1. **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 **Product identifier**

- **Product Name**: Silmer G-162
- **Product code**: 6970
- **Chemical Name**: Mixture
- **CAS No.**: 541-02-6 / 156065-02-0
- **Alternative names (INCI)**: Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer

1.2 **Recommended use of the chemical and restrictions on use**

- **Identified use(s)**: PC39 Cosmetics, personal care products
- **Surface active agent**: None known

1.3 **Details of the supplier of the Safety Data Sheet**

- **Company Identification**: Siltech Corp
  225 Wicksteed Ave
  Toronto, ON Canada M4H 1G5
- **Telephone**: +1-416-424-4567
- **Fax**: +1-416-424-3158
- **E-Mail (competent person)**: raj@siltech.com

- **Additional Location**: Siltech Corp
  3265 Wolfedale Road,
  Mississauga ON Canada L5C 1V8
- **Telephone**: +1-905-270-5534
- **Fax**: +1-905-270-5816

1.4 **Emergency telephone number**

- **Emergency Phone No.**: CANUTECH - TELEPHONE: EMERGENCY USE ONLY
  +1-613-996-6666

2. **SECTION 2: HAZARDS IDENTIFICATION**

2.1 **Classification of the substance or mixture**

- **Flammable Liquid Category 4**

2.2 **Label elements**

- **Product Name**: Silmer G-162
- **Symbol**: NONE
- **Signal word(s)**: Warning
- **Hazard statement(s)**: H227: Combustible liquid.
- **Precautionary statement(s)**: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.

2.3 **Other hazards**

- **Vapour may create explosive atmosphere.**

3. **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 **Mixtures**

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>Synonym(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Hazard pictogram(s) and Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decamethylcyclopentasiloxane</td>
<td>D5</td>
<td>80 - 95</td>
<td>541-02-6</td>
<td>208-764-9</td>
<td>H227</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>D4</td>
<td>&lt; 0.1</td>
<td>556-67-2</td>
<td>209-136-7</td>
<td>GHS02, GHS08, GHS09 H226, H361f, H411</td>
</tr>
</tbody>
</table>
4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
- Inhalation: Unlikely to be required but if necessary treat symptomatically.
- Skin Contact: Unlikely to be required but if necessary treat symptomatically.
- Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for several minutes.
- Ingestion: If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed: Not available.

4.3 Indication of any immediate medical attention and special treatment needed: Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
- Suitable Extinguishing Media: In case of fire, use water spray, foam, dry powder or CO2 for extinction. Keep containers cool by spraying with water if exposed to fire.
- Unsuitable Extinguishing Media: None known

5.2 Special hazards arising from the substance or mixture: Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.

5.3 Advice for fire-fighters: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: Caution - spillages may be slippery. Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections: See Section: 7 & 8.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid ingestion. Use only with sufficient ventilation. Wash thoroughly after handling. General hygiene measures for the handling of chemicals are applicable.

7.2 Conditions for safe storage, including any incompatibilities: Store in a tightly closed container.

7.2.1 Storage Temperature: Ambient

7.2.2 Storage Life: Stable under normal conditions.

7.2.3 Incompatible materials: Oxidizing agents

7.3 Specific end use(s): Industrial use

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>None assigned</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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8.1.2 Biological limit value Not established

8.1.3 PNECs and DNELs Not established

8.2 Exposure controls
8.2.1 Appropriate engineering controls Provide adequate ventilation.

8.2.2 Personal protection equipment
Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/Other) Wear suitable gloves if prolonged skin contact is likely.

Respiratory protection No personal respiratory protective equipment normally required.

8.2.3 Environmental Exposure Controls Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance Colourless liquid.
Odour Faint.
Odour Threshold Not available.
pH Not available.
Melting Point/Freezing Point Not available.
Initial boiling point and boiling range 210°C @ 760mmHg
Flash point (PMCC) 77°C
Evaporation rate < 1
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits Not available.
Vapour pressure 0.015 kPa
Vapour density Not available.
Relative density / Specific Gravity (25°C) Not available.
Solubility(ies) Insoluble in water.
Partition coefficient: n-octanol/water Not available.
Auto-ignition temperature Not available.
Decomposition Temperature Not available.
Viscosity (25°C) 300,000-800,000 cps
Explosive properties Not applicable.
Oxidising properties Not applicable.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions Will not occur.

10.4 Conditions to avoid None known.

10.5 Incompatible materials Oxidizing agents.

10.6 Hazardous Decomposition Product(s) Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.
11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion  LD50 (oral, rat) mg/kg: >5000
Inhalation  LC50 (inhalation, rat) mg/l/4h: > 5000
Skin Contact  None anticipated
Eye Contact  None anticipated

Effects and Symptoms

- skin corrosion/irritation  Not classified
- Serious eye damage/irritation  Mild irritant to rabbit eyes.
- Respiratory or skin sensitization  Not classified
- Germ cell mutagenicity  Not classified
- Carcinogenicity  Not classified
- Reproductive toxicity  Not classified
- STOT - single exposure  Not classified
- STOT - repeated exposure  Not classified
- Aspiration hazard  Not classified
- Delayed and chronic effects  Not available
- Calculated acute toxicity estimate (ATE)  Not available

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity  Low toxicity to aquatic organisms.
12.2 Persistence and degradability  Not available.
12.3 Bioaccumulative potential  Identified as a vPvB according to REACH Annex XIII.
12.4 Mobility in soil  Not available.
12.5 Results of PBT and VPVB assessment  Not available.
12.6 Other adverse effects  None known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods  Do not empty into drains; dispose of this material and its container in a safe way.
13.2 Additional Information  Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 TDG / Road/Rail (ADR/RID)  Not classified as dangerous for transport.
14.2 Air (ICAO/IATA)  Not classified as hazardous for air transport.
14.3 Sea (IMDG)  Not classified as hazardous for marine transport.

14.4 DOT / CFR (US Department of Transportation)  (Applicable only to containers > 119 gallons or 450 L)

- DOT Proper Shipping Name  Combustible liquid, N.O.S. (Decamethylcyclopentasiloxane solution)
  Class  3  Packing group III
  UN number  1993

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations

- Candidate List of Substances of Very High Concern for Authorisation
  - vPvB: very Persistent and very Bioaccumulative  Decamethylcyclopentasiloxane (CAS# 541-02-6) 80 – 95%
  - vPvB: very Persistent and very Bioaccumulative  Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%
  - PBT: Persistent, Bioaccumulative and Toxic  Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%

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15.2 International Inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Listed</th>
<th>Not listed</th>
<th>Polymer exempt</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States (TSCA)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSSL)</td>
<td></td>
<td></td>
<td>DSL ✓</td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
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<td></td>
<td>✓</td>
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<tr>
<td>Australia (AICS)</td>
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<td>China (IECSO)</td>
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<td>South Korea (KECI)</td>
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<td>Taiwan (TCISI)</td>
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<td>New Zealand (NZIoC)</td>
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<td></td>
<td>✓</td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

15.3 National regulations

- United States (TSCA): TSCA Inventory Status: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules). Personal care exempt
- HMIS (Hazardous Material Information System) H = 1 / F = 2 / R = 0
- NFPA Rating H = 1 / F = 2 / R = 0

15.4 US State Regulations

- 15.4.1 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.
- 15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.
- 15.4.3 State Right to Know Lists: None known.

16. SECTION 16: OTHER INFORMATION

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LEGEND

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTEL</td>
<td>Long Term Exposure Limit</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>STOT</td>
<td>Specific Target Organ Toxicity</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No Effect Concentration</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

References:

- Hazard statement(s) and Precautionary statement(s):
  - H227: Combustible liquid.
  - P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P403+P235: Store in a well-ventilated place. Keep cool.

Hazard pictogram(s) and Hazard Symbol

NONE

Training advice:

Additional Information
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