

# Safety Data



## 1. Identification of Substance:

<b>Product Name:</b> GreenSil 70  <b>Product Use:</b> Silicone Coating  <b>Field of Application:</b> building and metal industry  <b>Identified uses:</b> Industrial/Professional use	<b>Company Details:</b> <b>Green Shield Products</b> <b>Address:</b> 40 Cypress Creek Parkway #338 Houston, Texas 77090  <b>Telephone:</b> (877) 476-7453 <b>24-Hr. Emergency Phone Number:</b> CHEMTREC (800) 424-9300
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## 2. Hazards Identification

### GHS Ratings:

Flammable liquid	3	Flash point $\geq 23$ C and $\leq 60$ C (140 F)
Oral Toxicity	Acute Tox. 4	Oral $>300$ and $\leq 2000$ mg/kg
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
Reproductive toxin	2	Human or animal evidence possibly with other information
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm <sup>2</sup> /s at 40 C.
Aquatic toxicity	C3	Acute toxicity $> 10.0$ but $\leq 100.0$ mg/l and lack of rapid degradability and log Kow $\geq 4$ unless BCF < 500 and unless chronic toxicity $> 1$ mg/l

### GHS Hazards

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof equipment when handling
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
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
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
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
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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
P370+P378	In case of fire: See Section 5 for extinguishing measures
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.



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**Signal Word: Danger**



**Acute Toxicity:**

**Eyes:** Severe irritant, may cause possible damage to cornea.

**Skin:** May cause irritation, redness, swelling, and blistering.

**Inhalation:** Mucous membrane and respiratory tract irritant, tightness of chest, headache, shortness of breath, and asthma like symptoms.

**Ingestion:** Gastrointestinal irritation, nausea, diarrhea, central nervous system depression.

**Conditions Aggravated by Exposure:** Skin disorders, respiratory disorders, asthma.

**Chronic Effects:** Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. 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	30.00% - 40.00%
Petroleum distillates, hydrotreated light	64742-47-8	10.00% - 20.00%
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%
Silica, amorphous, fumed, crystalline-free	112945-52-5	0.10% - 1.00%
Ethylbenzene	100-41-4	0.00% - 0.10%
Naphthalene	91-20-3	0.00% - 0.10%
Toluene	108-88-3	0.00% - 0.10%

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## 4. First Aid Measures:

**After Inhalation:** If person experiences nausea, headache, or dizziness, person should stop work immediately and move to fresh air until symptoms disappear.

If breathing is difficult, administer oxygen and call physician.

If person is unconscious move to fresh air and call physician immediately.

If breathing has stopped, administer artificial respiration and call physician immediately.

**After Eye Contact:** Severe eye irritant that could cause permanent damage.

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses if present and easy to do so, and continue rinsing.

Call a physician at once.

**After Skin Contact:** Moderately toxic via skin absorption. Clean affected area with soap and plenty of water.

Call a physician at once.

**After Swallowing:** Contact the nearest poison control center and follow the directions they provide.

**Notes to Physician:** Treat symptomatically. May cause cardiac arrhythmias. Aspiration hazard.

## 5. Firefighting measures

Flash Point: 51 C (124 F)

LEL: 1.00 UEL: 6.00

**Upper and Lower explosive limits listed if known.**

**Suitable Extinguishing Agents:** Water spray, CO<sub>2</sub>, 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 silicon, oxides of nitrogen, hydrocarbons, and traces of HCN

**Protective Equipment:** Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.



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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:** Do not breathe fumes, vapors or mists. Use only with adequate ventilation. 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.

**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 Limits
Siloxanes and silicones, di-methyl, hydroxy-terminated 70131-67-8	Not Established	Not Established	Not Established
Quartz 14808-60-7	Not Established	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)
Petroleum distillates, hydro-treated light 64742-47-8	500 ppm TWA 2,000 mg/m <sup>3</sup> TWA	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	Not Established

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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
2-Butanone, O,O',O''-(methylsilyldiene)trioxime	Not Established	Not Established	Not Established
Octamethylcyclotetrasiloxane 556-67-2	Not Established	Not Established	Not Established
Silica, amorphous, fumed, crystalline-free 112945-52-5	Not Established	Not Established	Not Established
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m3 TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL
Naphthalene 91-20-3	10 ppm TWA; 50 mg/m3 TWA	10 ppm TWA	NIOSH: 10 ppm TWA; 50 mg/m3 TWA 15 ppm STEL; 75 mg/m3 STEL
Toluene 108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL

## Engineering 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:

Physical properties listed where known.

<b>Appearance:</b> Viscous colored liquid <b>Vapor Pressure:</b> N/A <b>Vapor Density:</b> N/A <b>Specific Gravity:</b> 1.24 <b>Freezing point:</b> N/A <b>Boiling range:</b> 154° - 3000°C <b>Evaporation rate:</b> N/A <b>Explosive Limits:</b> 1% - 6%  <b>Autoignition temperature:</b> 232°C	<b>Odor:</b> Solvent odor <b>Odor threshold:</b> N/A <b>pH:</b> N/A <b>Melting point:</b> N/A <b>Solubility:</b> N/A <b>Flash point:</b> 124°F, 51°C <b>Flammability:</b> N/A <b>Partition coefficient (n-octanol/water):</b> <b>Decomposition temperature:</b> N/A
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## 10. Stability and Reactivity:

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

**Hazardous Polymerization:** Not expected to occur

**Dangerous Products of Decomposition:** Oxides of carbon, oxides of silicon, oxides of nitrogen, hydrocarbons, and traces of HCN. Highly reactive or incompatible with the following materials: oxidizing materials and acids.

## 11. Toxicological Information:

### Mixture Toxicity

Oral Toxicity LD50: 1,459mg/kg

Inhalation Toxicity LC50: 479mg/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)
100-41-4	Ethylbenzene
	Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)
91-20-3	Naphthalene
	Oral LD50: 1,110 mg/kg (Rat) Dermal LD50: 1,120 mg/kg (Rabbit)
108-88-3	Toluene
	Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat)



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## Toxicity Values Listed if Known

### Acute Toxicity:

**Eyes:** Severe irritant, may cause possible damage to cornea.

**Skin:** May cause irritation, redness, swelling, and blistering.

**Inhalation:** Mucous membrane and respiratory tract irritant, tightness of chest, headache, shortness of breath, and asthma like symptoms.

**Ingestion:** Gastrointestinal irritation, nausea, diarrhea, central nervous system depression.

### Chronic Effects:

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage.

**Conditions Aggravated by Exposure:** Skin disorders, respiratory disorders, and eye disorders.

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

**Target Organs:** Respiratory tract, digestive tract, eyes, skin, liver, kidneys, central nervous system

### Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
100-41-4	Ethylbenzene	0.0 to 0.1%	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
108-88-3	Toluene	0.0 to 0.1%	Toluene:
13463-67-7	Titanium dioxide	5 to 10%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
14808-60-7	Quartz	30 to 40%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
91-20-3	Naphthalene	0.0 to 0.1%	Naphthalene: IARC: Possible 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

Petroleum distillates, hydrotreated light	96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static]
Octamethylcyclotetrasiloxane	96 Hr LC50 Brachydanio rerio: >500 mg/L; 96 Hr LC50 Lepomis macrochirus: >1000 mg/L
Ethylbenzene	96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]
Naphthalene	96 Hr LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 31.0265 mg/L [static] 48 Hr LC50 Daphnia magna: 2.16 mg/L; 48 Hr EC50 Daphnia magna: 1.96 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 1.09 - 3.4 mg/L [Static]
Toluene	96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static] 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]



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## 13. Disposal considerations

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

**Empty Container Precautions:** Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal. Contact the Reusable Industrial Packaging Association (RIPA) at 301-577-3786 to find a drum re-conditioner in North America ([www.reusablepackaging.org](http://www.reusablepackaging.org)).

## 14. Transport Information

### DOT Regulated Components:

Flammable liquid, N.O.S. (Contains Petroleum Distillates)

Reportable Quantity: Non-bulk packaging in containers less than 119 gallons ship as unregulated by ground or rail transport.

Outside of these scenarios the material ships as follows:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Flammable liquid, N.O.S. (Contains Petroleum Distillates)	1993	III	3
ICAO/IATA	Flammable liquid, N.O.S. (Contains Petroleum Distillates)	1993	III	3
IMDG	Flammable liquid, N.O.S. (Contains Petroleum Distillates)	1993	III	3



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## 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:

**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](http://www.P65Warnings.ca.gov)

Naphthalene 91-20-3 878 PPM CARC

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

Quartz 14808-60-7 30 to 40 % 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 30 to 40 %

### New Jersey Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Quartz 14808-60-7 30 to 40 %

### Pennsylvania Right To Know List:

Titanium dioxide 13463-67-7 5 to 10 %

Quartz 14808-60-7 30 to 40 %

### SARA 302 Extremely Hazardous Substances:

- None

### Chemicals subject to SARA 313 Reporting:

- None

#### Country

Canada  
US

#### Regulation

Canada DSL  
Toxic Substances Control Act

#### All Components Listed

Yes  
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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Reviewer Revision 1

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