



## SAFETY DATA SHEET

### ROYALSIL HI-PURITY-OHEB PDMS 20,000 CTKS

#### Section 1. Identification

**Product Name:** ROYALSIL HI-PURITY OHEB PDMS 20,000 CTKS

**Product Use:** For Industrial Use Only. Poly dimethyl siloxane is the simplest member of the silicone polymer family.

**Effective Date:** 21 May 2019

**Replaces:** New.

**Supplier Information:**

ROYALSIL, Inc.  
25 Lancelot Lane  
Mount Laurel, NJ 08054-1912

**USA Emergency Phone Number:**

**CHEMTREC (24-hr/7 days): 1-800-424-9300**

**Refer to ROYALSIL, Inc. Contract # CCN674872.**

#### Section 2. Hazard(s) Identification

**Emergency Overview:** Clear hazy liquid. Causes irritation. Cause serious eye irritation. Harmful to aquatic life.

**GHS Classification:**

|                          |             |
|--------------------------|-------------|
| Acute Aquatic Toxicity   | Category 2  |
| Respiratory Irritation   | Category 2  |
| Eye Irritation           | Category 2B |
| Flammable Liquid         | Category 3  |
| Chronic Aquatic Toxicity | Category 4  |



**GHS Pictograms:**

**GHS Label:** WARNING

**POTENTIAL HEALTH EFFECTS:**

**CODE OF HAZARD STATEMENTS:**

**Physical Hazards**

**Health Hazards**

H303- May be harmful if swallowed.

H314- Causes severe skin burns and eye damage.

H320- Causes eye irritation.

H332- Harmful if inhaled.

**Environmental Hazards**

H402- Harmful to aquatic life.



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**CODE OF PRECAUTIONARY STATEMENTS:**

**General**

P101- Keep out of reach of children.

P103- Read label before use.

**Prevention Statements**

P202- Do not handle until all safety precautions have been read and understood.

P210- Keep away from heat, open flames, sparks – NO SMOKING.

P233- Keep container tightly closed.

P261- Avoid breathing dust/fume/gas/mist/vapor/spray.

P262- Do not get in eyes, on skin or on clothing.

P264- Wash thoroughly after handling using this product.

P270- Do not eat, drink, or smoke when using this product.

P271- Use only outdoors or in a well-ventilated area.

P273- Avoid release to the environment.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

**Response Statements**

P302- P352- IF ON SKIN (or hair): wash with plenty water/soap.

P304- P312- P340 - IF INHALED. Remove victim to fresh air and keep at rest in position comfortable and breathing. Call a POISON CENTER or doctor/physician you feel unwell.

P305- P310- P338- P351 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POSION CENTER or doctor/physician if you feel unwell.

P313- P362- If skin irritation or rash occurs: Get medical advices/attention.

P363- Wash contaminated clothing before reuse.

P370- P378- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P391- Collect spillage.

**Storage**

P235- P403- Store in well-ventilated place. Keep cool.

**Disposal**

P501- Dispose of contents/container to an approved waste disposal plant.

**ROUTES OF ENTRY:** Eye contact, skin adsorption, ingestion and inhalation.

**CARCINOGENICITY:** None.

**Section 3. Composition/Information on Ingredients**

| Ingredients                             | CAS No.    | EINECS No. | %   | Reach No. |
|---|------------|------------|-----|-----------|
| Silanol terminated polydimethylsiloxane | 70131-67-8 | 231-915-7  | <97 | No        |
| Octamethylcyclotetrasiloxane            | 556-67-2   | 209-136-7  | <3  | No        |



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#### Section 4. 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 water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse. If irritation persists, contact a physician.

**Inhalation:** Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

**Ingestion:** If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

**Note to Physician:** Treat symptomatically and supportively.

#### Section 5. Fire Fighting Measures

**Flash Point:** <572°F (<300°C) Combustible liquid

**Flammability Limits:** LEL: ND UEL: ND

**Fire Fighting Media:** Use water spray, water fog, dry chemical or carbon dioxide.

**Special Fire Fighting Procedures:** Eliminate all sources of ignition and ensure adequate ventilation. In case of fire cool endangered containers with water. First responders need to wear full-bunker gear with Self Contained Breathing Apparatus (SCBA), never enter a confined space unless fully protected with proper personal protective equipment (PPE).

#### Section 6. Accidental Release Measures

Use personal protective equipment, see section 8.

**Clean-up Procedures:** Avoid cutting the containers, ground to avoid explosive gases. Stop the source of the release if you are not put at risk. Use inert absorbent material (such as earth, diatomaceous earth, vermiculite) to absorb the spill, use non-sparking shovel to pick up absorbent for disposal. Assure sufficient ventilation.

**Spills and Leaks:** Dispose in accordance to local, state or Federal regulations.



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#### Section 7. Handling and Storage

**Handling:** Provide good ventilation. Wear personal protective equipment, see section 8. Do not get into eyes, on skin and on clothing. Do not breathe vapors or mists. Use with adequate ventilation. Wash thoroughly after handling.

**Storage:** Store in original labeled container. Keep in cool and dry areas.

#### Section 8. Exposure Controls/Personal Protection

**Introductory Remarks:** Use a local exhaust ventilation or other engineering controls to minimize airborne exposure. A safety shower and eye wash should be readily available.

##### Personal Protection:

**Eyes:** Wear safety goggles or face shield to prevent eye contact.

**Body:** Chemical apron, long sleeve shirts, long pants, socks, and rubber boots.

**Hands:** Chemical resistant gloves.

**Respiratory:** Wear an approved respirator that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.

#### Section 9. Physical and Chemical Properties

|                                    |                                     |                         |                       |
|------------------------------------|-------------------------------------|-------------------------|-----------------------|
| <b>Physical State, Color, Odor</b> | Clear to hazy liquid with mild odor | <b>Density(water=1)</b> | >1 g/ml @ 68°F (20°C) |
| <b>Flash Point</b>                 | >572°F (>300°C)                     | <b>Boiling Point</b>    | >572°F (>300°C)       |
| <b>Viscosity (cSt)</b>             | 20,000                              | <b>VOC</b>              | <3%                   |

#### Section 10. Stability and Reactivity

**Chemical Stability:** Considered stable under normal ambient temperatures.

**Hazardous Decomposition:** In complete combustion, oxides of carbon, platinum and silicate are formed.

**Hazardous Polymerization:** Will not occur.

**Incompatibility- Materials to Avoid:** Reacts with strong oxidizing agent and strong bases.



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#### Section 11. Toxicological Information

**Toxicology:** Acute Oral LD<sub>50</sub>(rat) = >15,400 mg/KG  
Acute Dermal LD<sub>50</sub>(rabbit) = >16 ml/KG

**Skin Irritation:** May cause mild skin irritation.

**Eye Irritation:** May cause eye irritation.

**Ingestion:** May be harmful.

**Reproductive Toxicity:** No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.

**Carcinogenic Effects:** None.

#### Section 12. Ecological Information

**Toxicity:** LC<sub>50</sub> (fish) = >500 mg/L (96 hour test)

**Environmental Fate:** Ingredients are not readily bio degradable. Expect low mobility in soil.

#### Section 13. Disposal Considerations

**Waste Disposal Method:** Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations.

**Container Handling and Disposal:** All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

#### Section 14. Transport Information

**Shipping Name:** ROYALSIL HI-PURITY OHEB PDMS 20,000 CTKS

**Proper Shipping Description (Ground):**

Not regulated.

**IATA: (Cargo aircraft only)**

Not regulated.

**IMO (Water):**

Not regulated.

#### Section 15. Regulatory Information

|                                  |                                   |     |
|----------------------------------|-----------------------------------|-----|
| <b>EPCRA 311/312 Categories:</b> | Immediate (Acute) Health Effects: | Yes |
|                                  | Delayed (Chronic) Health Effects: | No  |
|                                  | Fire Hazard:                      | Yes |
|                                  | Sudden Release of Pressure        | No  |
|                                  | Reactivity:                       | No  |



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**Right to know classification:** Products are listed in NJ and PA.

**TSCA:** Silanol terminated polydimethylsiloxane and Octamethylcyclotetrasiloxane are listed on the TSCA active inventory list.

**Reportable Quantity (RQ):** None.

**Prop. 65:** None.



**WHMIS:** Flammable and Combustible materials.  
The ingredients are listed in the DSL list in Canada.

Octamethylcyclotetrasiloxane is listed in chemical inventories of Australia, Canada, China, Korea, New Zealand, United Kingdom and United States of America.

Silanol terminated polydimethylsiloxane is listed in chemical inventories of Australia, Canada, China, EU, Japan, Korea, New Zealand, Philippines, United Kingdom and United States.

#### Abbreviations:

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|                  |   |                  |                              |
|------------------|---|------------------|------------------------------|
| CAS #            | Chemical Abstract Service Number                          |                  |                              |
| °C               | Celsius Temperature Scale                                 | °F               | Fahrenheit Temperature Scale |
| EINECS #         | European Inventory of Existing Chemical Substances Number |                  |                              |
| hPa              | hectopascal   | LD <sub>50</sub> | Lethal Dose Oral or Dermal   |
| LC <sub>50</sub> | Lethal Dose Inhalation                                    | LEL              | Lower Explosive Limit        |
| UEL              | Upper Explosive Limit                                     | PEL              | Permissible Exposure Limit   |
| PPE              | Personal Protective Equipment                             | Prop.            | Proprietary                  |
| PSI              | Pounds Per Square Inch                                    | NA               | Not Applicable               |
| ND               | Not Determined  | STEL             | Short Term Exposure Limit    |
| TLV              | Threshold Limit Value                                     | TSCA             | Toxic Substance Control Act  |
| TWA              | Time Weighted Average                                     |                  |                              |

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**Section 16. Other Information**

**Hazardous Material Information System**

**National Fire Protection Association**

| HMIS |                     | NFPA |             |
|------|---------------------|------|-------------|
| 1    | Health              | 1    | Health      |
| 1    | Fire                | 1    | Fire        |
| 0    | Reactivity          | 0    | Instability |
| H    | Personal Protection |      | NA          |

|                            |                |                  |             |                   |                 |
|----------------------------|----------------|------------------|-------------|-------------------|-----------------|
| Health                     | 4 Deadly       | 3 Extreme Danger | 2 Dangerous | 1 Slight hazard   | 0 No hazard     |
| Fire                       | 4 < 73 °C      | 3 < 100 °C       | 2 < 200 °C  | 1 >200 °C         | 0 Will not burn |
| Reactivity/<br>Instability | 4 May detonate | 3 Explosive      | 2 Unstable  | 1 Normally stable | 0 Stable        |

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This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) this product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by CPR.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability or completeness.

It is the user’s responsibility to satisfy himself as to the suitability and completeness of such information for his own use. We do not accept liability for any loss or damage that may occur from the use of this information.

Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending the license under valid patents. This SDS provides selected regulatory information on this product, including its components.

This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws related to the product being used.



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#### **DISCLAIMER**

Strictly for Commercial or Research and Development use only. Not intended for drug, household or other noncommercial uses.

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The user of this information takes full responsibility in how these tests are performed and the seller in no way expressed, written or implied is responsible for the interpretation of the results. All use of these tests is the full responsibility of the user.

#### **WARRANTY**

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