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

1.1 Product identifier
   Product Name: Silquat A0
   Product code: 3670
   Chemical Name: 1-Propanaminium, N,N-diethyl-2-hydroxy-N-methyl-3-[3-[1,3,3,3-trimethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-,chloride (1:1)
   CAS No.: 1538603-86-9 / 107-41-5

1.2 Recommended use of the chemical and restrictions on use
   Identified use(s): 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: Silquat A0
   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.
                              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.
2.3 Other hazards

None known

### 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>1-Propanaminium, N,N-diethyl-2-hydroxy-N-methyl-3-[3-[1,3,3,3-trimethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-chloride (1:1)</td>
<td>n/a</td>
<td>50 - 70</td>
<td>1538603-86-9</td>
<td>806-550-5</td>
<td>GHS07: H315, H319</td>
</tr>
<tr>
<td>2-methylpentane-2,4-diol</td>
<td>Hexylene Glycol</td>
<td>30 - 50</td>
<td>107-41-5</td>
<td>203-489-0</td>
<td>GHS07: H315, H319</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. 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.

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.

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>
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</thead>
<tbody>
<tr>
<td>Hexylene Glycol</td>
<td>107-41-5</td>
<td>25 ppm</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 neoprene or nitrile gloves.

Respiratory protection

Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

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

Coloured liquid (Yellow)

Odour

Perceptible 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) 98°C
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits Not available.
Vapour pressure 7 Pa @ 20°C
Vapour density Not available.
Relative density / Specific Gravity (25°C) 1.00
Solubility(ies) Soluble in water.
Partition coefficient: n-octanol/water 2.68 ±0.85 @ 21°C
Auto-ignition temperature 275°C
Decomposition Temperature Not available.
Viscosity (25°C) 250 - 450 cps
Explosive properties Negative.
Oxidising properties Negative.

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 Hexylene Glycol [LD50 (oral, rat) mg/kg: 3700]
Inhalation High concentrations of vapour may be irritant to the respiratory tract.
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 The product is not biodegradable.
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. 01-2120787461-48-0000 / 01-2119539582-35-xxxx
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)

15.2 International Invenories

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<thead>
<tr>
<th>Country</th>
<th>Listed</th>
<th>Not listed</th>
<th>Polymer exempt</th>
<th>Other</th>
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<tbody>
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<td>United States (TSCA)</td>
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<tr>
<td>Canada (DSL/NDSL)</td>
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<tr>
<td>European Union (EINECS/ELINCS)</td>
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<td>Australia (AICS)</td>
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<td>China (IECSO)</td>
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<td>Japan (ENCS)</td>
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<td>Philippines (PICCS)</td>
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</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) 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 Hexylene glycol (CAS#107-41-5) : 30 - 50%

16. SECTION 16: OTHER INFORMATION

Revision: November 07, 2018

LEGEND
LTEL Long Term Exposure Limit
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.
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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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