



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 **Silmer G-162**
Product code 6970
Chemical Name Mixture
CAS No. 541-02-6 / 156065-02-0
Alternative names (INCI) Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer
- 1.2 Recommended use of the chemical and restrictions on use**
Identified use(s) PC39 Cosmetics, personal care products
Surface active agent
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**
Flammable Liquid Category 4
- 2.2 Label elements**
Product Name **Silmer G-162**
Symbol NONE
Signal word(s) **Warning**
Hazard statement(s) H227: Combustible liquid.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.
- 2.3 Other hazards**
Vapour may create explosive atmosphere.

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)
Decamethylcyclpentasiloxane	D5	80 - 95	541-02-6	208-764-9	H227
Octamethylcyclotetrasiloxane	D4	< 0.1	556-67-2	209-136-7	GHS02, GHS08, GHS09 H226, H361f, H410

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation
Skin Contact
Eye Contact

Remove person to fresh air and keep comfortable for breathing.
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.
If swallowed, seek medical advice immediately and show this container or label.

Ingestion

Not available.

4.2 Most important symptoms and effects, both acute and delayed

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

None known

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.

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

Ambient

Storage Life

Stable under normal conditions.

Incompatible materials

Oxidizing agents

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.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m ³)	STCL (ppm)	STCL (mg/m ³)	Note
None assigned						

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.
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	In case of inadequate ventilation wear respiratory protection.
	
Thermal hazards	Combustible
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	Clear Gel.
Odour	Faint.
Odour Threshold	Not available.
pH	Not available.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	210°C @ 760mmHg
Flash point (PMCC)	77°C
Evaporation rate	< 1
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	0.015 kPa
Vapour density	Not available.
Relative density / Specific Gravity (25°C)	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity (25°C)	300,000- 800,000 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	Will not occur.
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	D5: LD50 (oral, rat) mg/kg: >5000
Inhalation	D5: LC50 (inhalation, rat) mg/l/4h: > 5000
Skin Contact	None anticipated
Eye Contact	None anticipated

Effects and Symptoms

skin corrosion/irritation	Not classified
Serious eye damage/irritation	Mild irritant to rabbit eyes.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
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

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	May cause long lasting harmful effects to aquatic life.
12.2 Persistence and degradability	Not available.
12.3 Bioaccumulative potential	Identified as a vPvB according to REACH Annex XIII.
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 TDG / Road/Rail (ADR/RID)	Not classified as dangerous for transport.
14.2 Air (ICAO/IATA)	Not classified as hazardous for air transport.
14.3 Sea (IMDG)	Not classified as hazardous for marine transport.
14.4 DOT / CFR (US Department of Transportation) DOT Proper Shipping Name	(Applicable only to containers > 119 gallons or 450 L) Combustible liquid, N.O.S. (Decamethylcyclopentasiloxane solution)
Class	3 Packing group III
UN number	1993

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations

REACH: ANNEX XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	D4 & D5: Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0.1 % by weight of either substance, after 31 January 2020
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Candidate List of Substances of Very High Concern
for Authorisation

vPvB: very Persistent and very Bioaccumulative

Decamethylcyclopentasiloxane (CAS# 541-02-6) 80 – 95%

Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%

Octamethyltrisiloxane (CAS# 107-51-7) < 0.1%

Decamethyltetrasiloxane (CAS# 141-62-8) < 0.1%

PBT: Persistent, Bioaccumulative and Toxic

Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1%

15.2 International Inventories

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

15.3 National regulations

United States (TSCA)

HMIS (Hazardous Material Information System)

NFPA Rating

Personal care exempt

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) < 0.1%

16. SECTION 16: OTHER INFORMATION

Revision: **September 16, 2025**

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)

H227: Combustible liquid.

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

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

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

Hazard pictogram(s) and Hazard Symbol

NONE

Additional Information

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