

SILTECH CORP.

Safety Data Sheet

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

Siltech C-265 SDS No: 2094

Last Revision Date: July 10, 2014

SECTION 1. IDENTIFICATION

Material Identification: Siltech C-265 Company Identification: Siltech Corp.

Chemical Name:Polydimethylsiloxane in 2-Butanol225 Wicksteed AvenueChemical Classification:SiliconeToronto, Ontario

CAS #: 68937-55-3 / 9041-33-2 / 78-92-2 Canada M4H 1G5
roduct Usage (416) 424-4567

Recommended Product Usage

Additive Coatings

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

Eye irritation: Category 2
Specific Target Organ Toxicity (single exposure): Category 3

GHS LABEL ELEMENTS (including precautionary statements):

Symbol:





Signal Word: Warning

Hazard Risk Statement: H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statement:

P210: Keep container tightly closed and away from ignition sources such as heat,

sparks and open flame. NO SMOKING.

Prevention: P240: Ground all equipment and use only non-sparking tools.

P280: Wear suitable protective clothing, gloves and eye protection.

P262: Do not get in eyes, on skin, or on clothing.

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 /

osar: international regulations.

OTHER HAZARD (risk not included in classification):

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Common Name or		EINECS/			<u>Classification</u> according to Directive
Chemical Name	Synonym	CAS No.	ELINCS No.	% (w/w)	GHS Classification	67-548/EEC
Sec-Butyl Alcohol	2-Butanol	78-92-2	201-158-5	45 - 65	Flammable liquid: Category 3	Xi
					Eye irritaion: Category 2	R10,R36/37, R67

Specific Target Organ Toxicity (single exposure): Category 3

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

SECTION 4. FIRST AID MEASURES

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

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

<u>Inhalation</u>: 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.

<u>Ingestion</u>: 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

<u>Suitable Extinguishing Media</u>: Carbon dioxide, dry powder, foam, or water spray. Water can be used to cool fire exposed containers. **Unsuitable Extinguishing Media:** None known.

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

<u>Special Protective Actions for Fire-Fighters</u>: 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.

<u>Containment/Clean up</u>: 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

<u>Handling Precautions</u>: 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

IngredientCAS No.Exposure Limit2-Butanol (sec-Butyl Alcohol)78-92-2OSHA PEL: 150ppmACGIH TLV: 100ppm (TWA)

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 should be worn for repeated or prolonged contact.

Eye protection: Safety glasses should be worn.

Skin protection: Protective equipment is not normally required.

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

<u>Note</u>: 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							
Appearance:	Clear liquid	Viscosity@25°C:	15 - 50 cps				
Colour:	Colourless	Melting/Freezing Point:	Not determined				
Odour:	Mild	Initial Boiling Point:	>100°C @ 760 mmHg				
Odour Threshold:	Not determined	Boiling Range:	Not determined				
Flash Point:	25°C (Pensky-Martens closed cup)	Explosive Properties:	No				
Flammability:	Not determined	Vapour Pressure @25°C:	Not determined				
Flammability Limits:	Not determined	Vapour Density	Not determined				
Auto-ignition Temperature:	390°C	Partition Coefficient	Not determined				
Decomposition Temperature:	Not determined	<u>pH:</u>	Not determined				
Specific Gravity @25°C:	0.91	Oxidising Properties:	No				
Solubility in Water:	Insoluble	Evaporation Rate:	Not determined				

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, flames, and sources of ignition.

Incompatible Materials: Alkali metals, strong mineral acids, oxidizing agents and halogens.

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.

Eve, Skin: Exposure is expected.

INFORMATION ON THE HEALTH HAZARDS:

Acute Toxicity

Eyes: Direct contact may cause temporary redness and discomfort.

Skin: 2-Butanol (LD50 dermal: rat/rabbit > 2000 mg/kg)

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

Ingestion: 2-Butanol (LD50 oral: rat 2190 mg/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: No known applicable information.

Serious Eye Damage/Irritation: No known applicable information.

Respiratory Sensitization: No known applicable information.

Skin Sensitization: No known applicable information.

Carcinogenicity: No known applicable information.

Germ Cell Mutangenicity: No known applicable information.

Reproductive Toxicity: No known applicable information.

Specific Target Organ: May cause respiratory irritation. May cause drowsiness or dizziness.

(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: 2-Butanol: Fish LC50 ó Pimephanles promelas (fathead minnow) - 3,670mg/l - 96h

2-Butanol: Daphnia EC50 ó Danphnia magna (water flea) ó 4,277mg/l ó 48h 2-Butanol: Daphnia EC100 ó Danphnia magna (water flea) ó 5,000mg/l ó 24h

Chronic: No adverse effects on aquatic organisms.

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: 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.: 1120

Proper Shipping Name: Butanols Solution

Class: 3
Packing group: III

Labels: Flammable Liquid

SEA TRANSPORT (IMDG):

UN No.: 1120

Proper Shipping Name: BUTANOLS SOLUTION

Class: 3
Packing group: III
Emergency Schedule: F-E
(EmS): S-D

Labels: Flammable liquid

ROAD / RAIL (ADR/RID):

UN No.: 1120

Proper Shipping Name: Butanols Solution

Class: 3
Packing group: III
Labels: 3

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA: (USA) All ingredients are on the inventory.

DSL: (Canada) All ingredients are on the inventory.

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: All ingredients are on the inventory. (Korea) 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 B - Division 2 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: Yes; Chronic: No; Fire: Yes; Pressure: No; Reactive: No

Section 313 Toxic Chemicals (40 CFR 372): **2-Butanol CAS# 78-92-2 (45 – 65%)**

Supplemental State Compliance Information

California

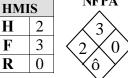
Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: None known.

NFPA

Massachusetts / New Jersey / Pennsylvania

 Substance
 CAS#
 Wt%

 2-Butanol
 78-92-2
 45-65



EEC

Labelling according to EEC Directive

S-phrases: S51 (Use only in well-ventilated areas)

R-phrases: R10: Flammable, R36/37: Irritating to eyes/Irritating to respiratory system, R67: Vapours may cause drowsiness and dizziness

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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