

GreenSil Safety Yellow



1. Identification of Substance:

Product Name: GreenSil Safety Yellow Chemical Family: Water-borne Acrylic Coating Field of Application: Silicone Coating for Roofing Applications	Company Details: Green Shield Products Address: 40 Cypress Creek Parkway #338 Houston, Texas 77090 Telephone: 1-877-476-7453 24-Hr. Emergency Phone Number: CHEMTREC (800) 424-9300
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2. Hazards Identification

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Aquatic toxicity	C3	Acute toxicity > 10.0 but ≤ 100.0 mg/l and lack of rapid degradability and $\log K_{ow} \geq 4$ unless $BCF < 500$ and unless chronic toxicity > 1 mg/l

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H412	Harmful to aquatic life with long lasting effects



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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
P271	Use only outdoors or in a well-ventilated area
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
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
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: Consult physician.

Conditions aggravated: None known.

Chronic Effects: Possible harmful target organ effects.



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3. Composition/information on ingredients:

Chemical Name	CAS number	Weight Concentration %
Siloxanes and silicones, dimethyl, hydroxy-terminated	70131-67-8	50.00% - 60.00%
Nepheline syenite	37244-96-5	10.00% - 20.00%
Poly(dimethylsiloxane)	63148-62-9	5.00% - 10.00%
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	5.00% - 10.00%
Octamethylcyclotetrasiloxane	556-67-2	5.00% - 10.00%
Titanium dioxide	13463-67-7	5.00% - 10.00%
Butanamide,2-[(4-methyl-2-	2512-29-0	1.00% - 5.00%
Silica, amorphous, fumed, crystalline-free	112945-52-5	0.10% - 1.00%

4. First Aid Measures:

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, and traces of HCN

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

6. Accidental release measures

Person-Related Safety Precautions: Avoid contact with skin and eyes. Do not breathe vapors.

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

Clean up with water. Avoid discharge into drains, water courses, or onto the ground..



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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.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limit
Siloxanes and silicones, dimethyl, hydroxy-terminated 70131-67-8	Not Established	Not Established	Not Established)
Nepheline syenite 37244-96-5	Not Established	Not Established	Not Established
Poly(dimethylsiloxane) 63148-62-9	Not Established	Not Established	Not Established
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime 22984-54-9	Not Established	Not Established	Not Established
Octamethylcyclotetrasiloxane 556-67-2	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
Butanamide,2-[(4-methyl-2- 2512-29-0	Not Established	Not Established	Not Established
Silica, amorphous, fumed, crystalline-free 112945-52-5	Not Established	Not Established	Not Established

Engineering Controls: Controls: Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well-ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

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

Personal Protective Equipment:

Respiratory Protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately 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.



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9. Physical and Chemical Properties:

Appearance: Yellow liquid Vapor Pressure: N/A Vapor Density: N/A Specific Gravity: 1.26 Freezing point: N/A Boiling range: 2500 - 3000°C Evaporation rate: N/A Explosive Limits: N/A Autoignition temperature: N/A	Odor: Mild 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-octanol/water): N/A Decomposition temperature: N/A
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10. Stability and Reactivity:

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

Hazardous Polymerization: Not expected to occur.

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

11. Toxicological Information:

Mixture Toxicity

Inhalation Toxicity LC50: 247mg/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.

Ingestion: May cause irritation & burns.

Chronic Effects: Possible harmful target organ effects.

Routes of Entry: Ingestion, inhalation, skin contact, eye contact

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

Chemicals with Known or Possible Carcinogenic Effects:

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number

13463-67-7

Description

Titanium dioxide

% Weight

5 to 10%

Carcinogen Rating

Titanium dioxide: NIOSH: potential occupational carcinogen

IARC: Possible human carcinogen

OSHA: listed



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12. Ecological Information:

General Information: 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:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
	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.

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:

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

Massachusetts Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %



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New Jersey Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Pennsylvania Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

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

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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Reviewer Revision 0

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SAFETY DATA SHEET



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