



SILTECH CORP.

Safety Data Sheet

Prepared in accordance with GHS standard
& Annex II - EC regulation 1907/2006 and amendments

Silsurf A010-D-UP
SDS No: 2002.5

Last Revision Date: January 10, 2014

SECTION 1. IDENTIFICATION

Material Identification: Silsurf A010-D-UP

Chemical Name: Polydimethylsiloxane Copolymer

Chemical Classification: Silicone

CAS #: 134180-76-0

Company Identification: Siltech Corp.

225 Wicksteed Avenue

Toronto, Ontario

Canada

M4H 1G5

(416) 424-4567

Recommended Product Usage

surface-active agents

additives

softeners

CANUTEC 24-HOUR EMERGENCY RESPONSE TELEPHONE NUMBER: (613) 996-6666

USE IN CASE OF A DANGEROUS GOODS EMERGENCY

SECTION 2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Eye irritation

Category 2

Acute toxicity

Category 4 (inhalation)

Chronic aquatic toxicity

Category 3

GHS LABEL ELEMENTS (including precautionary statements):

Symbol :



Signal Word:

Warning

Hazard Risk Statement:

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement:

Prevention:

P261: Avoid breathing mist/vapours/spray.

P273: Avoid release to the environment.

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

Response:

P351 + P313: IF IN EYES: Rinse cautiously with water for several minutes.

Get medical advice/attention.

P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container in accordance with local / regional / national / international regulations.

OTHER HAZARD (risk not included in classification):

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components according to GHS regulations:

<u>Chemical Name</u>	<u>Common Name or Synonym</u>	<u>CAS No.</u>	<u>EINECS/ ELINCS No.</u>	<u>% (w/w)</u>	<u>GHS Classification</u>
Polyalkyleneoxide modified Heptamethyltrisiloxane	Polyether modified trisiloxane	134180-76-0	Exempt or not available	> 80.0	Eye irritation : Category 2 Acute toxicity : Category 4 Chronic aquatic toxicity : Category 3

Hazardous components according to EC directive 91/155/EEC and amendment:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS/ ELINCS No.</u>	<u>Wt%</u>	<u>CLASSIFICATION</u>
Polyalkyleneoxide modified Heptamethyltrisiloxane	134180-76-0	Exempt or not available	> 80.0	Xn R20, R36, R52/53

Other ingredients not listed in this section are non-hazardous or business confidential.

SECTION 4. FIRST AID MEASURES

Eyes: Immediately flush with water for 15 minutes. Obtain medical attention if irritation occurs.

Skin: Remove contaminated clothing and wash with soap and water. Obtain medical attention if irritation occurs.

Inhalation: If first aid is required move victim to fresh air.

Ingestion: Do not induce vomiting and obtain medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry powder, foam, or water spray. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: Silicon Dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

Special Protective Actions for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Use water spray to cool fire exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Avoid eye contact. Use personal protective equipment.

Environmental Precautions: Prevent from entering drains or water sources.

Containment/Clean up: Collect for disposal. Clean up remaining materials from spill with suitable absorbent. For large spills provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean area as appropriate since some silicone material, even in small quantities, may present a slip hazard. Final cleaning may require steam, solvents or detergents.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid eye and skin contact. Do not take internally. Use with adequate ventilation. Wash after handling. Exercise good industrial hygiene practice.

Storage Conditions: Keep container tightly closed and away from oxidizing materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT VALUES / BIOLOGICAL LIMIT VALUES:

Industrial Hygiene Standards

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>
None known.		

ENGINEERING CONTROLS:

Local Ventilation: Recommended.

General ventilation: Recommended.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection: Chemical protective gloves are recommended (PVC).

Eye protection: Use proper protection - safety glasses as a minimum.

Skin protection: Impervious clothing.

Hygiene measures: Observe good industrial hygiene practices. Wash after handling.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Clear Liquid	<u>Viscosity@25°C:</u>	50 - 100 cps
<u>Colour:</u>	Colourless to Yellow	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Faint	<u>Initial Boiling Point:</u>	>100°C @ 760 mmHg
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	>100°C (Pensky-Martens closed cup)	<u>Explosive Properties:</u>	No
<u>Flammability:</u>	Not determined	<u>Vapour Pressure @25°C:</u>	Not determined
<u>Flammability Limits:</u>	Not determined	<u>Vapour Density:</u>	Not determined
<u>Auto-ignition Temperature:</u>	Not determined	<u>Partition Coefficient:</u>	Not determined
<u>Decomposition Temperature:</u>	Not determined	<u>pH:</u>	Not determined
<u>Specific Gravity @25°C:</u>	1.03	<u>Oxidising Properties:</u>	No
<u>Solubility in Water:</u>	Soluble	<u>Evaporation Rate:</u>	Not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing material can cause a reaction.

Hazardous Decomposition Products: The following decomposition products may form during fire or at very high temperatures:

Carbon Oxides, Silicon dioxide, Formaldehyde, and traces of incompletely burned carbon compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Respiratory:	Exposure is expected.
Oral:	Exposure is expected.
Eye, Skin:	Exposure is expected.

INFORMATION ON THE HEALTH HAZARDS:

Acute Toxicity:

Eyes:	Direct contact may cause severe irritation.
Skin:	LD50: rat (dose >2,000mg/kg, method = OECD 402)
Inhalation:	LC50 aero. : rat (dose = 1.08mg/l, exposure time = 4hr, method = OECD 403)
Ingestion:	LD50: rat (dose >2,000mg/kg, method = OECD 401)

Chronic Toxicity:

Skin:	No known applicable information.
Inhalation:	No known applicable information.
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
Other Health Hazard	No known applicable information.

Skin Corrosion/Irritation: Rabbit: slight irritant effect ó does not require labelling, method = OECD 404

Serious Eye Damage/Irritation: Rabbit: moderate irritant, method = OECD 405

Respiratory Sensitization: No known applicable information.

Skin Sensitization: No known applicable information.

Carcinogenicity: No known applicable information.

Germ Cell Mutagenicity: No known applicable information.

Reproductive Toxicity: No known applicable information.

Specific Target Organ: No known applicable information.
(Systemic Toxicity ó Single exposure)

Specific Target Organ: No known applicable information.
(Systemic Toxicity ó Repeated exposure)

Aspiration Hazard: No known applicable information.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Environmental Effects

Toxicity to fish:

LC50: sunfish (dose = 15mg/l, exposure time = 96hr)

Toxicity to daphniae

EC50: daphnia magna (dose = 177mg/l, exposure time = 48hr)

PERSISTENCE AND DEGRADABILITY:

Degradation:

In soil, siloxanes are degraded.

Environmental Fate and Distribution:

Siloxanes are removed from water by sedimentation sewage or binding to sludge.

BIOACCUMULATIVE POTENTIAL:

Bioaccumulation:

No bioaccumulation potential.

MOBILITY IN SOIL:

None known.

OTHER ADVERSE EFFECTS:

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORTATION INFORMATION

AIR TRANSPORT (IATA):

Not subject to IATA regulations.

SEA TRANSPORT (IMDG):

Not subject to IMDG code.

ROAD / RAIL

US DOT (49 CFR 172.101): Not subject to DOT regulations.

CANADA TDG: Not subject to TDG regulations.

ADR/RID: Not subject to ADR/RID regulations.

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA:	(USA)	All ingredients are on the inventory.
DSL/NDSL:	(Canada)	Not currently listed
EINECS:	(EU)	All ingredients are on or exempted from the inventory.
AICS:	(Australia)	All ingredients are on the inventory.
IECSC:	(China)	All ingredients are on the inventory.
MITI:	(Japan)	All ingredients are on the inventory.
KECL:	(Korea)	All ingredients are on the inventory.
NZIoC:	(New Zealand)	All ingredients are on the inventory.
CSNN:	(Taiwan)	All ingredients are on the inventory.
PICCS:	(Philippines)	All ingredients are on the inventory.

CANADA

This product has been classified in accordance with the hazard criteria of the CPR, and this MSDS contains all the information required by the CPR.

WHMIS Classification: CLASS D Division 2B.

USA

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances (40 CFR 355):	None
Section 304 CERCLA Hazardous Substances (40 CFR 302):	None
Section 311/312 Hazard Class (40 CFR 370):	Acute: No ; Chronic: No ; Fire: No ; Pressure: No ; Reactive: No
Section 313 Toxic Chemicals (40 CFR 372):	None

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: **None known.**

Massachusetts / New Jersey / Pennsylvania

No ingredients regulated by MA/NJ/PA Right-to-know Laws present.

HMIS		NFPA	
H	1	1	0
F	1	1	0
R	0	0	0

EEC

Labelling according to EEC Directive

Symbols: Xn (Harmful)

R-phrases:

R20 (Harmful by inhalation)

R36/38 (Irritating to eyes)

R52/53 (Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment)

GERMANY

TA Luft (Germany) : Class 6 Paragraph 5.2.5 (no class)

Water contaminating class: 2 (Classification according to German law)

SECTION 16. OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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