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

1.1 **Product identifier**
- **Product Name**: Silmer G-11
- **Product code**: 6977.11
- **Chemical Name**: Mixture
- **CAS No.**: 541-02-6 / 63394-02-5
- **Alternative names (INCI)**: Cyclopentasiloxane (and) Polysilicone 11

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
  - 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-11
- **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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>None assigned</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Revision: 3  Page: 2/5  Date: 04/02/2020
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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td>Skin Contact</td>
</tr>
<tr>
<td>Eye Contact</td>
</tr>
</tbody>
</table>

*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) Combustible liquid, N.O.S. (Decamethylcyclopentasiloxane solution) |
| 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% |
| 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% |
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>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSSL)</td>
<td></td>
<td>DSL✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australia (AICS)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China (IECSO)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan (ENCS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Korea (KECI)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taiwan (TCI)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Zealand (NZIoC)</td>
<td>✓</td>
<td></td>
<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)

NFPA Rating

**Frontline (Hazardous Material Information System)**

**NFPA Rating**

H = 1 / F = 2 / R = 0

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

Revision: February 04, 2020

**Legend**

<table>
<thead>
<tr>
<th>Acronym</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>

**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**

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Siltech Corp. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Siltech Corp. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Revision: 3  
Page: 5/5  
Date: 04/02/2020