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

1.1 Product identifier
Product Name: SilPlex J2-S
Product Code: 6041
Chemical Name: Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono (hydrogen succinate)
CAS No.: 280569-78-0 / 107-41-5
Alternative names (INCI): Silicone Quaternium-20

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 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. 3

2.2 Label elements
Product Name: SilPlex J2-S
Symbol: NONE
Signal word(s): Warning
Hazard statement(s): H316: Causes mild skin irritation.
Precautionary statement(s): P332+P313: If skin irritation occurs: 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>2-methylpentane-2,4-diol</td>
<td>Hexylene Glycol</td>
<td>15 - 25</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
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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
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. See Section: 7 & 8.

6.4 Reference to other sections
See Section:

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>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 suitable gloves if prolonged skin contact is likely. Nitrile rubber, Neoprene, Rubber

Respiratory protection
Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved.

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 (Amber)
Odour Characteristic odour.
Odour Threshold Not available.
pH Not available.
Melting Point/Freezing Point Not available.
Initial boiling point and boiling range 198°C @ 760mmHg
Flash point (PMCC) 102°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) 1.04
Solubility(ies) Soluble in water.
Partition coefficient: n-octanol/water Not available.
Auto-ignition temperature Not available.
Decomposition Temperature Not available.
Viscosity (25°C) 400 - 1000 cps
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.
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 May be harmful if swallowed.
Ingestion Low toxicity under normal conditions of handling and use.
Inhalation Mist may cause irritation.
Skin Contact: May cause irritation
Eye Contact: May cause irritation

**Effects and Symptoms**

- **Skin corrosion/irritation**: Causes mild skin irritation.
- **Serious eye damage/irritation**: Not classified.
- **Respiratory or skin sensitization**: Not classified.
- **Germ cell mutagenicity**: 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**: 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. 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.**: Polymer exempt.
   - **Candidate List of Substances of Very High Concern for Authorisation**: Possible trace amounts of:
     - Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.01%
     - Decamethylcyclopentasiloxane (CAS# 541-02-6) < 0.01%
     - Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.01%
     - 1,4-Dioxane (CAS# 123-91-1) < 1 ppm

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>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (DSL/NDSL)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
<td></td>
<td>✓</td>
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<tr>
<td>Australia (AICS)</td>
<td>X</td>
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<td></td>
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<tr>
<td>China (IECSC)</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>
</tbody>
</table>

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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)
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
Specific Listing(s) not required
Possible trace amounts of:
- Ethylene Oxide (CAS# 75-21-8) < 1 ppm

15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER
Specific Listing(s) not required
Possible trace amounts of:
- Ethylene Oxide (CAS# 75-21-8) < 1 ppm
- 1,4-Dioxane (CAS# 123-91-1) < 1 ppm

15.4.3 State Right to Know Lists
Hexylene glycol (CAS#107-41-5) : 15 - 25%
Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 100 ppm
Ethylene Oxide (CAS# 75-21-8) < 1 ppm
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

16. SECTION 16: OTHER INFORMATION

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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)
H316: Causes mild skin irritation.
P332+P313: If skin irritation occurs: Get medical advice/attention.

Hazard pictogram(s) and Hazard Symbol
NONE

Additional Information

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