



SILTECH CORP.

Safety Data Sheet

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

Silquat 3152
SDS No: 4452

Last Revision Date: August 14, 2013

SECTION 1. IDENTIFICATION

Material Identification: Silquat 3152

Chemical Name: Quaternary Polydimethylsiloxane

Chemical Classification: Silicone

CAS#: 588707-20-4 / 68603-42-9 / 61790-41-8
67-63-0 / 64-17-5

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

Eye irritation: Category 2

Skin irritation: Category 3

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.

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 | 20 - 30 | 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 |
| Ethyl Alcohol | Ethanol | 64-17-5 | 200-578-6 | 5 - 15 | Flammable liquid: Category 2 | F R11 |

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

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 |
| Ethyl Alcohol | 64-17-5 | TWA : 1000ppm / 1920 mg/m ³ |

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> | Clear to Hazy Liquid | <u>Viscosity@25°C:</u> | Not determined |
| <u>Colour:</u> | Yellow | <u>Melting/Freezing Point:</u> | Not determined |
| <u>Odour:</u> | Alcohol | <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> | 0.95 | <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: | Excessive inhalation may cause respiratory irritation. |
| Ingestion: | Repeated ingestion or swallowing large amounts may injure internally. |

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: III
Labels: Flammable Liquid

SEA TRANSPORT (IMDG):

UN No.: 1993
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Isopropanol Solution)
Class: 3
Packing group: III
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: III
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: III

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 1B
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: **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): 20 - 30%

| HMIS | |
|------|---|
| H | 2 |
| F | 3 |
| R | 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) | **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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