



SILTECH CORP.

Safety Data Sheet

Prepared in accordance with GHS standard
& EC directive 91/155/EEC and amendment

Silstab 2450
SDS No: 2702

Last Revision Date: September 27, 2012

SECTION 1. IDENTIFICATION

Material Identification: Silstab 2450

Chemical Name: Block copolymer of dimethylsiloxane and a polyoxyalkylene
Chemical Classification: Silicone
CAS #: 68937-55-3 / 9016-45-9

Company Identification: Siltech Corp.
225 Wicksteed Avenue
Toronto, Ontario
Canada
M4H 1G5
(416) 424-4567

Recommended Product Usage

Silicone Surfactant
Foams

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:

Acute toxicity - oral	Category 4
Serious eye damage	Category 1
Hazardous to the aquatic environment - chronic	Category 2

GHS LABEL ELEMENTS (including precautionary statements):

Symbol :



Signal Word:

Danger

Hazard Risk Statement:

H302: Harmful if swallowed.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement:

Prevention: P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a poison center or physician if you feel unwell.

Response:

P351 + P313: IF IN EYES: Rinse cautiously with water for several minutes.
Get medical advice/attention.
P302 + P350: IF ON SKIN: Wash with plenty of soap and water.

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

<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>	<u>Classification according to Directive 67-548/EEC</u>
Nonyl phenyl polyethylene glycol ether, isomers	Nonylphenol Polyethoxylate	9016-45-9	500-024-6	40 - 60	Acute toxicity – oral: Category 4 Serious eye damage: Category 1 Hazardous to the aquatic environment – chronic: Category 2	Xn / N R22, R41 R51/53

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 and skin 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 (Rubber, Neoprene, or Nitrile).

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 to Slightly Hazy Liquid	<u>Viscosity @25°C:</u>	1000 - 2000 cps
<u>Colour:</u>	Light 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>Partion Coefficient</u>	Not determined
<u>Decomposition Temperature:</u>	Not determined	<u>pH:</u>	7.0 typical (5% in DW)
<u>Specific Gravity @25°C:</u>	1.04	<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 temporary serious eye damage.
Skin:	Direct contact may cause temporary redness and discomfort.
Inhalation:	Excessive inhalation may cause respiratory irritation.
Ingestion:	Nonylphenol Polyethoxylate: (LD50 Oral – rat – 2,780mg/kg)

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: Nonylphenol Polyethoxylate: (rabbit – mild skin irritation)

Serious Eye Damage/Irritation: Nonylphenol Polyethoxylate: (rabbit – severe eye irritation)

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 – Single exposure)

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

Aspiration Hazard: No known applicable information.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Environmental Effects

Nonylphenol Polyethoxylate

Acute:

96h LC 50 Rainbow trout, Donaldson trout (*Oncorhynchus mykiss*):

4.12 – 5.35mg/L Method: Flow through: Mortality

96h LC 50 Bluegill (*Lepomis macrochirus*): 1.00 – 1.80 mg/L Method: Static; Mortality

48h EC 50 Water flea (*Daphnia magna*): 13.00 – 16.00 mg/L Method: Renewal Intoxication

Chronic:

No known applicable information.

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):

UN No.: 3082

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (NONYLPHENOL POLYETHOXYLATE SOLUTION)

Class: 9

Packing group: III

SEA TRANSPORT (IMDG):

UN No.: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(NONYLPHENOL POLYETHOXYLATE SOLUTION)

Class: 9

Packing group: III

Emergency Schedule: F-A

(EmS): S-F

ROAD / RAIL (US DOT/CANADA TDG/ADR/RID):

Not subject to US DOT/CANADA TDG/ADR/RID regulations.

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA:	All ingredients are on the inventory.
DSL:	All ingredients are on the inventory.
EINECS:	All ingredients are on or exempted from the inventory.
AICS:	All ingredients are on the inventory.
IECSC:	All ingredients are on the inventory.
MITI:	All ingredients are on the inventory.
KECL:	All ingredients are on the inventory.
NZIoC:	All ingredients are on the inventory.
CSNN:	All ingredients are on the inventory.
PICCS:	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

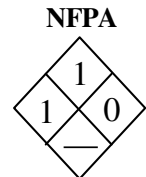
California

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

None known.

HMIS	
H	1
F	1
R	0



KOREA

Classification and labelling in accordance with Industrial Safety and Health Law:	No subject chemicals.
Chemicals controlled in accordance with Toxic Chemicals Control Act:	No subject chemicals.
Hazardous Material Safety Management Act:	No subject chemicals.
Wastes Management Act:	Product should be disposed of in accordance with Waste Management Law Article 12.

EEC

Labelling according to EEC Directive

Symbols: Xn (Harmful), N (Dangerous for the Environment)

R-phrases: R22 (Harmful if swallowed), R41 (Risk of serious damage to eyes),

R51/53 (Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment)

S-phrases: S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice)

GERMANY

Wassergefährdungsklasse (water hazard class) : WGK 2 – hazard to waters

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.

SDS prepared by: Raj Moonsammy
Address: Siltech Corp
225 Wicksteed Avenue
Toronto, Ontario, Canada M4H 1G5
Telephone: (416) 424-4567

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