1. PRODUCT AND COMPANY IDENTIFICATION

MSDS No.: 02423839

SUPPLIER: Dow Corning Canada Inc.
15-6400 Millcreek Drive, Suite 416
Mississauga, ON, Canada L5N 3E7

Prepared by Product Safety: (800) 248-2481
NEWALTA: (800) 567-7455
Revision Date: 2010/10/18

MANUFACTURER: Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900

WHMIS CLASSIFICATION: Class D, Division 2, Subdivision A.
Material Usage: Silicone rubber base

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Generic Description: Silicone elastomer
Physical Form: Viscous Liquid
Colour: Off-White
Odour: None

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POTENTIAL HEALTH EFFECTS

Acute Effects

Eye: Direct contact may cause mild irritation.
Skin: No significant irritation expected from a single short-term exposure.
Inhalation: No significant effects expected from a single short-term exposure.
Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: Repeated or prolonged exposure may cause irritation.
DOW CORNING(R) HS II RTV HIGH STRENGTH MOLDMAKING SILICONE RUBBER BASE (BASE information is below)

Inhalation: No known applicable information.
Oral: No known applicable information.

**Signs and Symptoms of Overexposure**

No known applicable information.

**Medical Conditions Aggravated by Exposure**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>14940-68-2</td>
<td>10.0 - 30.0</td>
<td>Zircon</td>
</tr>
<tr>
<td>556-67-2</td>
<td>0.1 - 1.0</td>
<td>Octamethylcyclotetrasiloxane</td>
</tr>
</tbody>
</table>

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555.

### 4. FIRST AID MEASURES

**Eye:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.

**Skin:** No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Inhalation:** If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

**Oral:** If irritation or discomfort occur, obtain medical advice.

**Notes to Physician:** Treat according to person's condition and specifics of exposure.

### 5. FIRE-FIGHTING MEASURES

**Flash Point:** > 212 °F / > 100 °C (Closed Cup)
DOW CORNING(R) HS II RTV HIGH STRENGTH MOLDMAKING SILICONE RUBBER BASE (BASE information is below)

Autoignition Temperature: Not available.

Flammability Limits in Air: Not available.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: None.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. 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 absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.

Note: See Section 8 for Personal Protective Equipment for Spills. Refer to Section 1 to obtain telephone numbers, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Avoid eye contact. Avoid skin contact.

Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Consult local authorities for acceptable provincial values.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Component Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50: 36 mg/l - Inhalation Rat; 4hr vapor</td>
</tr>
</tbody>
</table>
**DOW CORNING(R) HS II RTV HIGH STRENGTH MOLDMAKING SILICONE RUBBER BASE (BASE information is below)**

**LD50:**  > 5,000 mg/kg - Oral Rat  
**LD50:**  > 4,640 mg/kg - Dermal Rabbit

14940-68-2  
Zircon  
Observe zirconium compounds limits. OSHA PEL (final rule) and ACGIH TLV: TWA 5 mg/m3; STEL 10 mg/m3.

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**Engineering Controls**

Local Ventilation:  None should be needed.  
General Ventilation:  Recommended.

**Personal Protective Equipment for Routine Handling**

Eyes:  Use proper protection - safety glasses as a minimum.  
Skin:  Washing at mealtime and end of shift is adequate.  
Suitable Gloves:  Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.  
Inhalation:  No respiratory protection should be needed.  
Suitable Respirator:  None should be needed.

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**Personal Protective Equipment for Spills**

Eyes:  Use proper protection - safety glasses as a minimum.  
Skin:  Washing at mealtime and end of shift is adequate.  
Inhalation/Suitable Respirator:  No respiratory protection should be needed.  
Precautionary Measures:  Avoid eye contact. Avoid skin contact. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical Form:  Viscous Liquid  
- Color:  Off-White
### Odor:
None

Odor Threshold: Not available.

### Specific Gravity @ 25°C:
1.213

Viscosity: 34,000 mPa s

### Freezing/Melting Point:
Not available.

Boiling Point: > 65 °C

### Vapor Pressure @ 25°C:
Not available.

Vapor Density: Not available.

### Flash Point:
> 212 ºF / > 100 ºC (Closed Cup)

Autoignition Temperature: Not available.

Flammability Limits in Air: Not available.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

## 10. STABILITY AND REACTIVITY

### Chemical Stability:
Stable.

### Hazardous Polymerization:
Hazardous polymerization will not occur.

### Conditions to Avoid:
None.

### Materials to Avoid:
Oxidizing material can cause a reaction.

### Hazardous Decomposition Products:
Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Nitrogen oxides. Metal oxides.

## 11. TOXICOLOGICAL INFORMATION

### Component Toxicology Information:
Octamethylcyclotetrasiloxane administered to rats by inhalation at concentrations of 500 and 700 ppm resulted in statistically significant decreases in the number of pups born and the live litter size in both the first and second generations. Prolonged estrous cycles, and decreased mating and fertility indices were observed following 700 ppm exposure in the second generation only. There were also increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia).
Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only.

Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans.

Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (http://www.ec.gc.ca/substances/ese/eng/challenge/batch2/batch2_556-67-2.cfm).

Repeated exposure in rats to D4 resulted in what appears to be protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

### Special Hazard Information on Components

**Reproductive Toxicity**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
<th>Evidence of reproductive effects in laboratory animals.</th>
</tr>
</thead>
<tbody>
<tr>
<td>556-67-2</td>
<td>0.1 - 1.0</td>
<td>Octamethylcyclotetrasiloxane</td>
<td></td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

### Ecotoxicity Classification Criteria

<table>
<thead>
<tr>
<th>Hazard Parameters (LC50 or EC50)</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Aquatic Toxicity (mg/L)</td>
<td>&lt;=1</td>
<td>&gt;1 and &lt;=100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Acute Terrestrial Toxicity</td>
<td>&lt;=100</td>
<td>&gt;100 and &lt;= 2000</td>
<td>&gt;2000</td>
</tr>
</tbody>
</table>

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the
DOW CORNING(R) HS II RTV HIGH STRENGTH MOLDMAKING SILICONE RUBBER BASE (BASE information is below)

section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

Can be incinerated in accordance with local regulations.

Call local hazardous waste disposal company or provincial waste authorities for more information. Refer to Section 1 to obtain telephone numbers, if additional information is required.

14. TRANSPORT INFORMATION

Canada Road (Based on IMDG Regulations)

Not subject to local road regulations.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Refer to Section 1 to obtain telephone numbers, if additional information is required.

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION: Class D, Division 2, Subdivision A.

DSL Status: All chemical substances in this material are included on or exempted from the DSL.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

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.

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