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

1.1 **Product Identifier**

Product Name: Silmer G-162A

Product code: 6970.2

Chemical Name: Mixture

CAS No.: 541-02-6 / 156065-02-0 / 200074-76-6

Alternative names (INCI): Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer (and) Behenyl Dimethicone / Bis-Vinylidimethicone Crosspolymer

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

Identified use(s): PC39 Cosmetics, personal care products

Uses advised against: None known

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

Company Identification: Siltech Corp

Telephone: +1-416-424-4567

Fax: +1-416-424-3158

E-Mail (competent person): raj@siltech.com

Additional Location: Siltech Corp

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-162A

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

Storage Temperature: Ambient
Storage Life: Stable under normal conditions.
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>
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</thead>
<tbody>
<tr>
<td>None assigned</td>
<td></td>
<td></td>
<td></td>
<td></td>
<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: Gel (colourless)
- 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 Low toxicity expected under normal conditions of use.
Inhalation Low toxicity expected under normal conditions of use.
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 Not available.
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
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%
Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%
Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%

vPvB: very Persistent and very Bioaccumulative
PBT: Persistent, Bioaccumulative and Toxic

Decamethylcyclopentasiloxane (CAS# 541-02-6) 80 – 95%
Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%
Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%
15.2 International Invenories

<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/NDSL)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
<td>✓</td>
<td></td>
<td>✓</td>
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<tr>
<td>Australia (AICS)</td>
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</tr>
<tr>
<td>China (IECSC)</td>
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<td>Japan (ENCS)</td>
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<td>South Korea (KECI)</td>
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<td>New Zealand (NZIoC)</td>
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<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td></td>
<td></td>
<td></td>
<td>X</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) and 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

Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%

16. SECTION 16: OTHER INFORMATION

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LEGEND

- LTEL: Long Term Exposure Limit
- STEL: Short Term Exposure Limit
- STOT: Specific Target Organ Toxicity
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

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

Additional Information

Disclaimers

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