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

1.1 Product identifier
- **Product Name**: Siltech CF-954
- **Product code**: 0025
- **Chemical Name**: Octamethylcyclotetrasiloxane
- **CAS No.**: 556-67-2
- **Alternative names (INCI)**: Cyclotetrasiloxane

1.2 Recommended use of the chemical and restrictions on use
- **Identified use(s)**: PC39 Cosmetics, personal care products
- **Uses advised against**: Solvent, PC19 Intermediate

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.**: 3
- **Repr.**: 2
- **Aquatic Chronic**: 4

2.2 Label elements
- **Product Name**: Siltech CF-954

- **Signal word(s)**: WARNING
- **Hazard statement(s)**:
  - H226: Flammable liquid and vapour.
  - H361: Suspected of damaging fertility or the unborn child.
  - H413: May cause long lasting harmful effects to aquatic life.
- **Precautionary statement(s)**:
  - P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P240: Ground/bond container and receiving equipment.
  - P242: Use only non-sparking tools.
  - P243: Take precautionary measures against static discharge.
  - P262: Do not get in eyes, on skin, or on clothing.
  - P273: Avoid release to the environment.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P305+P351+P338: IF IN EYES: Rinse cautiously with water
for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 Substances

<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>Octamethylcyclotetrasiloxane</td>
<td>D4 Cyclotetrasiloxane</td>
<td>100</td>
<td>556-67-2</td>
<td>209-136-7</td>
<td>GHS02, GHS08 H226, H361f, H413</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: Unlikely to be required but if necessary treat symptomatically.
Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for several minutes.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Suspected of damaging fertility or the unborn child.

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

May form explosive mixtures with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. 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

Remove all ignition sources. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Avoid release to the environment.

6.2 Environmental precautions

Use non-sparking equipment when picking up flammable spill. Caution - spillages may be slippery. Cover spills with inert absorbent material. Transfer to a container for
6.4 Reference to other sections

See Section: 7 & 8.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ground/bond container and receiving equipment. Take precautionary measures against static discharges. 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

- Storage Temperature: Ambient
- Storage Life: Stable under normal conditions.
- Incompatible materials: Do not store and transport with oxidizers etc. (Organic peroxide, Flammable solid, Pyrophoric liquid, Pyrophoric solid, Self-heating substance or mixture, Substance or mixture which in contact with water emits flammable gas, Flammable gas, Explosive, Gas)

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>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>10 ppm</td>
<td></td>
<td></td>
<td></td>
<td>US WEEL</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, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved.

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 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colourless liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Almost odourless.</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>17.5°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>175°C @ 760mmHg</td>
</tr>
<tr>
<td>Flash point (PMCC)</td>
<td>57°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>7.4% : 0.75% (V)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.12 hPa</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>Insoluble in water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>5.1</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>400°C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity (25°C)</td>
<td>2 cps</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 | Reacts with strong oxidizing substances. May form explosive vapour/air mixtures. Flammable liquid and vapour. |
10.4 Conditions to avoid            | Keep away from oxidisers, heat, flames or ignition sources. |
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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>LD50 (oral, rat) mg/kg: &gt;4800</td>
</tr>
<tr>
<td>Inhalation</td>
<td>LC50 (inhalation, rat) mg/l/4h: 36</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>LD50 (skin, rat) mg/kg: &gt;2400</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>None anticipated</td>
</tr>
</tbody>
</table>

Effects and Symptoms

- skin corrosion/irritation: Not classified
- Serious eye damage/irritation: Not classified
- Respiratory or skin sensitization: Not classified
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Inconclusive data.
- Reproductive toxicity: May damage fertility. Suspected of damaging the unborn child.
- 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

Other information

Recent results from a 2 year repeated vapour inhalation exposure study to rats of D4 indicate effects (benign uterine...
adenomas) in the uterus of female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure does (700 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D4 do not represent a risk to humans.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
LC50 (rainbow trout) mg/l: > 0.022 (96hr)
LC50 (sheepshead minnow) mg/l: > 0.0063 (14d)

12.2 Persistence and degradability
Not readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential
Bioconcentration factor (BCF) : > 3000

12.4 Mobility in soil
The substance is predicted to have low mobility in soil.

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 Proper Shipping Name
FLAMMABLE LIQUIDS N.O.S. (Octamethylcyclotetrasiloxane)

14.3 Class
3 Packing group III

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations
REACH Registration No. Not available.

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 (IECSC)</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 = 2 / R = 0

NFPA Rating
H = 1 / F = 2 / 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
None known.
15.5.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER
None known.
15.5.3 State Right to Know Lists
None known.

16. SECTION 16: OTHER INFORMATION
Revision: June 01, 2018

**LEGEND**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTEL</td>
<td>Long Term Exposure Limit</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>STOT</td>
<td>Specific Target Organ Toxicity</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No Effect Concentration</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

**References:**

Hazard statement(s) and Precautionary statement(s)
H226: Flammable liquid and vapour.
H361: Suspected of damaging fertility or the unborn child.
H413: May cause long lasting harmful effects to aquatic life.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground/bond container and receiving equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P262: Do not get in eyes, on skin, or on clothing.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Hazard pictogram(s) and Hazard Symbol**

![GHS02](image1.png) ![GHS08](image2.png)

Training advice:

Additional Information

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