

Section 1 - Chemical Product and Company Identification

1. Product identifier:

Product: High Consistency Silicone Valve and O-Ring Lubricant PR 5501

C.A.S. Number: Not Applicable

Alternate Names: None

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Recommended use: Lubricant (not for medical purposes)

1.3 Details of the supplier of the safety data sheet:

Company Name:

Premier Repak Inc.
8351 W. 185th Street
Tinley Park, IL 60487
www.premierrepak.com

Phone: (708) 444-2688

Fax: (708) 429-4280

Emergency:

InfoTrac 24-hour Emergency Phone Number: 1 (800) 535-5053

InfoTrac Contract Number: 105384

Section 2 - Classifications

2.1. Classification of the substance or mixture:

GHS Hazard Classification: Not hazardous

2.2. Label elements:

Signal Word: None

GHS Pictogram: None

Hazard Statements: None

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

3.1 Mixtures:

Chemical Identity: Dimethyl siloxanes and silicones, $\geq 60 - \leq 95\%$ (weight)

CAS Number: 63148-62-9

Chemical Identity: Boric Acid, $\geq 0.001 - < 0.20\%$ (weight)

CAS Number: 10043-35-3

Chemical Identity: Silica, $\geq 1 - < 10\%$ (weight)

CAS Number: 7631-86-9

Section 4 – First Aid Measures

4.1. Description of first aid measures:

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

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

Skin Contact: In case of contact, immediately flush skin with soap and plenty of water. If skin irritation persists, get medical attention. Wash clothing before reuse.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed:

See section 2 for more information.

4.3. Indication of any immediate medical attention and special treatment needed:

Notes to physician: Treat symptomatically and supportively.

Section 5 – Firefighting Measures

5.1 Extinguishing media:

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.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Decomposes on heating and can release formaldehyde.
Avoid reaction with oxidizers.

5.3 Advice for fire-fighters:

Special protective equipment and precautions for fire fighters:

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. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. If safe to do so, remove containers from path of fire.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. 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. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up:

Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent such as bentonite, vermiculite, or commercially available inorganic absorbent material. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

6.4 Reference to other sections:

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7- Handling and Storage

7.1 Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety practice. See section 8 for personal protection equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Properly dispose of clothing that cannot be decontaminated.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions 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. Store in accordance with the particular national regulations.

Packaging materials: Use metal cans, metal drums, and plastic, or lined fiber containers.

Requirements for storage rooms and vessels: Keep away from heat and flame. Do not store with the following product types: Strong oxidizing agents, acids, reducing agent

Hints on storage assembly: No information available

Further information on storage conditions: No information available

7.3 Specific end uses:

Recommendations: No information available

Specific end uses: No information available

Section 8 – Exposure Controls and Personal Protection

8.1 Control Parameters:

Under most handling conditions, this product will not generate mist or dust. Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

8.2 Exposure controls:

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/Face: Safety glasses recommended.

Skin:

Body: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear protective clothing. Wash contaminated clothing before re-use

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Hand: Impervious gloves. Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Inhalation: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using, do not eat, drink or smoke. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Section 9 – Physical/Chemical Characteristics

9.1 Information on basic physical and chemical properties:

Physical state: Solid. Grease. Liquid may separate from product.	
Color: White to Off white, translucent	Odor: Mild
Odor Threshold: Not available	pH Value: Not applicable
Melting Point: Not available	Evaporation rate: Not available
Initial Boiling Point and Boiling Range: >200°C	
Flash Point: > 93°C / 199°F	
Flammability (solid, gas): Not applicable	Explosion limits: Not available
Lower Flammable Limits (LEL): Not determined	
Upper Flammable Limits (UEL): Not determined	
Vapor pressure: Negligible at 20°C	Vapor density: >1
Auto Ignition Temperature: >300°C	Relative Density: 1.03
Partition coefficient: n-octanol/water: Not determined	
Auto-ignition temperature: Not available	Solubility: Not available
Decomposition temperature: Begins to decompose at 150°C.	
Freezing Point: Becomes very stiff with decreasing temperature around -60°C.	
Viscosity: Not available	
Oxidizing Properties: The substance or mixture is not classified as oxidizing.	

Section 10 – Stability and Reactivity

10.1 Reactivity: Not classified as a reactivity hazard.

10.2 Chemical stability: Stable under ambient temperatures and pressures.

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

10.4 Conditions to avoid: No specific conditions to avoid have been identified. Excessive heat.

10.5 Incompatible materials: Oxidizing Agents, Acids, Reducing Agent.

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

Section 11 – Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

Dimethyl Siloxane, Poly- CAS: 63148-62-9:

Oral: LD50 >17g/kg (rat)

Dermal: LD50 >2g/kg (rabbit)

Skin corrosion/irritation: Not classified based on available information.
Not irritating/not corrosive to the skin.

Serious eye damage/eye irritation: Not classified based on available information.
Possible irritant/not corrosive to the eyes.

Respiratory Sensitization: Not classified based on available information.

Skin Sensitization: Not classified based on available information.
May cause an allergic skin reaction.

Germ-cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.
There are currently no reliable scientific data available indicating adverse effects on reproduction or fertility.

Aspiration Hazard: Not classified based on available information.

Specific Target Organ Systemic Toxicity (Single Exposure): Not classified based on available information. Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure): Not classified based on available information. Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Section 12 – Ecological Information

12.1 Toxicity:

Aquatic toxicity:

99.92% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Dimethyl Siloxane, Poly- CAS: 63148-62-9:

Invertebrates: *Daphnia magna*: 48h-LC50 >10,000 mg/L

Amorphous silica CAS: 7631-86-9:

Invertebrates: *Daphnia magna*: 24h-LC50 >10,000 mg/L

Fish: *Brachydanio rerio*: 96h-LC50 >10,000 mg/L

12.2 Persistence and degradability: In soil, siloxanes are degraded.

12.3 Bioaccumulative potential: Not expected to bioaccumulate.

12.4 Mobility in soil: Siloxanes are removed from water by sedimentation or binding to sewage sludge.

Silica is not mobile.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other Adverse Effects: No data available.

Section 13 – Disposal Considerations

13.1 Waste treatment methods:

Waste (substance and container material) shall be recycled/recovered or disposed of as applicable and in accordance with local, state and federal regulations.

Resource Conservation and Recovery Act (RCRA):

This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Waste from residues: Dispose of in accordance with local regulations.

Additional information:

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: Not a dangerous good
(Non-hazardous)

Section 15 – Hazard Classification

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

U. S. Regulatory information:

CERCLA Section 103 (40 CFR 302.4):

<u>Component Name</u>	<u>CAS Number</u>	<u>Component RQ (lbs)</u>	<u>Calculated product RQ (lbs)</u>
NONE			

SARA (Superfund Amendments and Reauthorization Act):

Section 302 (40 CFR 355.30):

<u>Chemical Name</u>	<u>CAS Number</u>
NONE	

Section 304 (40 CFR 355.40):

<u>Chemical Name</u>	<u>CAS Number</u>
NONE	

Section 313 (40 CFR 372.65):

<u>Chemical Name</u>	<u>CAS Number</u>
NONE	

Sections 311/312 (40 CFR 370.21):

Acute Hazard: No
Chronic Hazard: No
Fire Hazard: No
Reactivity Hazard: No
Sudden Release Hazard: No

TSCA Inventory Status: All ingredients listed or exempt

TSCA 12 (b) Export Notification: Not listed

OSHA Process Safety (29 CFR 1910.119): N

State Regulations:

California:

Proposition 65 California Safe Drinking Water and Toxic Enforcement Act:

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This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Component Name CAS Number
NONE

State Right-To-Know:

Component Weight % State
NONE

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. All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL)

EINECS (European Union): All ingredients listed or exempt

REACH (European Union): All ingredients (pre-)registered or exempt

ENCS/ISHL (Japan): All ingredients listed or exempt

IECSC (China): All ingredients listed or exempt

KECI (Korea): All ingredients listed, exempt or notified

AICS (Australia): All ingredients listed or exempt

PICCS (Philippines): 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.

HMIS and NFPA Classification:

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

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Full text of other abbreviations:

AICS = Australian Inventory of Chemical Substances **ASTM** = American Society for the Testing of Materials **bw** = body weight **CERCLA** = Comprehensive Environmental Response, Compensation, and Liability Act **CMR** = Carcinogen, Mutagen or Reproductive Toxicant **DIN** = Standard of the German Institute for Standardization **DOT** = Department of Transportation **DSL** = Domestic Substances List (Canada) **ECx** = Concentration associated with x% response **EHS** = Extremely Hazardous Substance **ELx** = Loading rate associated with x% response **EmS** = Emergency Schedule **ENCS** = Existing and New Chemical Substances (Japan) **ErCx** = Concentration associated with x% growth rate response **ERG** = Emergency Response Guide **GHS** = Global Harmonization System **GLP** = Good Laboratory Practice **HMIS** = Hazardous Material Identification System **IARC** = The International Agency for Research on Cancer **IATA** = International Air Transportation Association **IBC** = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk **IC50** = Half maximal inhibitory concentration **ICAO** = International Civil Aviation Organization **IECSC** = Inventory of Existing Chemical Substances in China **IMDG** = International Maritime Dangerous Goods **IMO** = International Maritime Organization **ISHL** = Industrial Safety and Health Law (Japan) **ISO** = International Organization for Standardization **KECI** = Korea Existing Chemicals Inventory **LC50** = Lethal Concentration of 50% of a test population **LD50** = Lethal Dose of 50% of a test population (Median Lethal Dose) **MARPOL** = International Convention for the Prevention of Pollution from Ships **MSHA** = Mine Safety and Health Administration **n.o.s.** = Not Otherwise Specified **NFPA** = National Fire Protection Association **NO(A)EC** = No Observed (Adverse) Effect Concentration **NO(A)EL** = No Observed (Adverse) Effect Level **NOELR** = No Observed (Adverse) Effect Loading Rate **NTP** = National Toxicology Program **NZIoC** = New Zealand Inventory of Chemicals **OECD** = Organization for Economic Co-operation and Development **OPPTS** = Office of Chemical Safety and Pollution Prevention **PBT** = Persistent, Bio accumulative and Toxic Substances **PICCS** = Philippines Inventory of Chemicals and Chemical Substances **(Q)SAR** = (Quantative) Structure Activity Relationship **RCRA** = Resource Conservation and Recovery Act **REACH** = Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals **RQ** = Reportable Quantity **SADT** = Self-Accelerating Decomposition Temperature **SARA** = Superfund Amendments and Reauthorization Act **SDS** = Safety Data Sheet **TCSI** = Taiwan Chemical Substances Inventory **TSCA** = Toxic Substances Control Act (United States) **UN** = United Nations **UNRTDG** = United Nations Recommendations on the Transport of Dangerous Goods **vPvB** = Very Persistent and Very Bio accumulative

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Prepared by:

Premier Repak, Inc.

<http://premierrepak.com/>

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