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

1.1 **Product identifier**

- **Product Name**: Silamine MUE
- **Product code**: 5930.1
- **Chemical Name**: Siloxanes and Silicones, di-Me, [[3-((2-aminoethyl)amino)propyl]dimethoxysilyl]oxy]-terminated
- **CAS No.**: 71750-80-6

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

- **Identified use(s)**: An intermediate chemical product. Additive, Surface active agent
- **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**

- Skin Irrit. 2
- Eye Irrit. 2

2.2 **Label elements**

- **Product Name**: Silamine MUE
- **Symbol**

- **Signal word(s)**: Warning
- **Hazard statement(s)**: H315: Causes skin irritation. H319: Causes serious eye irritation.
3. **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

<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>Siloxanes and Silicones, di-Me, [[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyloxy]-</td>
<td>Aminated Polydimethylsiloxane</td>
<td>95 - 100</td>
<td>71750-80-6</td>
<td>Polymer exempt</td>
<td>GHS07</td>
</tr>
<tr>
<td>terminated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H315, H319</td>
</tr>
</tbody>
</table>

2.3 Other hazards

None known

4. **SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures

**Inhalation**
- If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin Contact**
- Remove contaminated clothing immediately and wash affected skin with soap and water. Obtain medical attention if ill effects occur.

**Eye Contact**
- If substance has got into the eyes, immediately wash out with plenty of water for several minutes. Obtain medical attention if ill effects occur.

**Ingestion**
- If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

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. See Section: 7 & 8.

6.4 Reference to other sections

- See Section: 7 & 8.

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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
- Specific end use(s): Industrial use

Store in a tightly closed container.

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>

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.
  Nitrile rubber, Neoprene, Rubber
- Respiratory protection
  Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved.
- Thermal hazards
  None.

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 to yellowish liquid.
- Odour: Characteristic odour.
- Odour Threshold: Not available.
- pH: Not available.
- Melting Point/Freezing Point: Not available.
- Initial boiling point and boiling range: >100°C @ 760mmHg
- Flash point (PMCC): >100°C
- Evaporation rate: Not available.
- Flammability (solid, gas): Not applicable.
- Upper/lower flammability or explosive limits: Not available.
- Vapour pressure: Not available.
- Vapour density: Not available.
Relative density / Specific Gravity (25°C) 0.99
Solubility(ies) Insoluble in water.
Partition coefficient: n-octanol/water Not available.
Auto-ignition temperature Not available.
Decomposition Temperature Not available.
Viscosity (25°C) 1000 - 5000 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 under normal conditions of handling and use.
   Inhalation Mist may cause irritation.
   Skin Contact May cause irritation
   Eye Contact May cause irritation

   Effects and Symptoms
   skin corrosion/irritation Causes skin irritation.
   Serious eye damage/irritation Causes eye irritation.
   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 Not available.
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 DOT / TDG / Road/Rail (ADR/RID)  Not classified as hazardous for road transport.
Not classified as hazardous for rail transport.

14.2 Air (ICAO/IATA)  Not classified as hazardous for air transport.

14.3 Sea (IMDG)  Not classified as hazardous for marine transport.

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations
REACH Registration No.  Polymer exempt.

Candidate List of Substances of Very  Possible trace amounts of: (< 0.1%)
High Concern for Authorisation
Octamethylcyclotetrasiloxane (CAS# 556-67-2)
Decamethylcyclopentasiloxane (CAS# 541-02-6)
Dodecamethylcyclohexasiloxane (CAS# 540-97-6)

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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSL)</td>
<td></td>
<td>DSL ✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
<td>✓</td>
<td></td>
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<tr>
<td>Australia (AICS)</td>
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<tr>
<td>China (IECSC)</td>
<td>✓</td>
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<td>Taiwan (TCI)</td>
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<td>New Zealand (NZIoC)</td>
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<tr>
<td>Philippines (PICCS)</td>
<td>✓</td>
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</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).

HMIS (Hazardous Material Information System)  H = 2 / F = 1 / R = 0
NFPA Rating  H = 2 / F = 1 / 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

Revision: November 02, 2018

LEGEND

LTLEL  Long Term Exposure Limit
STEL  Short Term Exposure Limit
STOT  Specific Target Organ Toxicity
DNEL  Derived No Effect Level

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PNEC  Predicted No Effect Concentration
PBT  Persistent, Bioaccumulative and Toxic
vPvB  very Persistent and very Bioaccumulative

References:

Hazard statement(s) and Precautionary statement(s)
H315: Causes skin irritation.
H319: Causes serious eye irritation.
P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

Hazard pictogram(s) and Hazard Symbol

GHS07

Training advice:

Additional Information

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