

Section 1. Identification

Product Name: ROYALSIL HI-PURITY OHEB PDMS 2,000 CTKS Product Use: For Industrial Use Only. Poly dimethyl siloxane is the simplest member of the silicone polymer family.

Replaces: New.

Effective Date: 21 May 2019 **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 lic	quid. 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 STATEMEN' Physical Hazards				
Health Hazards				
H303- May be harmful if swallowed.				
H314- Causes severe skin burns and e	eye damage.			
H320- Causes eye irritation.				
H332- Harmful if inhaled.				
Environmental Hazards				
H402- Harmful to aquatic life.				



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 apposition 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 Ingredien	nts

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



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: <536°F (<280°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.



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			
	1		<u>.</u>
Physical State, Color,	Clear to hazy liquid	Density(water=1)	<1 g/ml @ 68°F
Odor	with mild odor		(20°C)
Flash Point	>536°F (>280°C)	Boiling Point	>536°F (>280°C)
Viscosity (cSt)	2.000	VOC	<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.



Section 11. Toxicological Information Toxicology: Acute Oral LD_{50(rat)} = >15,400 mg/KG Acute Dermal LD_{50(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: $LC_{50 \text{ (fish)}} = >500 \text{ mg/L (96 hour test)}$ **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 2,000 CTKS **Proper Shipping Description (Ground):** Not regulated.

IATA: (Cargo aircraft only) Not regulated.

IMO (Water):

Not regulated.

Section 15. Regulatory Information

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



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

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

Abbreviations:

CAS #	Chemical Abstract Service Number		
°C Celsiu	s Temperature Scale	°F	Fahrenheit Temperature Scale
EINECS #	# European Inventory of Existing Che	mical S	ubstances Number
hPa	hectopascal	LD50	Lethal Dose Oral or Dermal
LC50	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		



Section 16. Other Information				
Hazardous Informatio			tional Fire Prote sociation	ction
HMIS		NFPA		1
1	Health	1	Health	
1	Fire	1	Fire	
0	Reactivity	0	Instability	
Н	Personal Protection		NA	
Health Fire Reactivity/ Instability	$\begin{array}{cccc} 4 & \text{Deadly} & 3 & \text{Extra}\\ 4 & < 73 \ ^\circ \text{C} & 3 & < 10\\ 4 & \text{May detonate} & 3 & \text{Expl} \end{array}$		 2 Dangerous 2 < 200 °C 2 Unstable 	1 Slight hazard0No hazard1 >200 °C0Will not burn1 Normally stable0Stable

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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.

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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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