




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

1.1 Product identifier	
Product Name	Silsurf 400R
Product code	2883.3
Chemical Name	Mixture
CAS No.	541-02-6 / 151662-01-0
Alternative names (INCI)	Cyclopentasiloxane & PEG/PPG-18/18 Dimethicone
1.2 Recommended use of the chemical and restrictions on use	
Identified use(s)	PC39 Cosmetics, personal care products Surface active agent
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)	marsha.carter@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.	CANUTEC - TELEPHONE: EMERGENCY USE ONLY +1-613-996-6666

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
	Flammable Liquid Category 4 Repr. 2
2.2 Label elements	
Product Name	Silsurf 400R
Symbol	
Signal word(s)	Warning
Hazard statement(s)	H227: Combustible liquid. H361f: Suspected of damaging fertility.
Precautionary statement(s)	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/protective clothing/eye protection/face protection. P308+P313: IF exposed or concerned: Get medical advice/attention. 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 Mixtures

Hazardous ingredient(s)	Synonym(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
Decamethylcyclopentasiloxane	D5	85 - 95	541-02-6	208-764-9	H227
Octamethylcyclotetrasiloxane	D4	< 0.3	556-67-2	209-136-7	GHS02, GHS08, GHS09 H226, H361f, H410

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing.
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, 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 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. Eliminate sources of ignition.
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**
 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 (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	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.
- Respiratory protection  In case of inadequate ventilation wear respiratory protection.
- Thermal hazards  Combustible liquid
- 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: Liquid - Slightly hazy.
 Odour: Perceptible odour.
 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): 77°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)	0.96
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity (25°C)	40 – 600 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	Keep away from fire, sparks and heated surfaces - 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	
Ingestion	D5: LD50 (oral,rat) mg/kg: > 24,134
Inhalation	D5: LC50 (inhalation,rat) mg/l/4h: 8.67
Skin Contact	None anticipated
Eye Contact	None anticipated
Effects and Symptoms	
skin corrosion/irritation	Not classified
Serious eye damage/irritation	Mild irritant to rabbit eyes.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility.
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	Not available.
12.3 Bioaccumulative potential	Identified as a vPvB according to REACH Annex XIII.
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

<p>14.1 TDG / Road/Rail (ADR/RID)</p> <p>14.2 Air (ICAO/IATA)</p> <p>14.3 Sea (IMDG)</p> <p>UN number</p> <p>UN proper shipping name</p> <p>Class</p>	<p>Not classified as dangerous for transport.</p> <p>Not classified as hazardous for air transport.</p> <p>Marine Pollutant</p> <p>3082</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cyclosiloxanes)</p> <p>9 Packing group III</p>	
<p>14.4 DOT / CFR (US Department of Transportation)</p> <p>DOT Proper Shipping Name</p> <p>Class</p> <p>UN number</p>	<p>(Applicable only to containers > 119 gallons or 450 L)</p> <p>Combustible liquid, N.O.S. (Decamethylcyclopentasiloxane solution)</p> <p>3 Packing group III</p> <p>1993</p>	

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations

REACH Registration No. 01-2119511367-43-xxxx / Polymer exempt

Candidate List of Substances of Very High Concern for Authorisation Decamethylcyclopentasiloxane (CAS# 541-02-6) 85 – 95%

Possible trace amounts of:

- Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.3%
- Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%
- Propylene Oxide (CAS# 75-56-9) < 1 ppm
- 1,4-Dioxane (CAS# 123-91-1) < 1 ppm

15.2 International Inventories

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

15.3 National regulations

<p>United States (TSCA)</p> <p>HMIS (Hazardous Material Information System)</p> <p>NFPA Rating</p>	<p>TSCA Inventory Status : All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).</p> <p>H = 1 / F = 2 / R = 0</p> <p>H = 1 / F = 2 / R = 0</p>
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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
Propylene Oxide (CAS# 75-56-9) < 1 ppm
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

15.4.3 State Right to Know Lists

Specific Listing(s) not required
Possible trace amounts of:
Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.3%
Ethylene Oxide (CAS# 75-21-8) < 1 ppm
Propylene Oxide (CAS# 75-56-9) < 1 ppm
1,4-Dioxane (CAS# 123-91-1) < 1 ppm

16. SECTION 16: OTHER INFORMATION

Revision: August 09, 2023

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)

H227: Combustible liquid.

H361f: Suspected of damaging fertility.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P308+P313: IF exposed or concerned: 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) and Hazard Symbol



GHS08

Additional Information

Disclaimers

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