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

1.1 **Product Identifier**  
- **Product Name**: Siltech E-2148  
- **Product code**: 6064  
- **Chemical Name**: Mixture  
- **CAS No.**: 68554-54-1 / 24938-91-8 / 112-02-7 / 7732-18-5  
- **Alternative names (INCI)**: Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride

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

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**: Siltech E-2148  
- **Symbol**:  
  - **Signal word(s)**: Warning  
  - **Hazard statement(s)**: H315: Causes skin irritation.  
  H319: Causes serious eye irritation.  
- **Precautionary statement(s)**: 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.  
  P332+P313: If skin irritation occurs: Get medical advice/attention.  
  P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  P337+P313: If eye irritation persists: Get medical advice/attention.  
  P403+P233: Store in a well-ventilated place. Keep container...
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>Siloxanes and Silicones, di-Me, polymers with 3-[2-(aminoethyl) amino]propyl silsesquioxanes, hydroxy-terminated</td>
<td>Amodimethicone</td>
<td>30 - 60</td>
<td>68554-54-1</td>
<td>614-604-2</td>
<td>GHS07 H315, H319</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha.-tridecyl.-omega.-hydroxy-</td>
<td>Trideceth-12</td>
<td>4 - 9</td>
<td>24938-91-8</td>
<td>607-463-3</td>
<td>GHS05, GHS07 H302, H318</td>
</tr>
<tr>
<td>1-Hexadecanamimium, N,N,N-trimethyl-, chloride (1:1)</td>
<td>Cetrimonium chloride</td>
<td>0.5 - 9</td>
<td>112-02-7</td>
<td>203-928-6</td>
<td>GHS05, GHS07, GHS09 H302, H315, H318, H400</td>
</tr>
</tbody>
</table>

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- **Inhalation**: Remove persons affected by vapour to fresh air.
- **Skin Contact**: Remove contaminated clothing immediately and wash affected skin with soap and water. If symptoms develop, obtain medical attention.
- **Eye Contact**: If substance has got into the eyes, immediately wash out with plenty of water for several minutes. If symptoms persist, obtain medical attention.
- **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

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.

7.3 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>Methanol</td>
<td>67-56-1</td>
<td>200</td>
<td>250</td>
<td>200</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 protective clothing and gloves: (120 min break thru time)

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

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: Opaque Liquid (Milky white)
Odour: Amine odour.
Odour Threshold: Not available.
pH: 6.5 – 8.5
Melting Point/Freezing Point: Not available.
Initial boiling point and boiling range: Not available.
Flash point (PMCC): >100°C
**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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Low toxicity under normal conditions of handling and use.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

**Effects and Symptoms**

<table>
<thead>
<tr>
<th>skin corrosion/irritation</th>
<th>Repeated and/or prolonged skin contact may cause irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Delayed and chronic effects</td>
<td>Not available</td>
</tr>
<tr>
<td>Calculated acute toxicity estimate (ATE)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**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
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 / Not available

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

Contains:  
2-Phenoxyethanol (CAS# 122-99-6) 0.35%

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>✓</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>
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<tr>
<td>China (IECSO)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Japan (ENCS)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>South Korea (KECI)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taiwan (TCSI)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>New Zealand (NZIoC)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td>✓</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 = 1 / F = 1 / R = 0

NFPA Rating  
H = 1 / 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  
Specific Listing(s) not required  
Possible trace amounts of:  
Methanol (CAS# 67-56-1) < 0.008%

15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER  
None known.

15.4.3 State Right to Know Lists  
Specific Listing(s) not required  
Possible trace amounts of:  
Methanol (CAS# 67-56-1) < 0.008%
16. SECTION 16: OTHER INFORMATION

Revision: January 29, 2020

LEGEND

LTIL  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)

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.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to: Observe Local Regulations.

Hazard pictogram(s) and Hazard Symbol

![GHS07]

Additional Information

Disclaimers

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