

Section 1-Chemical Product and Company Identification

Company Information:

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Product Information:

Product: Low Consistency Silicone Valve and O-ring Lubricant
C.A.S. Number: Not Applicable
Recommended use: Lubricant (Not for medical purposes)

Section 2-Hazard Identification

Classification: Not hazardous

Labeling: Symbol: None

Signal Word: None

Hazard statements: Not Hazardous

Precautionary Statements:

Use personal protective equipment as required. Wear safety glasses and gloves. Avoid contact with eyes.
Non-flammable or combustible, but may burn if involved in a fire.

Section 3-Composition and Information on Ingredients

Hazardous Ingredients:

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>Wt. %</u>	<u>Impurities</u>
Dimethyl Siloxanes and Silicones (Methyl Silicon)	63148-62-9	90-94	No information provided by manufacturer
Silicon dioxide, Amorphous (Amorphous fumed silica)	112945-52-5	6-10	Less than 1%, not classifiable

Section 4 – First Aid Measures

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. Obtain medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms persist, get medical attention. No need for first aid is anticipated.

Inhalation: If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

Ingestion: If swallowed, do not induce vomiting. If irritation or discomfort occurs, obtain medical assistance.

Section 5- Firefighting Measures

Auto ignition Temperature: >300°C

Flash point: >300°C

Flammable Limits (LEL): Not determined

Flammable Limits (UEL): Not determined

Suitable Extinguishing Media: On large fires used dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical, or water spray. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None.

Specific hazards in case of fire: Decomposes on heating and can release formaldehyde. Avoid reaction with oxidizers.

Special protective equipment and precautions for fire fighters:

No acute hazard. Move container from fire area, if possible. Avoid breathing vapors or dusts. Keep upwind. Use full firefighting gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape air supply. Use any self contained breathing apparatus with a full face piece. Alert fire brigade and indicate hazard location. Wear breathing apparatus plus protective clothing. Cool fire exposed containers with water spray from a protected location. Do not approach containers suspected to be hot. If safe to do so, remove containers from path of fire.

Section 6 – Accidental Release Measures

Personal precautions: Use appropriate personal protection. (See SECTION 8)

Environmental precautions:

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for material containment and cleaning up:

Observe precautions from other sections. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent. Seal the container.

Section 7 – Handling and Storage

Precautions for safe handling:

Avoid contact with skin, inhalation of mist, or ingestion. See section 8 for personal protection equipment. Practice good personal hygiene to prevent accidental ingestion after handling. Properly dispose of clothing that cannot be decontaminated.

Conditions for safe storage, including any incompatibilities:

Store away from oxidizing materials. Store product in a closed container located in a dry area. Do not store in open, inadequate, or mislabeled packaging. Check that containers are clearly labeled. Use metal cans, metal drums, plastic, or lined fiber containers. Keep away from heat and flame.

Section 8- Exposure Controls and Personal Protection

Control Parameters: Under most handling conditions, this product will not generate mist or dust.

Engineering Controls: In most conditions, no special local ventilation is needed. General ventilation recommended. If the product is heated above 150°C or atomized ventilation should be used.

Personal Protective Equipment (PPE):

Eyes: Safety glasses recommended.

Skin: Impermeable gloves should be worn. Product is compatible with most elastomers.

Inhalation: No respiratory protection required under most conditions. If concentrations exceed exposure limits, approved respiratory equipment must be used.

Section 9- Physical/Chemical Characteristics

Physical state: Solid. Liquid may separate from product.

Color: Off-white, translucent

Odor: Mild

Odor Threshold: Not available

pH Value: Not applicable

Melting Point: Decomposes

Flash Point: >300°C COC (Base oil)

Freezing Point: Becomes very stiff with decreasing temperature around -60°C

Initial Boiling Point: >200°C

Flammability (solid, gas): Not applicable

Evaporation rate: Not available

Explosion limits: Not available

Vapor pressure: Negligible at 20°C

Vapor density: Not available

Solubility: Insoluble in water at 20°C

Partition coefficient: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Begins to decompose at 150°C.

Section 10- Stability and Reactivity

Chemical stability: Stable under ambient temperatures and pressures

Possibility of hazardous reactions: May react with air under very high pressure. Otherwise will not react or polymerize.

Conditions to avoid: No specific conditions to avoid have been identified.

Materials to avoid: Oxidizers

Hazardous decomposition products: Decomposes on heating and produces formaldehyde, silicone dioxide, and incompletely burned carbon compounds.

Section 11- Toxicological Information

Acute Toxicity: Not Toxic

Dimethyl silicone LD50 (rat) > 10,000 mg/kg

Skin Corrosion/Irritation: Not irritating/not corrosive to the skin.

Dimethyl silicone LD50 (rabbit) > 2,000 mg/kg

Serious Eye Damage/Irritation: Possible irritant / not corrosive to the eyes.

Respiratory/Skin sensitization: Not sensitizing to the skin.

Germ-cell Mutagenicity: Not a germ-cell mutagen.

Carcinogenicity: Not a carcinogen.

Reproductive Toxicity: There are currently no reliable scientific data available indicating adverse effects on reproduction or fertility.

Aspiration Hazard: Not applicable (not an aerosol/mist).

Section 12 - Ecological Information

Toxicity:

<u>Chemical Name</u>	<u>Toxicity to fish</u>	<u>Toxicity to Algae</u>	<u>other aquatic invertebrates</u>
Dimethyl Silicone 63148-62-9	-----	-----	<i>Daphnia Magna</i> 48h:LC50 >10,000 mg/L
Silica, Amorphous 112945-52-5	<i>Brachydanio rerio</i> 96h:LC50 >10,000 mg/L		<i>Daphnia Magna</i> 24h:LC50 >10,000 mg/L

Persistence and degradability: In soil, siloxanes are degraded.

Bioaccumulative potential: Not expected to bioaccumulate.

Mobility in soil: Siloxanes are removed from water by sedimentation or binding to sewage sludge. Silica is not mobile.

Section 13 – Disposal Considerations

Waste treatment methods: Waste (substance and container material) shall be recycled/recovered or disposed of as applicable and in accordance with community (EU) and local legislation. Recycle wherever possible. Consult state land waste management authority for disposal. Bury at an approved site. Recycle containers if possible, or dispose of in an authorized landfill.

According to the European Waste Catalogue: Waste Codes are not product specific but application specific. Waste Codes should be assigned by the user based on the application in which the product is used.

For USA Disposal: Waste must be disposed of in accordance with federal, state, and local environmental control regulations

Section 14 – Transport Information

Class or Type: US DOT, IMO, ADR, RID, ADN, IMDG, and IATA: Non-hazardous

Section 15- Hazard Classification

Safety, health and environmental regulations/legislation specific for the mixture:

Other Information:

U. S. Regulatory information:

TSCA Inventory Status: All ingredients listed or exempt
TSCA 12 (b) Export Notification: Not listed
CERCLA Section 103 (40 CFR 302.4): N
SARA Section 302 (40 CFR 355.30): N
SARA Section 304 (40 CFR 355.40): N
SARA Section 313 (40 CFR 372.65): N
OSHA Process Safety (29 CFR 1910.119): N
SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21) –
Acute Hazard: N
Chronic Hazard: N
Fire Hazard: N
Reactivity Hazard: N
Sudden Release Hazard: N

State Regulations: Not on California Proposition 65 list. Does not contain any contaminants or by-products known to the State of California to cause cancer or reproductive toxicity.

Note: There are no known safety, health or environmental restrictions or prohibitions in any country where this product is produced, imported or marketed.

Chemical Inventories:

DSL (Canada): All ingredients listed or exempt
IECSC (Peoples Republic of China): All ingredients listed or exempt
TSCA (United States of America): All ingredients listed or exempt

Section 16 – Other Information

NFPA Hazard Classification:

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency personnel to address the hazards that are presented by short-term, acute exposure to material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification:

Health: 1 Flammability: 1 Reactivity: 0 Protection: B (See PPE section)

Hazardous Material Identification System (HMIS) hazard ratings are designed to inform employees of chemical hazards in the workplace. The ratings are based on inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations.

Prepared by:

PremierRepak, Inc.

<http://premierrepak.com/>

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. The information on this safety data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the user's responsibility. PremierRepak specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of PremierRepak products.