



# SILTECH CORP.

## Safety Data Sheet

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

Siltech C-216  
SDS No: 2853

Last Revision Date: October 23, 2015

### SECTION 1. IDENTIFICATION

**Material Identification:** Siltech C-216

**Chemical Name:** Polydimethylsiloxane in Toluene

**Chemical Classification:** Silicone

**CAS#:** 189354-72-1 / 108-88-3

**Company Identification:** Siltech Corp.

225 Wicksteed Avenue

Toronto, Ontario

Canada

M4H 1G5

(416) 424-4567

**Recommended Product Usage**

Coatings / 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 2  
Acute toxicity: Inhalation Category 4  
Skin irritation: Category 2  
Eye irritation: Category 2A  
Reproductive toxicity: Category 2  
Specific target organ toxicity (single exposure): Category 2 / Category 3  
Aspiration hazard: Category 1  
Acute aquatic toxicity: Category 2

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

Symbol :



Signal Word:

Danger

Hazard Risk Statement:

H225: Highly flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H336: May cause drowsiness or dizziness.  
H361: Suspected of damaging fertility or the unborn child.  
H371: May cause damage to organs.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement:

P210: Keep container tightly closed and away from ignition sources such as heat, sparks and open flame. NO SMOKING.

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P281: Use personal protective equipment as required.

Response:

P305 + P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331: Do NOT induce vomiting.

Storage:

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

Disposal:

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

### 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>
Toluene	Methyl Benzene	108-88-3	203-625-9	> 80	Flammable liquids: Category 2 Reproductive toxicity: Category 2 Aspiration hazard: Category 1 Skin irritation: Category 2 Specific Target Organ Toxicity (single exposure): Category 2 Specific Target Organ Toxicity (single exposure): Category 3	F / Xn / Xi R11 / R63 R48/20-65 R67

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

### SECTION 4. FIRST AID MEASURES

**Eyes:** Immediately flush with water. If irritation persists, obtain medical attention.

**Skin:** Wash off with soap and water. . If irritation persists, obtain medical attention.

**Inhalation:** Immediately remove to fresh air. Give oxygen for breathing difficulty. If breathing has stopped give artificial respiration. If breathing and pulse are absent give CPR. Immediately obtain medical attention. Stay with casualty until medical assistance is reached.

**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, dry chemical, 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. Ensure adequate ventilation. Remove all 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:** 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 heat, sparks, and flame. Ground all equipment. Static electricity will accumulate and may ignite vapours.

## 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>
Toluene	108-88-3	ACGIH TLV: TWA 20ppm

### 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 protective gloves should be worn for repeated or prolonged contact.

Eye protection: Safety glasses should be worn.

Skin protection: Personal protective equipment as required.

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>	3 - 5 cps
<u>Colour:</u>	Colourless	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Kerosene-like	<u>Initial Boiling Point:</u>	111°C
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	6°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>	0.87	<u>Oxidising Properties:</u>	No
<u>Solubility in Water:</u>	Insoluble	<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 agents, strong acids, and sulphur.

**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:

<b>Respiratory:</b>	Exposure is expected.
<b>Oral:</b>	Exposure is expected.
<b>Eye, Skin:</b>	Exposure is expected.

### INFORMATION ON THE HEALTH HAZARDS:

<b>Acute Toxicity:</b>	<b>(Toluene)</b>
<b>Eyes:</b>	Direct contact may cause temporary redness and discomfort.
<b>Skin:</b>	<b>Toluene (LD50 Dermal – rabbit 12196 mg/kg)</b>
<b>Inhalation:</b>	<b>Toluene (LC50 – rat – 4h – 12500 - 28800 mg/m<sup>3</sup>)</b>
<b>Ingestion:</b>	<b>Toluene (LD50 Oral – rat &gt;5580 mg/kg)</b>
<b>Chronic Toxicity:</b>	
<b>Skin:</b>	No known applicable information.
<b>Inhalation:</b>	No known applicable information.
<b>Ingestion:</b>	Repeated ingestion or swallowing large amounts may injure internally.
<b>Other Health Hazard</b>	No known applicable information.
<b>Skin Corrosion/Irritation:</b>	<b>Toluene (Skin – rabbit – skin irritation – 24h)</b>
<b>Serious Eye Damage/Irritation:</b>	<b>Toluene (Eyes – rabbit – severe eye irritation – 24h)</b>
<b>Respiratory Sensitization:</b>	No known applicable information.
<b>Skin Sensitization:</b>	No known applicable information.
<b>Carcinogenicity:</b>	No known applicable information.
<b>Germ Cell Mutagenicity:</b>	No known applicable information.
<b>Reproductive Toxicity:</b>	<b>Toluene (Reproductive toxicity – rat - inhalation)</b>
<b>Specific Target Organ:</b> (Systemic Toxicity ó Single exposure)	<b>Toluene (May cause damage to organs. May cause drowsiness or dizziness)</b>
<b>Specific Target Organ:</b> (Systemic Toxicity ó Repeated exposure)	No known applicable information.
<b>Aspiration Hazard:</b>	<b>Toluene (May be fatal if swallowed and enters airways)</b>

## SECTION 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

#### Environmental Effects

##### Acute:

**Toluene: LC50 – *Lepomis macrochirus* (Bluegill) – 74.00 – 340.00 mg/l – 96h**

**Toluene: NOEC – *Pimephales promelas* (fathead minnow) – 5.44 mg/l – 7d**

**Toluene: EC50 – *Daphnia magna* (waterflea) – 8.00 mg/l – 24 h**

##### Chronic:

**Toluene: Toxic to aquatic life.**

### PERSISTENCE AND DEGRADABILITY:

#### Degradation:

In soil, siloxanes are degraded. The organic solvent is biodegradable.

#### Environmental Fate and Distribution:

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

Organic solvents may evaporate into atmosphere and degrade.

### BIOACCUMULATIVE POTENTIAL:

#### Bioaccumulation:

**Toluene: *Leuciscus idus* (Golden orfe) ó 3d. Bioconcentration factor (BCF): 94**

### 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.:** 1294  
**Proper Shipping Name:** Toluene Solution  
**Class:** 3  
**Packing group:** II  
**Labels:** Flammable Liquid

### SEA TRANSPORT (IMDG):

**UN No.:** 1294  
**Proper Shipping Name:** TOLUENE SOLUTION  
**Class:** 3  
**Packing group:** II  
**Emergency Schedule:** F-E  
**(EmS):** S-D  
**Labels:** Flammable liquid

### ROAD / RAIL (DOT/ADR/RID):

**UN No.:** 1294  
**Proper Shipping Name:** Toluene Solution  
**Class:** 3  
**Packing group:** II  
**Labels:** 3

## SECTION 15. REGULATORY INFORMATION

### CHEMICAL INVENTORIES:

<b>TSCA:</b>	All ingredients are on the inventory.
<b>DSL:</b>	All ingredients are on the inventory.
<b>EINECS:</b>	All ingredients are on or exempted from the inventory.
<b>AICS:</b>	All ingredients are on the inventory.
<b>IECSC:</b>	All ingredients are on the inventory.
<b>MITI:</b>	All ingredients are on the inventory.
<b>KECL:</b>	All ingredients are on the inventory.
<b>CSNN:</b>	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 2A  
CLASS D - Division 2B

### USA

#### **EPA SARA Title III Chemical Listings:**

Section 302 Extremely Hazardous Substances (40 CFR 355):	<b>None</b>
Section 304 CERCLA Hazardous Substances (40 CFR 302):	<b>Toluene (CAS#108-88-3) 1000 lb final RQ; 454 kg final RQ</b>
Section 311/312 Hazard Class (40 CFR 370):	<b>Acute: Yes; Chronic: Yes; Fire: Yes; Pressure: No; Reactive: No</b>
Section 313 Toxic Chemicals (40 CFR 372):	<b>Toluene (CAS#108-88-3, &gt; 80%)</b>

### Supplemental State Compliance Information

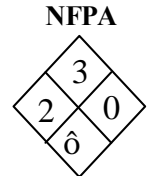
#### **California**

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: **Toluene (CAS#108-88-3, > 80%)**

#### **New Jersey/Pennsylvania/Minnesota/Massachusetts Right-to-Know**

Toluene (CAS#108-88-3) > 80%

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



### EEC

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

S-phrases: S51 (Use only in well-ventilated areas) / S36/37 (Wear suitable protective clothing and gloves)

R-phrases: **R11: Highly flammable** / **R38: Irritating to skin**

**R48/20: Harmful: danger of serious damage to health by prolonged inhalation exposure.**

**R63: Possible risk of harm to the unborn child.** / **R65: Harmful- may cause lung damage if swallowed**

**R67: Vapours may cause drowsiness and dizziness.**

### GERMANY

WATER HAZARD CLASS (Toluene - Substance No: 194) **WGK 2** 6 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.

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