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

1.1 Product identifier

Product Name: Siltech CE-2000
Product code: 8002
Chemical Name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, 1,2,3-tris(2-octyldodecyl) ester
CAS No.: 126121-35-5
Alternative names (INCI): Trioctyldodecyl Citrate

1.2 Recommended use of the chemical and restrictions on use

Identified use(s): PC39 Cosmetics, personal care products
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 Wolfdale 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

Aquatic Chronic 4

2.2 Label elements

Product Name: Siltech CE-2000
Symbol: NONE
Signal word(s): NONE
Hazard statement(s): H413: May cause long lasting harmful effects to aquatic life.
Precautionary statement(s): P273: Avoid release to the environment.
P501: Dispose of contents/container to: Observe Local Regulations.

2.3 Other hazards

None known

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>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, 1,2,3-tris(2-octyldodecyl) ester</td>
<td>Trioctyldodecyl Citrate</td>
<td>&gt;99</td>
<td>126121-35-5</td>
<td>603-121-2</td>
<td>H413</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: 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, 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
Carbon oxides may be formed.

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
- 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

8.1.3 PNECs and DNELs

8.2 Exposure controls
8.2.1 Appropriate engineering controls

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

Colourless to yellowish liquid.

Odour

Faint.

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)

>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)

0.89

Solubility(ies)

Insoluble 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 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.
Product: Siltech CE-2000  
SDS #: 8002

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)  Carbon oxides may be formed.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects  
**Acute toxicity**
- **Ingestion**  
  LD50 (oral, rat) mg/kg: > 5000
- **Inhalation**  
  Low toxicity under normal conditions of handling and use.
- **Skin Contact**  
  LD50 (skin, rat) mg/kg: > 2000
- **Eye Contact**  
  None anticipated

**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**  
  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  
May cause long lasting harmful effects to aquatic life.
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. 01-2120771836-41-0001
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>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSL)</td>
<td></td>
<td></td>
<td>ICL</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>IECIC</td>
<td></td>
</tr>
<tr>
<td>Japan (ENCS)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Korea (KECI)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taiwan (TSI)</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>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15.4 National regulations

<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>HMIS (Hazardous Material Information System)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NFPA Rating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19, 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>

Hazard statement(s) and Precautionary statement(s)

- H413: May cause long lasting harmful effects to aquatic life.
- P273: Avoid release to the environment.
- P501: Dispose of contents/container to: Observe Local Regulations.

Hazard pictogram(s) and Hazard Symbol

NONE

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.