

Section 1. Identification

Product Name: ROYALSIL HI-PURITY VEB 100 CTKS

Product Use: For Industrial Use Only. Polydimethylsiloxane is the simplest member of the

silicone polymer family.

Effective Date: 8 September 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 skin irritation. Causes serious eye irritation.

Harmful to aquatic life. **GHS Classification:**

Serious Eye Damage Category 2
Acute Aquatic Toxicity Category 2
Chronic Aquatic Toxicity Category 2
Flammable Liquid Category 4

Category 4





GHS Label: WARNING

POTENTIAL HEALTH EFFECTS: CODE OF HAZARD STATEMENTS:

Physical Hazards

H227- Combustible Liquid.

Health Hazards

H227- Combustible Liquid.

H303- May be harmful if swallowed.

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.

P240- Ground and bond container and receiving equipment.

P241- Use explosion-proof [electrical, ventilating, lighting] equipment.

P242- Use non-sparking tools.

P243- Take action to prevent static discharges.

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 Ingredients

| Ingredients | CAS No. | EINECS No. | % | Reach |
|-------------------------------|------------|------------|----------------|-------|
| | | | | No. |
| Polydimethylsiloxanes, | 68951-99-5 | 270-844-4 | <u><</u> 98 | No |
| vinyldimethylsiloxyterminated | | | | |
| Divinyltetramethyldisloane | 2627-95-4 | 220-99-6 | <u>< 2</u> | 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: >199°F (>93°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

| Physical State, Color, | Clear liquid with mild | Density(water=1) | 0.96 g/ml @ 68°F |
|------------------------|------------------------|----------------------|------------------|
| Odor | odor | | (20°C) |
| Flash Point | >199°F (>93C) | Boiling Point | >401°F (>205°C) |
| Viscosity (cSt) | 100 | Freezing Point | -76°F (-60°C) |

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 oxidizers, strong bases, acids and

water.

Section 11. Toxicological Information

Skin Irritation: Mild.

Eye Irritation: Serious damage to eyes.

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

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 VEB 100 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: Polydimethylsiloxanes, vinyldimethylsiloxyterminated and divinyldimethyldisiloxane are listed in NJ and PA.

TSCA: Polydimethylsiloxanes, vinyldimethlysiloxyterminated and divinyldimethyldisiloxane are listed on the TSCA active inventory list.

Reportable Quantity (RQ): None.

Prop. 65: None.



WHMIS: Flammable and Combustible materials.

Polydimethylsiloxanes, vinyldimethylsiloxyterminated and divinyldimethyldisiloxane are listed in the DSL list in Canada.

Polydimethylsiloxanes, vinyldimethylsiloxyterminated and divinyldimethyldisiloxane are listed in chemical inventories of Australia, Canada, China, EU, Korea, New Zealand, United Kingdom and United States of America.

Abbreviations:

| CAS# | Chemical Abstract Service Number | | | | |
|--|----------------------------------|-----------|------------------------------|--|--|
| °C Celsiu | s Temperature Scale | °F | Fahrenheit Temperature Scale | | |
| EINECS # European Inventory of Existing Chemical Substances Number | | | | | |
| hPa | hectopascal | LD_{50} | Lethal Dose Oral or Dermal | | |
| LC_{50} | 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 Material Information System

National Fire Protection Association

| HMIS | | NFPA | |
|------|---------------------|------|-------------|
| 1 | Health | 1 | Health |
| 3 | Fire | 3 | Fire |
| 0 | Reactivity | 0 | Instability |
| Н | Personal Protection | | NA |

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



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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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