

Safety Data



1. Identification of Substance:

Product Name: GreenSil 100 Product Use: Silicone Roof Coating Field of Application: building and metal industry Identified uses: Industrial/Professional use	Company Details: Green Shield Products Address: 40 Cypress Creek Parkway #338 Houston, Texas 77090 Telephone: 877.476-7453 24-Hr. Emergency Phone Number: CHEMTREC (800) 424-9300
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2. Hazards Identification

GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Skin sensitizer	1	Skin sensitizer
Reproductive toxin	2	Human or animal evidence possibly with other information
Aquatic toxicity	C4	Acute toxicity > 100 mg/l and lack of rapid degradability and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l

GHS Hazards

H302 Harmful if swallowed
 H317 May cause an allergic skin reaction
 H361 Suspected of damaging fertility or the unborn child
 H413 May cause long lasting harmful effects to aquatic life

GHS Precautions:

P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 Wash hands thoroughly after handling
 P270 Do not eat, drink or smoke when using this product
 P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection P281 Use personal protective equipment as required
 P321 Specific treatment is urgent (see Section 4 First Aid measures)
 P330 Rinse mouth
 P363 Wash contaminated clothing before reuse
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P302+P352 IF ON SKIN: Wash with soap and water



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P308+P313 IF exposed or concerned: Get medical advice/attention
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
 P405 Store locked up
 P501 Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

Signal Word: Danger



Acute Toxicity:

Eyes: May cause irritation & burns.

Skin: Minor potential for irritation.

Inhalation: Liquid may cause irritation.

Ingestion: May cause irritation & burns.

Conditions Aggravated: Unknown

Chronic Effects: Possible harmful target organ effects.

3. Composition/information on ingredients:

Chemical Name	CAS number	Weight Concentration %
Siloxanes and silicones, dimethyl, hydroxy-terminated	70131-67-8	30.00% - 40.00%
Quartz	14808-60-7	20.00% - 30.00%
Titanium dioxide	13463-67-7	5.00% - 10.00%
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	1.00% - 5.00%
Octamethylcyclotetrasiloxane	556-67-2	1.00% - 5.00%

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4. First Aid Measures:

After Inhalation: If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.

After Skin Contact: Clean affected area with soap and plenty of water.

After Swallowing: Consult physician.

Notes to Physician: Treat symptomatically.

5. Firefighting measures

Flash Point: >200 F, 93 C

LEL: N/A

UEL: N/A

Upper and lower explosive limits listed if known.

Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical

Information about Protection against Explosions and Fires: Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of silicon.

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.



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6. Accidental release measures

Person-Related Safety Precautions: Evacuate all non-essential personnel. Remove all sources of ignition.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece) Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. Handling and Storage

Information for Safe Handling: Avoid contact with skin or inhalation.

Storage Requirements: Store in dry, well ventilated area. Avoid contact with moisture. Keep containers tightly closed. Store between 60 F-100 F. Material may settle.

Regulatory Requirements: Store according to all local, state, and federal regulations. Avoid contact with skin or eyes. Immediately report spills or leaks. Use grounded or spark-resistant tools and equipment.

Storage Requirements: Store containers in a dry, well ventilated area. Keep containers tightly closed and prevent moisture contamination. Do not re-seal the container if contamination is suspected. Store between 60 F and 100 F. Avoid electrical (static) discharge.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Siloxanes and silicones, dimethyl, hydroxy-terminated 70131-67-8	Not Established	Not Established	Not Established
Quartz 14808-60-7	Not Established	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
Titanium dioxide 13463-67-7	Not Established	Not Established	Not Established
2-Butanone,O,O',O''-(methylsilylidene) trioxime 22984-54-9	Not Established	Not Established	Not Established
Octamethylcyclotetrasiloxane 556-67-2	Not Established	Not Established	Not Established



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Engineering Controls: No special measures required.

General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment:

Respiratory Protection: None required if work area is properly ventilated..

Hand Protection: Protective butyl rubber or nitrile rubber gloves.

Eye Protection: Chemical safety goggles.

Body Protection: Impervious protective work clothing. Launder separately.

Contaminated Gear: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

9. Physical and Chemical Properties:

Physical properties listed where known.

Appearance: Black liquid Vapor Pressure: N/A Vapor Density: N/A Specific Gravity: 1.34 Freezing point: N/A Boiling range: 2230 - 3000 C Evaporation rate: N/A Explosive Limits: N/A Autoignition temperature: N/A	Odor: Solvent odor Odor threshold: N/A pH: N/A Melting point: N/A Solubility: N/A Flash point: >200 F, 93 C Flammability: N/A Partition coefficient N/A (n-octanol/water): Decomposition temperature: N/A
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10. Stability and Reactivity:

Incompatible Materials: Avoid contact with moisture, strong acids, strong bases, oxidizing and reducing agents.

Hazardous Polymerization: Not expected to occur

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of silicon, traces of HCN.



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11. Toxicological Information:

Mixture Toxicity

Oral Toxicity LD50: 1,563mg/kg

Inhalation Toxicity LC50: 325mg/L

Component Toxicity

556-67-2

Octamethylcyclotetrasiloxane

Oral LD50: 1,540 mg/kg (Rat) Dermal LD50: 759 mg/kg (Rabbit)

Inhalation LC50: 36 g/m3 (Rat)

Toxicity Values Listed if Known

Acute Toxicity:

Eyes: May cause irritation & burns.

Skin: Minor potential for irritation. Inhalation: Liquid may cause irritation.

Inhalation: Liquid may cause irritation.

Ingestion: May cause irritation & burns.

Chronic Effects: Possible harmful target organ effects.

Routes of Entry: Inhalation, ingestion, skin contact, eye contact

Target Organs: Eyes, skin, respiratory system, reproductive system.

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
13463-67-7	Titanium dioxide	5 to 10%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
14808-60-7	Quartz	20 to 30%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed



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12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13.

Individual component ecotoxicity listed if known.

Component Ecotoxicity

Octamethylcyclotetrasiloxane

96 Hr LC50 Brachydanio rerio: >500 mg/L; 96 Hr LC50 Lepomis macrochirus: >1000 mg/L

13. Disposal considerations

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

14. Transport Information

DOT Regulated Components:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency Proper	Shipping Name	UN Number	Packing Group	Hazard Class
	None			

15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard, fire hazard.

California Proposition 65

(Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:



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WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov

Titanium dioxide 13463-67-7 5 to 10 % CARC

Quartz 14808-60-7 20 to 30 % CARC

Titanium dioxide and Quartz only require Proposition 65 notification when in dust form and particles of respirable size

Massachusetts Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Quartz 14808-60-7 20 to 30 %

New Jersey Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Quartz 14808-60-7 20 to 30 %

Pennsylvania Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Quartz 14808-60-7 20 to 30 %

SARA 302 Extremely Hazardous Substances:

- None

Chemicals subject to SARA 313 Reporting:

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes



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16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Green Shield Products. The data on these sheets relates only to the specific material designated herein. Green Shield Products assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws

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