECD GHS Rabbit, 1 h: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 4 d: Mild irritant OECD GHS Rabbit, 2 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 1 h: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 1 h: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 1 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 1 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification Rabbit, 3 d: Mild irritant OECD GHS Rabbit, 24 - 72 h: Irritating Rabbit, 24 - 72 h: Irritating Rabbit, 1 d: Mild irritant OECD GHS Rabbit, 1 h: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes 0.1 ml of 10% Sodium Hydroxide- GHS Classification and 0.1 ml of 0.5% Sodium Hydroxide- OECD Classification

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

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.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):

Inorganic silicate compound	LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 3,200 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 2,400 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 1,800 mg/l Mortality
Nonylphenol ethoxylate	LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1 - 1.8 mg/l Mortality LC 50 (Fish, 96 h): 41 - 47 mg/l
Sodium hydroxide	LC 50 (Bluegill (Lepomis macrochirus), 48 h): 99 mg/l LC 50 (Fish, 96 h): 125 mg/l
Chelating agent	LC 50 (Bluegill (Lepomis macrochirus), 96 h): 472 - 500 mg/l Mortality

Aquatic Invertebrates
Product: No data available.

Specified substance(s):

Inorganic silicate compound	LC 50 (Water flea (Daphnia magna), 24 h): 247 mg/l Mortality LC 50 (Water flea (Daphnia magna), 96 h): 216 mg/l Mortality
Nonylphenol ethoxylate	LC 50 (Spionid polychaete (Scolelepis fuliginosa), 48 h): 2.5 mg/l Mortality
Sodium hydroxide	EC50 (Water Flea, 48 h): 34.59 - 47.13 mg/l
Chelating agent	EC50 (Water flea (Daphnia magna), 24 h): 570 - 640 mg/l Mortality

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.

Specified substance(s):

Lauryl Dimethyl Amine Oxide	Log Kow: 4.67

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Inorganic silicate compound	No data available.
Nonylphenol ethoxylate	No data available.
Sodium hydroxide	No data available.
Chelating agent	No data available.
Sodium carbonate	No data available.
Lauryl Dimethyl Amine Oxide	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.

14. Transport information

DOT

Special precautions for user:	Not Regulated.

IATA

UN number or ID number:	UN 1824
Proper Shipping Name:	Sodium hydroxide solution
Transport Hazard Class(es):	
Class:	8
Label(s):	8
Packing Group:	II
Passenger and cargo aircraft :	851
Excepted quantity	PIN for exception quantity
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not Regulated.
Cargo aircraft only:	Allowed. 855

IMDG

UN number or ID number:	UN 1824
UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION
Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Limited quantity	1.00L
Excepted quantity	PIN for exception quantity
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not Regulated.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

None present or none present in regulated quantities.

Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances

Not applicable

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

none

Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

Not applicable

Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)

Not applicable

Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)

Not applicable

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

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Revision Information:	02/26/2025**:** ARGHS_MX
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.