




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	Siltech CF-954
Product code	0025
Chemical Name	2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane
CAS No.	556-67-2
Alternative names (INCI)	Cyclotetrasiloxane
1.2 Recommended use of the chemical and restrictions on use	
Identified use(s)	PC39 Cosmetics, personal care products PC19 Intermediate, Solvent
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)	marsha.carter@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.	CANUTEC - TELEPHONE: EMERGENCY USE ONLY +1-613-996-6666

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
	Flam. Liq. 3 Repr. 2 Aquatic Chronic 1
2.2 Label elements	
Product Name	Siltech CF-954
Symbol	
Signal word(s)	WARNING
Hazard statement(s)	H226: Flammable liquid and vapour. H361: Suspected of damaging fertility or the unborn child. H410: Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	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. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P370+P378: In case of fire: Use water spray, foam, dry powder or CO2 to extinguish.
P391: Collect spillage.
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 Substances

Hazardous ingredient(s)	Synonym(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
Octamethylcyclotetrasiloxane	D4 Cyclotetrasiloxane	100	556-67-2	209-136-7	GHS02, GHS08 H226, H361f, H410

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation
Skin Contact
Eye Contact

Remove persons affected by vapour to fresh air.
Gently wash with plenty of soap and water.
If substance has got into the eyes, immediately wash out with plenty of water for several minutes.

Ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Suspected of damaging fertility or the unborn child.

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

May form explosive mixtures with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

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

Remove all ignition sources. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

6.2 Environmental precautions

Avoid release to the environment.

- 6.3 Methods and material for containment and cleaning up** Use non-sparking equipment when picking up flammable spill. 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** Ground/bond container and receiving equipment. Take precautionary measures against static discharges. 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: Ambient
 Storage Life: Stable under normal conditions.
 Incompatible materials: Do not store and transport with oxidizers etc. (Organic peroxide, Flammable solid., Pyrophoric liquid, Pyrophoric solid, Self-heating substance or mixture, Substance or mixture which in contact with water emits flammable gas, Flammable gas, Explosive, Gas)
- 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
Octamethylcyclotetrasiloxane	556-67-2	10 ppm				US WEEL

- 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, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved.
- 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 gloves if prolonged skin contact is likely.
- Respiratory protection  Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.
- 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	Colourless liquid.
Odour	Almost odourless.
Odour Threshold	Not available.
pH	Not available.
Melting Point/Freezing Point	17.5°C
Initial boiling point and boiling range	175°C @ 760mmHg
Flash point (PMCC)	57°C
Evaporation rate	< 1
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	7.4% : 0.75% (V)
Vapour pressure	0.12 hPa
Vapour density	Not available.
Relative density / Specific Gravity (25°C)	0.95
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	5.1
Auto-ignition temperature	400°C
Decomposition Temperature	Not available.
Viscosity (25°C)	2 cps
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

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	Reacts with strong oxidizing substances. May form explosive vapour/air mixtures. Flammable liquid and vapour.
10.4 Conditions to avoid	Keep away from oxidisers, heat, flames or ignition sources.
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	LD50 (oral,rat) mg/kg: >4800
Inhalation	LC50 (inhalation,rat) mg/l/4h: 36
Skin Contact	LD50 (skin,rat) mg/kg: >2400
Eye Contact	None anticipated

Effects and Symptoms

skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Inconclusive data.
Reproductive toxicity	May damage fertility. Suspected of damaging the unborn child.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified
Delayed and chronic effects	Not available
Calculated acute toxicity estimate (ATE)	Not available

Other information

Recent results from a 2 year repeated vapour inhalation exposure study to rats of D4 indicate effects (benign uterine

adenomas) in the uterus of female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure does (700 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D4 do not represent a risk to humans.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	LC50 (rainbow trout) mg/l: > 0.022 (96hr) LC50 (sheepshead minnow) mg/l: > 0.0063 (14d)
12.2	Persistence and degradability	Not readily biodegradable (according to OECD criteria).
12.3	Bioaccumulative potential	Bioconcentration factor (BCF) : > 3000
12.4	Mobility in soil	The substance is predicted to have low mobility in soil.
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 LIQUIDS N.O.S.(Octamethylcyclotetrasiloxane)
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	Marine Pollutant



15. SECTION 15: REGULATORY INFORMATION

15.1	EU regulations	
	REACH Registration No.	Not available.
	Candidate List of Substances of Very High Concern for Authorisation	
	vPvT: very Persistent and very Toxic	Octamethylcyclotetrasiloxane (CAS# 556-67-2) 99 – 100%
	vPvB: very Persistent and very Bioaccumulative	Decamethylcyclopentasiloxane (CAS# 541-02-6) < 1%
		Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 1%

15.2 International Inventories

Country	Listed	Not listed	Polymer exempt	Other
United States (TSCA)	Active✓			
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 = 1 / F = 2 / R = 0
H = 1 / 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

None known.

15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

None known.

15.4.3 State Right to Know Lists

Octamethylcyclotetrasiloxane (CAS# 556-67-2) 99 – 100%

16. SECTION 16: OTHER INFORMATION

Revision: **April 13, 2023**

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)

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P308+P313: IF exposed or concerned: Get medical advice/attention.

P391: Collect spillage.

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

Hazard pictogram(s) and Hazard Symbol



GHS02

GHS08

GHS09

Additional Information

Disclaimers

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