SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: RENOFORM OS 7250

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Metalworking 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

Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, oral	45.01 %
Acute toxicity, dermal	49.01 %
Acute toxicity, inhalation, vapor	89.91 %
Acute toxicity, inhalation, dust or mist	78.88 %

Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Unknown toxicity - Environment

Acute hazards to the aquatic environment	43.2 %
Chronic hazards to the aquatic environment	66.58 %

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement:
H316: Causes mild skin irritation.
H318: Causes serious eye damage.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:
P273: Avoid release to the environment.
P280: Wear eye protection/face protection.

Response:
P332+P313: If skin irritation occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P391: Collect spillage.

Disposal:
P501: 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.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Alkanes, C14-16, chloro	Trade Secret	30 - 60%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15 - 40%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 30%
Hydrocarbon waxes, oxidized	Trade Secret	3 - 7%
Nonylphenol ethoxylate	Trade Secret	3 - 7%

Boric Acid	10043-35-3	1 - 5%
Trade Secret	Trade Secret	0.5 - 5%
Triazine compound	Trade Secret	0.1 - 1%
Biocide	Trade Secret	0.1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

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

Skin Contact: If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water.

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 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

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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
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. Avoid release to the environment.

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 Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Do not get in eyes. 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. Avoid contact with eyes, skin, and clothing.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Keep container tightly closed. Store locked up. Store in a well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source

Distillates (petroleum), hydrotreated heavy naphthenic	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Boric Acid - Inhalable fraction.	VLE-PPT	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-CT	6 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: Brown
Odor: Mild
Odor threshold: No data available.
pH: 8.98

Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	115.56 °C
Flash Point:	154 °C
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:	1.0791
Solubility(ies)	
Solubility in water:	Dispersible
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. May cause an allergic skin reaction.

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 (): > 5000 mg/kg

Dermal
Product: ATEmix (): > 5000 mg/kg

Inhalation
Product: ATEmix (, 4 h): > 20 mg/l Vapour

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	in vivo (Rabbit): Not irritant Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	in vivo (Rabbit): Not irritant Experimental result, Key study
Hydrocarbon waxes, oxidized	in vivo (Rabbit): Not irritant Experimental result, Supporting study
Boric Acid	in vivo (Rabbit): Not irritant Experimental result, Supporting study
Trade Secret	in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Key study in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Key study in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Key study in vivo (Rabbit): Not irritant Experimental result, Key study in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Key study

Triazine compound	Not irritating in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 hrs: Not irritating EU
Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 hrs: Not irritating EU
Trade Secret	Rabbit, 1 hrs: Irritating EU Rabbit, 1 - 168 hrs: Irritating EU Rabbit, 24 - 72 hrs: Not irritating EU Rabbit, 24 - 72 hrs: Not irritating EU Rabbit, 1 hrs: Irritating EU Rabbit, 24 - 72 hrs: Irritating EU Rabbit, 72 hrs: Irritating EU Rabbit, 24 - 72 hrs: Not irritating EU Rabbit, 48 hrs: Irritating EU Rabbit, 24 hrs: Irritating EU Rabbit, 24 - 72 hrs: Not irritating EU

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Triazine compound	Skin sensitization:, in vivo (Guinea pig): May cause an allergic skin reaction.

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.

Specified substance(s):

Boric Acid	Suspected of damaging fertility or the unborn child.

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):

Distillates (petroleum), hydrotreated heavy naphthenic	LC 50 (Fish, 96 h): > 100 mg/l
Hydrocarbon waxes, oxidized	LC 50 (Rainbow Trout, 4 d): > 100 mg/l
Nonylphenol ethoxylate	LC 50 (Fathead Minnow, 96 h): 1.2 - 9.3 mg/l LC 50 (Fathead Minnow, 96 h): 3.8 - 6.2 mg/l
Boric Acid	LC 50 (Rainbow Trout, 24 d): 150.0 mg/l LC 50 (Goldfish, 3 d): 178 mg/l
Triazine compound	LC 50 (Fish, 96 h): 10 - 100 mg/l
Biocide	LC 50 (Rainbow Trout, 96 h): 0.1 mg/l LC 50 (Bluegill (Lepomis macrochirus), 96 h): 2.3 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC50 (Shrimp (Callianassa australiensis), 48 h): > 100 mg/l
Hydrocarbon waxes, oxidized	EC50 (Daphnia, 2 d): > 100 mg/l
Nonylphenol ethoxylate	EC50 (Daphnia, 48 h): 1.6 - 10 mg/l

	EC50 (Daphnia, 48 h): 9.3 - 21.4 mg/l
Boric Acid	LC 50 (Daphnids (no species mentioned), 48 h): 133 mg/l
Triazine compound	EC50 (Daphnia, 48 h): 10 - 100 mg/l
Biocide	EC50 (Daphnia, 48 h): 3.23 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC50 (Daphnia, 14 d): 0.058 mg/l EC50 (21 d): 0.054 mg/l EC50 (2 d): > 10,000 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l
Hydrocarbon waxes, oxidized	EC50 (Algae (Pseudokirchneriella subcapitata), 3 d): > 100 mg/l
Boric Acid	LC 50 (Waterweed (Elodea canadensis), 21 d): 5 mg/l Mortality

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):

Trade Secret	Log Kow: > 3 - 6.2 Yes Experimental result, Key study Log Kow: > 2.9 - < 5.7 30 °C Yes Read-across based on grouping of substances (category approach), Key study Log Kow: > 2.5 - < 7.6 Yes Read-across based on grouping of substances (category approach), Supporting study Log Kow: > 1.9 - 7.7 Yes Experimental result, Key study Log Kow: > 0.9 - < 6.6 30 °C Yes Read-across based on grouping of substances (category approach), Key study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Alkanes, C14-16, chloro	No data available.
Distillates (petroleum), hydrotreated heavy naphthenic	No data available.
Distillates (petroleum), hydrotreated heavy naphthenic	No data available.
Hydrocarbon waxes, oxidized	No data available.
Nonylphenol ethoxylate	No data available.
Boric Acid	No data available.
Trade Secret	No data available.
Triazine compound	No data available.
Biocide	No data available.

Other adverse effects: Very toxic to aquatic life with long lasting 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.

IATA
Not regulated.

IMDG
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

Issue Date:	07/07/2020
Revision Information:	07/07/2020**:** ARGHS_MX
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.