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

1.1 **Product identifier**
- **Product Name**: Silquat 1105B
- **Product code**: 4405
- **Chemical Name**: Mixture
- **CAS No.**: Mixture

1.2 **Recommended use of the chemical and restrictions on use**
- **Identified use(s)**: Additive
- **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**
- Flam. Liq. 2
- Skin Irrit. 2
- Eye Dam. 1
- Acute Tox. 2 – Oral
- Acute Tox. 2 - Inhalation
- Acute Tox. 3 - Dermal
- STOT SE 2 – Eyes
- STOT SE 3 - Drowsiness
- Aquatic Chronic 2

2.2 **Label elements**
- **Product Name**: Silquat 1105B
- **Symbol**
  - DANGER

- **Signal word(s)**: DANGER
- **Hazard statement(s)**:
  - H225: Highly flammable liquid and vapour.
  - H315: Causes skin irritation.
  - H318: Causes serious eye damage.
  - H300: Fatal if swallowed.
  - H311: Toxic in contact with skin.
  - H330: Fatal if inhaled.
  - H336: May cause drowsiness or dizziness.
  - H371: May cause damage to organs. Eyes
  - H411: Toxic to aquatic life with long lasting effects.

- **Precautionary statement(s)**:
  - P210: Keep away from heat, hot surfaces, sparks, open
  - P240: Ground/bond container and receiving
equipment, flames and other ignition sources. No smoking.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.

2.3 Other hazards

May form explosive mixtures with air.

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>Isopropyl alcohol</td>
<td>Isopropanol</td>
<td>10-20</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>GHS02, GHS07 H225, H319, H336</td>
</tr>
<tr>
<td>Fatty acids, coco, reaction products with diethylenetriamine and soya fatty acids, ethoxylated, chlorormethane-quaternized</td>
<td>coco soya fatty acid quaternised</td>
<td>15-18</td>
<td>68604-75-1</td>
<td>614-644-0</td>
<td>GHS05, GHS07 H302, H315, H318, H412</td>
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<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td>Cocamide DEA</td>
<td>11-15</td>
<td>68603-42-9</td>
<td>271-657-0</td>
<td>GHS05 H315, H318</td>
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<tr>
<td>Methanol</td>
<td>Methyl alcohol</td>
<td>7-10</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>GHS02, GHS08, GHS06 H225, H301, H311, H331, H370</td>
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<tr>
<td>2-methylpentane-2,4-diol</td>
<td>Hexylene Glycol</td>
<td>2-5</td>
<td>107-41-5</td>
<td>203-489-0</td>
<td>GHS07 H315, H319</td>
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<tr>
<td>2,2’-iminodiethanol</td>
<td>Diethanol-amine</td>
<td>0.4-1</td>
<td>111-42-2</td>
<td>203-868-0</td>
<td>GHS08, GHS05, GHS07 H302, H315, H318, H373</td>
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<tr>
<td>2-chloroethanol</td>
<td>ECH</td>
<td>&lt;2</td>
<td>107-07-3</td>
<td>203-459-7</td>
<td>GHS02, GHS09, GHS05, GHS06 H226, H290, H300, H310, H318, H330, H411</td>
</tr>
</tbody>
</table>

Revision: 4  Page: 2/7  Date: 06/12/2018
4. **SECTION 4: FIRST AID MEASURES**

4.1 **Description of first aid measures**

**Inhalation**
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention immediately if inhaled.

**Skin Contact**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

**Eye Contact**
If substance has got into the eyes, immediately wash out with plenty of water for several minutes. Get medical attention if eye irritation develops or persists.

**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**

Causes skin irritation. Causes serious eye damage. May cause drowsiness.

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**
Do not use water jet.

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. Wear suitable respiratory protection. Remove all ignition sources.

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. Keep away from flames and hot surfaces.

**Storage Temperature**
Ambient

**Storage Life**
Stable under normal conditions.

**Incompatible materials**
Oxidizing agents, Acids, Alkaline, Peroxides

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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<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>200</td>
<td>492</td>
<td>400</td>
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<td>Methanol</td>
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<td>200</td>
<td>260</td>
<td>250</td>
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<td>Hexylene Glycol</td>
<td>107-41-5</td>
<td>25</td>
<td>125</td>
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<td></td>
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<td>Diethanolamine</td>
<td>111-42-2</td>
<td>10</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2-Chloroethanol</td>
<td>107-07-3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</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 if fumes or vapours are likely to be evolved to ensure that the defined occupational exposure limit is not exceeded.

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 protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended).

Respiratory protection

Use NIOSH approved 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

Coloured liquid (Blue)

Odour

Characteristic odour.

Odour Threshold

Not available.

pH

Not available.

Melting Point/Freezing Point

Not available.

Initial boiling point and boiling range

Not available.

Flash point (PMCC)

12°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)

0.94

Solubility(ies)

Dispersible in water.

Partition coefficient: n-octanol/water

Not available.

Auto-ignition temperature

Not available.

Decomposition Temperature

Not available.

Viscosity (25°C)

Not available.

Explosive properties

Not available.

Oxidising properties

Not available.
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
May form explosive mixtures with air.

10.4 Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

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 Fatal if swallowed.
Inhalation Fatal if inhaled.
Skin Contact Toxic by inhalation and in contact with skin.
Eye Contact Causes serious eye damage.

Effects and Symptoms
Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitization Fatal if inhaled.
Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified
STOT - single exposure Vapours may cause drowsiness and dizziness.
Can cause damage to the eyes.

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
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 UN number
1992

14.2 UN proper shipping name
FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol Solution)

14.3 Class
3(6.1) Packing group II
15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations

Candidate List of Substances of Very High Concern for Authorisation
Possible trace amounts of: (<0.05%)
- Octamethylcyclotetrasiloxane (CAS# 556-67-2)
- Decamethylclopentasiloxane (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>
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<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSL)</td>
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<td>✔️</td>
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</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
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<td>✔️</td>
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<td>New Zealand (NZIoC)</td>
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<tr>
<td>Philippines (PICCS)</td>
<td></td>
<td>X</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).

HMIS (Hazardous Material Information System)
H = 3 / F = 3 / 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
- Methanol (CAS# 67-56-1): 7 – 10%

15.4.2 Substances known to the state of California to cause cancer
- Diethanolamine (CAS# 111-42-2): 0.4 – 1.0%

15.4.3 State Right to Know Lists
- Isopropanol (CAS# 67-63-0): 10 – 20%
- Methanol (CAS# 67-56-1): 7 – 10%
- Hexylene Glycol (CAS# 107-41-5): 2-5%
- 2-Chloroethanol (CAS# 107-07-3): <2%
- Diethanolamine (CAS# 111-42-2): 0.4 – 1.0%

16. SECTION 16: OTHER INFORMATION

Revision: December 06, 2018

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)

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H300: Fatal if swallowed.
H311: Toxic in contact with skin.
H330: Fatal if inhaled.
H336: May cause drowsiness or dizziness.
H371: May cause damage to organs.
H401: Toxic to aquatic life.
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P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.

Hazard pictogram(s) and Hazard Symbol

Additional Information

Disclaimers

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