



# SILTECH CORP.

## Safety Data Sheet

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

Silquat 1105B  
SDS No: 4405

Last Revision Date: October 30, 2015

### SECTION 1. IDENTIFICATION

**Material Identification:** Silquat 1105B

**Chemical Name:** Quaternary Polydimethylsiloxane  
**Chemical Classification:** Silicone

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

**Recommended Product Usage**  
Additive

**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:

**Flammable liquid:** Category 3  
**Skin irritation:** Category 2  
**Eye irritation:** Category 2  
**Specific target organ toxicity – single exposure:** Category 3

#### GHS LABEL ELEMENTS (including precautionary statements):

Symbol :



Signal Word:

**Danger**

Hazard Risk Statement:

**H226: Flammable liquid and vapour.**  
**H315: Causes skin irritation.**  
**H319: Causes serious eye irritation.**  
**H335: May cause respiratory irritation.**

Precautionary Statement:

**Prevention:**  
**P210: Keep container tightly closed and away from ignition sources such as heat, sparks and open flame. NO SMOKING.**  
**P240: Ground all equipment and use only non-sparking tools.**

Response:

**P305 + P351: IF IN EYES: Rinse with water for several minutes. Repeat if needed.**  
**P303 + P361+P353: IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**

Storage:

**P403 + P235: Store in well-ventilated place. Keep cool.**

Disposal:

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

**OTHER HAZARD** (risk not included in classification):

### 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>
2-Propanol	Isopropyl alcohol	67-63-0	200-661-7	10 - 25	Flammable liquid: Category 3 Eye irritation: Category 2A Skin Irritation: Category 3 Specific target organ toxicity 6 single exposure: Category 3	Xi, F R11, R36
Methyl Alcohol	Methanol	67-56-1	200-659-6	5 - 15	Flammable liquid: Category 3 Acute toxicity: Category 3 (inhalation, dermal, oral) Specific target organ toxicity 6 single exposure: Category 3	T, F R23/24/25 R39/23/24/25
2-Methyl-2,4-pentanediol	Hexylene glycol	107-41-5	203-489-0	5 - 15	Skin irritation: Category 2 Eye irritation: Category 2	Xi R36/38

### SECTION 4. FIRST AID MEASURES

**Eyes:** In case of contact, immediately flush with eyes with water for at least 15 minutes.

**Skin:** In case of contact, immediately wash skin with soap and water.

**Inhalation:** If discomfort occurs, remove to fresh air. Obtain medical attention.

**Ingestion:** DO NOT INDUCE VOMITING. If patient is fully conscious and not convulsing, give 2 to 4 glasses of water to dilute the material. Transport to medical facility. If spontaneous vomiting occurs have victim lean forward to avoid breathing in of emesis. Rinse mouth and administer more water.

### SECTION 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, foam, or dry chemical.

**Unsuitable Extinguishing Media:** Water.

**Specific Hazards Arising from the Chemical:** Vapours may travel considerable distance to ignition source and flash back.

**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. Eliminate all possible sources of ignition.

**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:** Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is grounded. 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 store in a flameproof, well ventilated area. Store away from water or moisture.

## 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>
Isopropyl Alcohol	67-63-0	TWA : 400 ppm
Methyl Alcohol	67-56-1	TWA : 200ppm/260 mg/m <sup>3</sup>
Hexylene Glycol	107-41-5	TWA : 25 ppm

### ENGINEERING CONTROLS:

Local Ventilation: Required.

General ventilation: Required.

### PERSONAL PROTECTIVE EQUIPMENT:

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

Hand protection: Chemical resistant gloves recommended.

Eye protection: Safety glasses should be worn.

Skin protection: Wear appropriate 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>	Liquid	<u>Viscosity@25°C:</u>	Not determined
<u>Colour:</u>	Dark Blue	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Mild	<u>Initial Boiling Point:</u>	Not determined
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	12°C (Pensky-Martens closed cup)	<u>Explosive Properties:</u>	Not determined
<u>Flammability:</u>	Not determined	<u>Vapour Pressure @20°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>	0.94	<u>Oxidising Properties:</u>	Not determined
<u>Solubility in Water:</u>	Dispersible	<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:** Eliminate all possible sources of ignition.

**Incompatible Materials:** 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 oxides, 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 redness and discomfort.

**Skin:** No significant irritation expected from a single short-term exposure.

**Inhalation:** Toxic by inhalation of vapour. Possible risk of irreversible effects.

**Ingestion:** Toxic if swallowed. Possible risk of irreversible effects.

#### **Chronic Toxicity:**

**Skin:** No known applicable information.

**Inhalation:** No known applicable information.

**Ingestion:** No known applicable information.

**Other Health Hazard** No known applicable information.

**Skin Corrosion/Irritation:** May cause skin irritation.

**Serious Eye Damage/Irritation:** May cause 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:** Inhalation ó may cause respiratory irritation.  
(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**

**Acute:** No known applicable information.

**Chronic:** No known applicable information.

### **PERSISTENCE AND DEGRADABILITY:**

**Degradation:** Siloxanes are degraded in soil. The organic solvents are biodegradable.

**Environmental Fate and Distribution:** Siloxanes are removed from water by sedimentation sewage or binding to sludge.

### **BIOACCUMULATIVE POTENTIAL:**

**Bioaccumulation:** No known applicable information.

### **MOBILITY IN SOIL:**

No known applicable information.

### **OTHER ADVERSE EFFECTS:**

No known applicable information.

## 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.:** 1993  
**Proper Shipping Name:** Flammable liquid, n.o.s. (Isopropanol Solution)  
**Class:** 3  
**Packing group:** II  
**Labels:** Flammable Liquid

### SEA TRANSPORT (IMDG):

**UN No.:** 1993  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (Isopropanol Solution)  
**Class:** 3  
**Packing group:** II  
**Emergency Schedule:** F-E  
**(EmS):** S-E  
**Labels:** Flammable liquid

### ROAD / RAIL:

**ADR/RID**  
**UN No.:** 1993  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (Isopropanol Solution)  
**Class:** 3  
**Packing group:** II  
**Labels:** 3

### **CANADA TDG REGULATION / US DOT (49 CFR 172.101)**

**Shipping Name:** Flammable liquid, N.O.S.  
**Technical Name:** Isopropanol Solution  
**Primary Class:** 3  
**Subsidiary Risk:** Not assessed  
**Product Identification Number:** UN 1993  
**Packing Group:** II

## 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 (polymer) from the inventory.  
**CSNN:** 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 B - Division 2**  
**CLASS D- Division 2B**  
**CLASS E**

### 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: **Yes**; Chronic: **Yes**; Fire: **Yes**; 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 Right-to-know Laws**

- Isopropyl Alcohol (CAS# 67-63-0): 10 - 25%  
Methyl Alcohol (CAS# 67-56-1): 5 ó 15%  
Hexylene Glycol (CAS# 107-41-5): 5 ó 15%

HMIS	
<b>H</b>	2
<b>F</b>	3
<b>R</b>	0



### EEC

#### **Labelling according to EEC Directive**

- S-phrases: **S16** (Keep away from sources of ignition ó no smoking) | **S24** (Avoid contact with skin)  
**S26** (In case of contact with eyes, rinse immediately with plenty of water and seek medial advice) | **S36** (Wear suitable protective clothing)  
**S51** (Use only in well-ventilated areas)
- R-phrases: **R11** (Highly Flammable) | **R23/24/25** (Toxic by inhalation, in contact with skin and if swallowed) |  
**R39/23/24/25** (Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed)  
**R36/38** (Irritating to eyes and skin) | **R41** (Risk of serious damage to eyes)

### GERMANY

**Wassergefährdungsklasse** (water hazard class) : WGK 1

## 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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