




# SAFETY DATA SHEET

WHMIS 2015 • OSHA HCS (29 CFR 1910.1200) • NOM-018-STPS-2015

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

|  |  |
|--|--|
| <b>1.1 Product identifier</b>                                      |  |
| Product Name   | <b>Silsurf A010-D-UP</b>   |
| Product code   | 2002.5   |
| Chemical Name  | Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether<br>134180-76-0 |
| CAS No.  |  |
| <b>1.2 Recommended use of the chemical and restrictions on use</b> |  |
| Identified use(s)  | Additive, Surface active agent, Wetting agent  |
| Uses advised against   | None known   |
| <b>1.3 Details of the supplier of the Safety Data Sheet</b>        |  |
| Company Identification   | Siltech Corp<br>225 Wicksteed Ave<br>Toronto, ON Canada M4H 1G5<br>+1-416-424-4567<br>+1-416-424-3158<br>raj@siltech.com                 |
| Telephone  |  |
| Fax  |  |
| E-Mail (competent person)  |  |
| Additional Location  | Siltech Corp<br>3265 Wolfedale Road<br>Mississauga, ON Canada L5C 1V8<br>+1-905-270-5534<br>+1-905-270-5816                              |
| Telephone  |  |
| Fax  |  |
| <b>1.4 Emergency telephone number</b>                              |  |
| Emergency Phone No.  | <b>CANUTECH - TELEPHONE: EMERGENCY USE ONLY<br/>+1-613-996-6666</b>  |

## 2. SECTION 2: HAZARDS IDENTIFICATION

|   |  |
|---|--|
| <b>2.1 Classification of the substance or mixture</b> |  |
|   | <b>Acute Tox. 4 - Inhalation</b><br><b>Eye Irrit. 2</b><br><b>Aquatic Chronic 2</b>  |
| <b>2.2 Label elements</b>                             |  |
| Product Name  | <b>Silsurf A010-D-UP</b>   |
| Symbols   |    |
| Signal word(s)  | <b>Warning</b>   |
| Hazard statement(s)                                   | H332: Harmful if inhaled.<br>H319: Causes serious eye irritation.<br>H411: Toxic to aquatic life with long lasting effects.  |
| Precautionary statement(s)                            | P261: Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264: Wash hands and exposed skin thoroughly after handling.<br>P271: Use only outdoors or in a well-ventilated area.<br>P273: Avoid release to the environment.<br>P280: Wear protective gloves/protective clothing/eye protection/face protection.<br>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>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+P233: Store in a well-ventilated place. Keep container tightly closed.  
P501: Dispose of contents/container to: Observe Local Regulations.  
None known

2.3 Other hazards

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Hazardous ingredient(s)   | Synonym(s)  | %W/W | CAS No.     | EC No.    | Hazard pictogram(s) and Hazard statement(s) |
|---|---|------|-------------|-----------|---|
| Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[[trimethylsilyloxy]-1-disiloxy]propyl] ether | 2-methyloxirane; 3-(2,2,4,6,6-pentamethyl-3,5-dioxo-2,4,6-trisilaheptan-4-yl)propan-1-ol; oxirane | > 95 | 134180-76-0 | 603-798-4 | GHS07,GHS09<br>H319, H332, H411             |

### 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If inhaled, give oxygen or artificial respiration, call a physician.

Skin Contact

Gently wash with plenty of soap and water.

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

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 foam, water spray or fog to extinguish. Keep containers cool by spraying with water if exposed to fire.

Unsuitable Extinguishing Media

Dry Chemical

#### 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

Caution - spillages may be slippery. Cover spills with inert

- 6.4 cleaning up** absorbent material. Transfer to a container for disposal.  
**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. Keep away from strong oxidizing substances.  
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**

| SUBSTANCE     | CAS No. | LTEL<br>(8 hr TWA ppm) | LTEL<br>(8 hr TWA mg/m <sup>3</sup> ) | STEL<br>(ppm) | STEL<br>(mg/m <sup>3</sup> ) | Note |
|---------------|---------|------------------------|---------------------------------------|---------------|------------------------------|------|
| None assigned |         |                        |                                       |               |                              |      |

- 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.  
Plastic or rubber gloves
- 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 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)   | 1.03              |
| Solubility(ies)                              | Soluble in water. |
| Partition coefficient: n-octanol/water       | Not available.    |
| Auto-ignition temperature                    | Not available.    |
| Decomposition Temperature                    | Not available.    |
| Viscosity (25°C)                             | 50 – 100 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                | Protect from moisture.  |
| 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                                 | LD50 (oral,rat) mg/kg: > 2000            |
| Inhalation                                | LC50 (inhalation) mg/l/4h: 1.08 (rabbit) |
| Skin Contact                              | LD50 (skin,rabbit) mg/kg: > 2000         |
| Eye Contact                               | Causes eye irritation.                   |
| Effects and Symptoms                      |  |
| skin corrosion/irritation                 | Not classified                           |
| 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                           | Toxic to aquatic life with long lasting effects.          |
| 12.2 Persistence and degradability      | This substance is predicted to degrade in soil and water. |
| 12.3 Bioaccumulative potential          | The substance has low potential for bioaccumulation.      |
| 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                  | 3082   |
| 14.2 | UN Proper Shipping Name    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-(methyl-bis(trimethylsilyloxy)silyl)propan-1-ol; 2-methyloxirane) |
| 14.3 | Transport hazard class(es) | 9  |
| 14.4 | Packing Group              | III  |
| 14.5 | Environmental hazards      | Marine Pollutant   |



## 15. SECTION 15: REGULATORY INFORMATION

|      |   |  |
|------|---|--|
| 15.1 | <b>EU regulations</b>   |  |
|      | REACH Registration No.  | Polymer exempt.  |
|      | Candidate List of Substances of Very High Concern for Authorisation | Possible trace amounts of:<br>Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.01%<br>Decamethylcyclopentasiloxane (CAS# 541-02-6) < 0.01%<br>Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.01%<br>Propylene Oxide (CAS# 75-56-9) < 1 ppm<br>1,4-Dioxane (CAS# 123-91-1) < 1 ppm |

### 15.2 International Inventories

| Country                        | Listed | Not listed | Polymer exempt | Other |
|--------------------------------|--------|------------|----------------|-------|
| United States (TSCA)           | ✓      |            |                |       |
| Canada (DSL/NDSL)              | NDSL ✓ |            |                | *     |
| European Union (EINECS/ELINCS) |        |            | ✓              |       |
| Australia (AICS)               | ✓      |            |                |       |
| China (IECSC)                  | ✓      |            |                |       |
| Japan (ENCS)                   | ✓      |            |                |       |
| South Korea (KECI)             | ✓      |            |                |       |
| Taiwan (TCSI)                  | ✓      |            |                |       |
| New Zealand (NZIoC)            | ✓      |            |                |       |
| Philippines (PICCS)            | ✓      |            |                |       |
|                                |        |            |                |       |

### 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). |
| HMIS (Hazardous Material Information System) | <b>H = 1 / F = 1 / R = 0</b>   |
| NFPA Rating                                  | <b>H = 1 / F = 1 / R = 0</b>   |

### 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<br>Possible trace amounts of:<br><b>Ethylene Oxide (CAS# 75-21-8) &lt; 1 ppm</b>  |
| 15.4.2 | SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER                                   | Specific Listing(s) not required<br>Possible trace amounts of:<br><b>Ethylene Oxide (CAS# 75-21-8) &lt; 1 ppm</b><br><b>Propylene Oxide (CAS# 75-56-9) &lt; 1 ppm</b><br><b>1,4-Dioxane (CAS# 123-91-1) &lt; 1 ppm</b> |
| 15.4.3 | State Right to Know Lists   | Specific Listing(s) not required<br>Possible trace amounts of:<br><b>Octamethylcyclotetrasiloxane (CAS# 556-67-2) &lt; 100 ppm</b><br><b>Ethylene Oxide (CAS# 75-21-8) &lt; 1 ppm</b>                                  |

Propylene Oxide (CAS# 75-56-9) < 1 ppm  
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

## 16. SECTION 16: OTHER INFORMATION

Revision: September 08, 2022

### Hazard statement(s) and Precautionary statement(s)

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

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.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician 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.

### Hazard pictogram(s)



GHS07 GHS09

### Disclaimers

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