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

1.1 Product identifier

Product Name: Silquat 3152
Product code: 4452
Chemical Name: Mixture
CAS No.: 588707-20-4 / 68603-42-9 / 61790-41-8 / 67-63-0 / 64-17-5

1.2 Recommended use of the chemical and restrictions on use

Identified use(s): Additive
Uses advised against: Not available

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
Eye Irrit. 2
STOT SE 3 - Inhalation

2.2 Label elements

Product Name: Silquat 3152
Symbol: DANGER

Signal word(s): DANGER
Hazard statement(s): H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary statement(s): P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
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>2-Propanol</td>
<td>20 - 30</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>GHS02, GHS07 H225, H319, H336</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>Ethanol</td>
<td>5 - 15</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>GHS02 : H225</td>
</tr>
</tbody>
</table>

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

None known.

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. Eliminate all ignition sources if safe to do so.

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. Ground/bond container and receiving equipment. 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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1000</td>
<td>1920</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
Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved.

Thermal hazards
Flammable liquid

8.2.3 Environmental Exposure Controls
Avoid release to the environment.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid (Yellow)</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point (PMCC)</td>
<td>12°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density / Specific Gravity (25°C)</td>
<td>0.95</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Dispersible in water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity (25°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause irritation</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>May cause irritation</td>
</tr>
</tbody>
</table>

Effects and Symptoms

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>skin corrosion/irritation</td>
<td>Repeated and/or prolonged skin contact may cause irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</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>May be harmful if inhaled. May cause drowsiness and dizziness.</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 national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number 1993
14.2 UN Proper Shipping Name FLAMMABLE LIQUIDS N.O.S. (Isopropanol solution)
14.3 Transport hazard class(es) 3
14.4 Packing Group II

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)
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>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China (IECSO)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan (ENCS)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Korea (KECI)</td>
<td>X</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>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15.4 National regulations
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 = 3 / R = 0
NFPA Rating H = 2 / F = 3 / R = 0

15.5 US State Regulations
15.5.1 SUBSTANCES KNOWN TO THE STATE OF None known.
CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

15.5.2 Substances Known to the State of California to Cause Cancer
None known.

15.5.3 State Right to Know Lists
Isopropanol (CAS# 67-63-0) 20 – 30%
Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%

16. Section 16: Other Information

References:
Hazard statement(s) and Precautionary statement(s)
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: 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.
P337+P313: If eye irritation persists: Get medical advice/attention.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.

Hazard pictogram(s)

![GHS02](image)
![GHS07](image)

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