

## 1. IDENTIFICATION OF SUBSTANCE

PRODUCT NAME	Rugged Si92
PRODUCT USE	Silicone Roof Coating
USES ADVISED AGAINST	No specific uses advised against are identified.
SUPPLIER IDENTIFICATION	Rugged Coatings 5 W Airpark Vista Blvd Dayton, NV 89403
EMERGENCY TELEPHONE	(775) 451-1935

## 2. HAZARD(S) 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
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.

### LABEL ELEMENTS

#### PICTOGRAM



SIGNAL WORD	Warning
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

### MIXTURES

Limestone	10 - <50%
CAS number: 1317-65-3	
Titanium Dioxide	1 - <15%
CAS number: 13463-67-7	
Zinc oxide	0 - <5%
CAS number: 1314-13-2	
Aluminum hydroxide	0 - <15%
CAS number: 21645-51-2	
Quartz (SiO2)	<1%
CAS number: 14808-60-7	
Ammonia	<1%
CAS number: 1336-21-6	
Biocide - withheld as TRADE SECRET	<1%
CAS number: Proprietary	
Kaolin	<1%
CAS number: 1332-58-7	

### COMPOSITION COMMENTS

The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200. The product identifiers are withheld as a trade secret in accordance with 29 CFR 1910.1200.

## 4. FIRST-AID MEASURES

GENERAL INFO	If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.
INGESTION	Consult physician.
SKIN CONTACT	Clean affected area with soap and plenty of water.
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.
NOTES TO PHYSICIAN	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>EXTINGUISHING MEDIA</b>	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire. media
<b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b>	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
<b>ADVICE FOR FIREFIGHTERS</b>	
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate for firefighters protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES</b>	
Person-Related Safety Precautions	Avoid contact with skin and eyes.
<b>ENVIRONMENTAL PRECAUTIONS</b>	
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..

## 8. EXPOSURE CONTROLS/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 <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)
Titanium dioxide 13463-67-7	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	Not Established
2-Butanone, 0,0,0"-(methylsilylidyne) trioxime 22984-54-9	Not Established	Not Established	Not Established

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

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Various colored liquid	Odor:	Mild
Vapor Pressure:	N/A	Odor threshold:	N/A
Vapor Density:	N/A	pH:	N/A
Specific Gravity	1.30	Melting point:	N/A
Freezing point:	N/A	Solubility:	N/A
Boiling range:	2230 - 3000°C	Flash point:	>200°F, 93°C
Evaporation rate:	N/A	Flammability:	N/A
Explosive Limits:	N/A	Partition coefficient	N/A (n- octanol/water):
Autoignition temperature:	N/A	Decomposition temperature:	N/A

## 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.

## 11. TOXICOLOGICAL INFORMATION

### MIXTURE TOXICITY

Oral Toxicity LD50:	1,563mg/kg
Inhalation Toxicity LC50:	325mg/L

### COMPONENT TOXICITY

### 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:

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

## 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.

## 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.

### 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)

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

## 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 Carlisle Roof Foam and Coatings. The data on these sheets relates only to the specific material designated herein. Carlisle Roof Foam and Coatings 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.