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

1.1 **Product Identifier**
- **Product Name**: Siltech E-2231
- **Product code**: 6258.1
- **Chemical Name**: Mixture
- **CAS No.**: 67762-90-7 / 7732-18-5 / 24938-91-8 / 78330-20-8
- **Alternative names (INCI)**: Simethicone

1.2 **Recommended use of the chemical and restrictions on use**
- **Identified use(s)**: Anti-foamer (defoamer)
- **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**
- Acute Tox. 4 - Oral
- Eye Dam. 1

2.2 **Label elements**
- **Product Name**: Siltech E-2231
- **Symbol**
- **Signal word(s)**: Danger
- **Hazard statement(s)**: H302: Harmful if swallowed.
  - H318: Causes serious eye damage.
- **Precautionary statement(s)**: P262: Do not get in eyes, on skin, or on clothing.
  - P264: Wash hands and exposed skin thoroughly after handling.
  - P270: Do not eat, drink or smoke when using this product.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P403+P233: Store in a well-ventilated place. Keep container tightly closed.
  - P501: Dispose of contents/container to: Observe Local
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>Polyethylene glycol</td>
<td>tridecyl alcohol ethoxylate</td>
<td>2 - 6</td>
<td>24938-91-8</td>
<td>607-463-3</td>
<td>GHS05, GHS07 H302, H318</td>
</tr>
<tr>
<td>Alcohols, C9-11-iso-, C10-rich, ethoxylated</td>
<td>isodecyl alcohol ethoxylate</td>
<td>2 - 4</td>
<td>78330-20-8</td>
<td>616-607-4</td>
<td>GHS05, GHS07 H302, H318</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**: Remove contaminated clothing immediately and wash affected skin with soap and water.
- **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
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>

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.
- **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**: Liquid, Opaque
- **Odour**: Perceptible odour
- **Odour Threshold**: Not available
- **pH**: 7.0 – 8.0
- **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)**: 1.00
- **Solubility(ies)**: Dispersible in water
- **Partition coefficient: n-octanol/water**: Not available
- **Auto-ignition temperature**: Not available
Decomposition Temperature: Not available.
Viscosity (25°C): 500 - 2000 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: May be harmful if swallowed.
Inhalation: Low toxicity under normal conditions of handling and use.
Skin Contact: None anticipated
Eye Contact: Causes serious eye damage.

Effects and Symptoms
skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye damage.
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.
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 High Concern for Authorisation

Possible trace amounts of: (<0.005%)
Octamethylcyclotetrasiloxane (CAS# 556-67-2)
Decamethylcyclopentasiloxane (CAS# 541-02-6)
Dodecamethylcyclohexasiloxane (CAS# 540-97-6)

15.3 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>
<td></td>
</tr>
<tr>
<td>China (IECSO)</td>
<td>✓</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>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taiwan (TCSI)</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>

15.4 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 = 0 / R = 0

NFPA Rating H = 1 / F = 0 / R = 0

15.5 US State Regulations

15.5.1 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

Specific Listing(s) not required
Possible trace amounts of:
Ethylene Oxide (CAS# 75-21-8) < 1 ppm

15.5.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

Specific Listing(s) not required
Possible trace amounts of:
Ethylene Oxide (CAS# 75-21-8) < 1 ppm
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

15.5.3 State Right to Know Lists

Specific Listing(s) not required
Possible trace amounts of:
Ethylene Oxide (CAS# 75-21-8) < 1 ppm
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

16. SECTION 16: OTHER INFORMATION

Revision: October 10, 2018

LEGEND

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

Hazard statement(s) and Precautionary statement(s)
H302: Harmful if swallowed.
H318: Causes serious eye damage.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard pictogram(s) and Hazard Symbol

| GHS05 | GHS07 |

Training advice:

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.