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SAFETY DATA SHEET

1. Identification

Product name RENOFORM SVO L

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

Physical Hazards

Flammable liquids Category 3

Health Hazards

Acute toxicity (Dermal) Category 4

Acute toxicity (Inhalation - vapor) Category 3

Aspiration Hazard Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger



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PEOPLE.

SAFETY DATA SHEET

Hazard Statement: Flammable liquid and vapor.
Toxic if inhaled.
Harmful in contact with skin.
May be fatal if swallowed and enters airways.

Precautionary Statement

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Call a POISON CENTER/doctor. Specific treatment (see the specific response guidance provided herein). Wash contaminated clothing before reuse. In case of fire: Use CO₂, dry chemical, or foam to extinguish.

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

Disposal: 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.

Other hazards which do not result in GHS classification: None.

Unknown toxicity Health

| | |
|--|-------|
| Acute toxicity, inhalation, dust or mist | 100 % |
| Acute toxicity, inhalation, vapor | 2.3 % |
| Acute toxicity, dermal | 0 % |
| Acute toxicity, oral | 0 % |

3. Composition/information on ingredients

Hazardous Component(s):

| Chemical name | CAS-No. | Concentration |
|-----------------|--------------|---------------|
| Mineral spirits | Confidential | 60 - 100% |



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PEOPLE.

SAFETY DATA SHEET

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

4. First-aid measures

| | |
|----------------------|---|
| Ingestion: | Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Inhalation: | Call a POISON CENTER/doctor/... If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen. |
| Skin Contact: | Wash skin thoroughly with soap and water. Call a Poison Center or doctor if you feel unwell. Take off immediately all contaminated clothing. |
| Eye contact: | Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream as this will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

SAFETY DATA SHEET

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:

Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Methods and material for containment and cleaning up:

Absorb spill with an inert material, then place in a container for safe and proper disposal. Dike far ahead of larger spill for later recovery and disposal. Eliminate all ignition sources if safe to do so.

Notification Procedures:

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Environmental Precautions:

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

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store locked up. Store in a well-ventilated place. Store in a cool place.



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SAFETY DATA SHEET

8. Exposure controls/personal protection

Exposure Limits

| Chemical name | type | Exposure Limit Values | Source |
|-----------------|------|------------------------------------|---|
| Mineral spirits | PEL | 100 ppm 400 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |

Protective Measures:

Provide easy access to water supply and eye wash facilities. Good general ventilation should be provided. 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. Use explosion-proof ventilation equipment.

Respiratory Protection:

Respirator type: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

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:

Avoid breathing dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices. Avoid contact with skin. When using do not smoke.

9. Physical and chemical properties

Appearance

| | |
|--|----------------------|
| Physical state: | Liquid |
| Form: | No data available. |
| Color: | Yellow |
| Odor: | Mild petroleum |
| 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: | 54.44 °C (129.99 °F) |



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SAFETY DATA SHEET

| | |
|---|-----------------------------------|
| 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: | 0.76 |
| Solubility(ies) | |
| Solubility in water: | Insoluble |
| 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: | < 20.5 mm ² /s (40 °C) |
| Other information | |
| VOC: | 746.71 g/l |

10. Stability and reactivity

| | |
|-------------------------------------|---|
| Reactivity: | No data available. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of Hazardous Reactions: | None under normal conditions. |
| Conditions to Avoid: | Heat, sparks, flames. |
| Incompatible Materials: | No data available. |
| Hazardous Decomposition Products: | No data available. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------|--|
| Ingestion: | May be ingested by accident. Ingestion may cause irritation and malaise. |
| Inhalation: | Toxic if inhaled. |
| Skin Contact: | Harmful in contact with skin. |



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PEOPLE.

SAFETY DATA SHEET

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 (): 2000 - 5000 mg/kg

Dermal

Product: ATEmix (): 1000 - 2000 mg/kg

Inhalation

Product: ATEmix (, 4 h): 2 - 10 mg/l Vapour

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



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PEOPLE.

SAFETY DATA SHEET

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: May be fatal if swallowed and enters airways.

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.

Contaminated Packaging: No data available.

14. Transport information

DOT

| | |
|----------------------------|--|
| UN Number: | UN 1993 |
| UN Proper Shipping Name: | Flammable liquids, n.o.s.(Mineral Spirits) |
| Transport Hazard Class(es) | |
| Class: | 3 |
| Label(s): | 3 |
| Packing Group: | III |
| Marine Pollutant: | No |

Special precautions for user: —



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TECHNOLOGY.
PEOPLE.

SAFETY DATA SHEET

IMDG

| | |
|-------------------------------|--|
| UN Number: | UN 1993 |
| UN Proper Shipping Name: | FLAMMABLE LIQUID, N.O.S.(Naptha solvent) |
| Transport Hazard Class(es) | |
| Class: | 3 |
| Label(s): | 3 |
| EmS No.: | F-E, S-E |
| Packing Group: | III |
| Marine Pollutant: | Not regulated. |
| Special precautions for user: | — |
| Cargo aircraft only: | Allowed. |

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)

Fire

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No component is regulated by CA Prop 65.

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

Issue Date: 15.05.2015

Revision Date: 15.05.2015

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.