

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Silicone Lubricant  
**Recommended use** General purpose silicone-based lubricant  
**Recommended restrictions** None known  
**Manufacturer**  
**Company name** Rexford Rand Corporation  
**Address** P.O. Box 9005 Michigan City, IN 46360  
**Telephone**  
**General Information** 219-872-5561  
**Technical Assistance** 800-564-1151  
**Customer Service** 800-654-1151

## 2. Hazard(s) identification

<b>Physical hazards</b> Flammable liquids	Category 1
<b>Health hazards</b> Skin corrosion/irritation	Category 1
Reproductive toxicity	Category 1
Specific target organ toxicity, single exposure narcotic effects	Category 2
Specific target organ toxicity, repeated exposure	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment, acute hazard	Category 2
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard Category 2
<b>OSHA defined hazards</b>	Not classified.



### Label elements

#### Signal word

Warning

#### Hazard statement

Combustible liquid and vapor. May be harmful or fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system, upper respiratory tract, eyes) through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

#### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.

#### Storage

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

#### Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

### Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor.

## 3. Composition/information on ingredients

### Mixtures

#### Chemical name Common name and synonyms CAS number %

White mineral oil 8042-47-5

Polydimethylsiloxane 63148-62-9

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact** Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
- Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.

### Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

### Suitable extinguishing

**media** Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**General fire hazards** flammable liquid and vapor.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid contact during pregnancy/while nursing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Avoid spark promoters. Eliminate sources of ignition. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

## 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

#### Components Type Value

US. ACGIH Threshold Limit Values

#### Components Type Value

Mineral (CAS STEL 1000 ppm)

TWA 500 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Mineral Oil CAS 8042-47-5

#### Biological limit values

ACGIH Biological Exposure Indices

Components Value Determinant Specimen Sampling Time

\* - For sampling details, please see the source document.

### Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Mineral oil

Can be absorbed through the skin.

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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 wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection Hand protection** Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.  
**Form** Liquid.  
**Color** Clear. Water-white.  
**Odor** Mild solvent.  
**Odor threshold** Not available.  
**pH** Not available.  
**Melting point/freezing point** -244.7 °F (-153.7 °C) estimated

**Initial boiling point and boiling range** 118.4 °F (48 °C) estimated

**Flash point** < 0 °F (< -17.8 °C) Tag Closed Cup

**Evaporation rate** Slow.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit – lower (%)** 1 % estimated

**Flammability limit – upper (%)** 8 % estimated

**Vapor pressure** 294.2 hPa estimated

**Vapor density** > 1 (air = 1)

**Relative density** 0.66

**Solubility (water)** Negligible.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 437 °F (225 °C) estimated

**Decomposition temperature** Not available.

**Viscosity (kinematic)** Not available.

**Percent volatile** 97 % estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents. Chlorine.

**Hazardous decomposition products** Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion** May be fatal if swallowed and enters airways.

**Inhalation** May cause damage to organs by inhalation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Skin contact** Causes skin irritation.

**Eye contact** Direct contact with eyes may cause temporary irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects.

### Product Species Test Results

Silicone

LD50 Rabbit

*Dermal*

**Acute**

2486.1321 mg/kg estimated

LC50 Rat

*Inhalation*

608.9773 mg/l, 4 hours estimated

LD50 Rat

*Oral*

14860.3066 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

5 / 9

Material name Silicone

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

May cause damage to organs (central nervous system, upper respiratory tract, eyes) through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure.

Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

### Product Species Test Results

Silicone

**Aquatic** Fish LC50 Fish 361.0246 mg/l, 96 hours estimated

### Components Species Test Results

**Aquatic**

\* Estimates for product may be based on additional component data not shown.

Polydimethylsiloxane (CAS 63148-62-9)

**Aquatic** Fish LC50 Channel catfish (*Ictalurus punctatus*) 2.36 - 4.15 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

### Disposal of waste from residues / unused products

If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

**Hazardous waste code** D001: Waste Combustible material with a flash point >140 F

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT

UN number

UN proper shipping name ORM-D

Transport hazard class(es)

Subsidiary risk -

Label(s)

Packing group II

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** None

**Packaging exceptions** None

**Packaging non bulk** None

**Packaging bulk** None

IATA

UN number

UN proper shipping name ORM-D

Class

Transport hazard class(es)

Subsidiary risk -

Packing group II

**Environmental hazards** No.

**ERG Code** 3H

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Passenger and cargo aircraft** Allowed

**Other information**

**Cargo aircraft only** Allowed.

IMDG

UN number

UN proper shipping name Consumer Commodity ORM-D

Class Transport hazard class(es)

5/7

**Subsidiary risk -**

**Packing group II**

**Marine pollutant No.**

**Environmental hazards**

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

## **15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

White Mineral Oil 8042-47-5

**CERCLA Hazardous Substance List (40 CFR 302.4)**

White Mineral Oil 8042-47-5

**CERCLA Hazardous Substances: Reportable quantity**

White Mineral Oil 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

**(SDWA)**

Not regulated.

**Food and Drug**

**Administration (FDA)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312**

**Hazard categories**

Immediate Hazard - No

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely**

**hazardous substance**

No

**US state regulations**

**US. New Jersey Worker and Community Right-to-Know Act**

**S. Massachusetts RTK - Substance List**

**US. Pennsylvania Worker and Community Right-to-Know Law**

**US. Rhode Island RTK**

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Volatile organic compounds (VOC) regulations**

EPA

**VOC content (40 CFR**

**51.100(s))**

97 %

**Consumer products**

**(40 CFR 59, Subpt. C)**

Not regulated

**State**

**Consumer products** This product is not for retail sale. It is for use in the manufacturing process only.

**VOC content (CA) 97 %**

**VOC content (OTC) 97 %**

**International inventories**

**Country(s) or region Inventory name On inventory (yes/no)\***

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes  
Canada Non-Domestic Substances List (NDSL) No  
China Inventory of Existing Chemical Substances in China (IECSC) Yes  
Europe European Inventory of Existing Commercial Chemical  
Substances (EINECS) No  
Europe European List of Notified Chemical Substances (ELINCS) No  
Japan Inventory of Existing and New Chemical Substances (ENCS) No  
Korea Existing Chemicals List (ECL) yes  
New Zealand New Zealand Inventor yes  
Philippines Philippine Inventory of Chemicals and Chemical Substances  
(PICCS)

**Country(s) or region Inventory name On inventory (yes/no)\***

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date 04-01-2016

Prepared by T Williams

Version # 01

Further information CRC # 521A/C

HMIS® ratings Health: 2\*

Flammability: 1

Physical hazard: 0

Personal protection: B

NFPA ratings Health: 1

Flammability: 1

Instability: 0

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of our knowledge or obtained from sources believed by us to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or Rexford Rand Corp