




SAFETY DATA SHEET

WHMIS 2015 • OSHA HCS (29 CFR 1910.1200) • NOM-018-STPS-2015

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Silquat C18
Product code	4386
Chemical Name	Mixture
CAS No.	27668-52-6 / 67-56-1
1.2 Recommended use of the chemical and restrictions on use	
Identified use(s)	Coatings
Uses advised against	None known
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Siltech Corp 225 Wicksteed Ave Toronto, ON Canada M4H 1G5
Telephone	+1-416-424-4567
Fax	+1-416-424-3158
E-Mail (competent person)	raj@siltech.com
Additional Location	Siltech Corp 3265 Wolfedale Road, Mississauga ON Canada L5C 1V8
Telephone	+1-905-270-5534
Fax	+1-905-270-5816
1.4 Emergency telephone number	
Emergency Phone No.	CANUTECH - TELEPHONE: EMERGENCY USE ONLY +1-613-996-6666

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 3 - Oral Acute Tox. 3 - Inhalation Acute Tox. 3 - Dermal STOT SE 1 - Optic nerve Aquatic Acute 1 Aquatic Chronic 1
2.2 Label elements	
Product Name	Silquat C18
Symbol	
Signal word(s)	DANGER
Hazard statement(s)	H226: Flammable liquid and vapour. H315: Causes skin irritation. H319: Causes serious eye irritation. H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled H370: Causes damage to organs: Optic nerve H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	P210: Keep away from heat, hot surfaces, sparks, open equipment, flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311: Call a POISON CENTER/doctor.
P363: Wash contaminated clothing before reuse.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.
None known.

2.3 Other hazards

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredient(s)	Synonym(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
3-(trimethoxysilyl) propyl octadecyl dimethyl ammonium chloride	1- Octadecanaminium, N,N-dimethyl-N-[3-(trimethoxysilyl)propyl]-, chloride (1:1)	65 - 75	27668-52-6	248-595-8	GHS09, GHS07 H315, H319, H400, H410
methyl alcohol	methanol	10 - 20	67-56-1	200-659-6	GHS02, GHS08, GHS06 H225, H301, H311, H331, H370
3-chloropropyl trimethoxysilane	(3-Chloropropyl) trimethoxysilane	10 - 20	2530-87-2	219-787-9	GHS02 : H226
1-Octadecanamine, N,N-dimethyl-	Dimantine	< 1.0	124-28-7	204-694-8	GHS09, GHS05, GHS07 H302, H314, H400, H410

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention immediately if inhaled.

Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
4.2 Most important symptoms and effects, both acute and delayed	Causes skin irritation. Causes serious eye irritation. May disturb the central nervous system.
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media Suitable Extinguishing Media	In case of fire, use water spray, foam, dry powder or CO2 for extinction. Keep containers cool by spraying with water if exposed to fire.
Unsuitable Extinguishing Media	Do not use water jet.
5.2 Special hazards arising from the substance or mixture	Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.
5.3 Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear suitable respiratory protection. Remove all ignition sources.
6.2 Environmental precautions	Avoid release to the environment.
6.3 Methods and material for containment and cleaning up	Caution - spillages may be slippery. Cover spills with inert absorbent material. Transfer to a container for disposal.
6.4 Reference to other sections	See Section: 7 & 8.

7. SECTION 7: HANDLING AND STORAGE




7.1 Precautions for safe handling	Avoid contact with skin and eyes. Avoid ingestion. Use only with sufficient ventilation. Wash thoroughly after handling. General hygiene measures for the handling of chemicals are applicable.
7.2 Conditions for safe storage, including any incompatibilities Storage Temperature Storage Life Incompatible materials	Store in a tightly closed container. Keep away from flames and hot surfaces. Ambient Stable under normal conditions. Do not allow product to come into contact with water or moisture.
7.3 Specific end use(s)	Industrial use

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methanol	67-56-1	200		250		skin

- 8.1.2 Biological limit value** Not established

8.1.3 PNECs and DNELs	Not established
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Provide adequate ventilation if fumes or vapours are likely to be evolved to ensure that the defined occupational exposure limit is not exceeded.
8.2.2 Personal protection equipment	
Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
	
Skin protection (Hand protection/ Other)	Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended).
	
Respiratory protection	Use NIOSH approved respiratory protection.
	
Thermal hazards	None.
8.2.3 Environmental Exposure Controls	Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Coloured liquid (Amber)
Odour	Characteristic odour.
Odour Threshold	Not available.
pH	5.5 – 7.5
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash point (PMCC)	26°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density / Specific Gravity (25°C)	0.94
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity (25°C)	30 cps
Explosive properties	Not available.
Oxidising properties	Not available.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	May form explosive mixtures with air.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials	Oxidizing agents.
10.6 Hazardous Decomposition Product(s)	Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion

Toxic by inhalation, in contact with skin and if swallowed.

Inhalation

Toxic by inhalation, in contact with skin and if swallowed.

Skin Contact

Toxic by inhalation, in contact with skin and if swallowed.

Eye Contact

Causes serious eye irritation.

Effects and Symptoms

skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause damage to the central nervous system.

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT - single exposure

Vapours may cause drowsiness and dizziness.

Can cause damage to the eyes.

STOT - repeated exposure

Not classified.

Aspiration hazard

Not classified

Delayed and chronic effects

Not available

Calculated acute toxicity estimate (ATE)

Not available

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and VPVB assessment

Not available.

12.6 Other adverse effects

None known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not empty into drains; dispose of this material and its container in a safe way.

13.2 Additional Information

Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

1993

14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Methanol Solution)

14.3 Class

3 Packing group III

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations

REACH Registration No.

Not available.

Candidate List of Substances of Very High Concern for Authorisation

None known.

15.2 International Inventories

Country	Listed	Not listed	Polymer exempt	Other
United States (TSCA)	✓			
Canada (DSL/NDSL)	DSL✓			
European Union (EINECS/ELINCS)	✓			
Australia (AICS)	✓			
China (IECSC)	✓			
Japan (ENCS)	✓			
South Korea (KECI)	✓			
Taiwan (TCSI)	✓			
New Zealand (NZIoC)	✓			
Philippines (PICCS)	✓			

15.3 National regulations

United States (TSCA)

TSCA Inventory Status : All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).

HMIS (Hazardous Material Information System)
NFPA Rating

H = 3 / F = 2 / R = 0
H = 3 / F = 2 / R = 0

15.4 US State Regulations

15.4.1 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

Methanol (CAS# 67-56-1) 10 – 20%

15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

None known.

15.4.3 State Right to Know Lists

Methanol (CAS# 67-56-1) 10 – 20%

16. SECTION 16: OTHER INFORMATION

Revision: **May 19, 2021**

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

Hazard statement(s) and Precautionary statement(s)

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled

H370: Causes damage to organs.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311: Call a POISON CENTER/doctor.

P363: Wash contaminated clothing before reuse.

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

Hazard pictogram(s) and Hazard Symbol



Additional Information

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Siltech Corp. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Siltech Corp. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.