

# Material Safety Data

## Sheet Super Silicone Seal

### Section 1 - Product and Company Identification

<b>Material Name</b>	- <b>White Silicone Roof Coating</b>
<b>Chemical Category</b>	- Mixture
<b>Product Code</b>	- Super Silicone Seal
<b>Product Description</b>	- Black Liquid Silicone Roof Membrane
<b>Product Use</b>	- Silicone Roof Coating
<b>Distributor</b>	- Bergstrom Industries - 850 Greenlick Hollow Rd Mount Pleasant, PA 15666

#### Telephone

<b>General/Technical</b>	- 203 858 0080 – Customer Service: 8AM – 5 PM M-F Eastern Standard Time
<b><u>Emergency</u></b>	- 956 638 2788
<b><u>Emergency</u></b>	- 703-527-3887 – CHEMTREC (Outside US)
<b>Preparation Date</b>	- 5/15/13
<b>Last Revision Date</b>	- 7/29/13

### Section 2 - Hazards Identification

#### EMERGENCY OVERVIEW

##### CAUTION

*Irritating to eyes, respiratory system and skin. Common irritation symptoms- headache, nausea, nose and throat irritation-may result from overexposure.*

<b>Prevention</b>	Avoid breathing dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of children.
<b>Response</b>	If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. In case of contact, flush eyes with large amounts of running water for at least 15 min. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention. IF ON SKIN (or hair): Remove as much of the material as possible using mechanical/waterless methods before washing with water. Seek medical attention for any burns or irritation resulting from contact with cure by-products.
<b>Storage/Disposal</b>	Keep containers properly sealed when stored indoors, in a cool well-ventilated area. Keep contents away from moisture. Keep away from heat, sparks and open flame. As standard practice never use welding or cutting torch on or near any container (even empty) as an explosion may occur. Care should be taken to prevent moisture condensation in the container. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



<b>Physical Form</b>	-	Viscous Liquid
<b>Color</b>	-	Black, Lt Grey, white
<b>Odor</b>	-	Slight sweet odor
<b>Flash Point</b>	-	<290°F
<b>OSHA</b>	-	Toxic, Irritant, Carcinogen (as respirable dust only)
<b>GHS</b>	-	Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenicity - Category 1A
<b>Route Of Entry</b>	-	Inhalation, Skin, Eye, Ingestion/Oral
<b>NFPA 704</b>	-	Health =2, Flammability = 1, Reactivity = 0

**Potential Health Effects** - No significant exposure to any ingredient is thought to occur during use in which the ingredients are bound to other materials in the liquid state as in paints and coatings.

**Inhalation** - Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).

**Skin** - Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**Eye** - Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.

**Ingestion** - Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

**Medical Conditions Generally Aggravated by Exposure:** May aggravate pre-existing respiratory and skin disorders.

**Chronic Effects:** Prolonged or repeated skin contact may cause dryness, defatting, and dermatitis.

**Carcinogenicity:** The ingredients of this product are known to the state of California to be carcinogenic. The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP. No significant exposure to any ingredient is thought to occur during the use in which the ingredients are bound to other materials in the liquid state as in paints and coatings.

**Mutagenicity:** There is no substantial evidence of mutagenic potential.

### Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Crystalline Silica	14808-60-7	29% TO 33%	238-878-4		NDA	NDA

**This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.**

See Section 11 for Toxicological Information.

### Section 4 - First Aid Measures

- Inhalation** - If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
- Skin** - Remove as much of the material as possible using mechanical/waterless methods before washing with water. Seek medical attention for any burns or irritation resulting from contact with cure by-products.
- Eye** - In case of contact, flush eyes with large amounts of running water for at least 15 min. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention.
- Ingestion** - Never give an unconscious person anything to drink. If unconscious, treat for shock. Notify a physician or the nearest poison control center immediately. If conscious, have the person rinse his mouth with

cold water. Do not attempt to induce vomiting (vomiting may occur naturally, but should be avoided if possible). If unconscious and vomiting, turn the person to his side to avoid choking.

See Section 2 for Potential Health Effects.

## Section 5 - Fire Fighting Measures

- |                                       |                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing Media</b>            | - Use foam, dry chemical, CO <sub>2</sub> , or water.                                                                                                                                                                                        |
| <b>Unsuitable Extinguishing Media</b> | - Do not use direct stream of water.                                                                                                                                                                                                         |
| <b>Firefighting Procedures</b>        | - As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.                                                               |
| <b>Fire and Explosion Hazards</b>     | - This product is not considered combustible and is not fire hazard. It will not support combustion but may decompose under fire conditions to give off toxic materials. Do not pour, spill or store near heat, spark sources or open flame. |
| <b>Hazardous Combustion Products</b>  | - Carbon monoxide, carbon dioxide, nitrogen oxides                                                                                                                                                                                           |
| <b>Protection of Firefighters</b>     | - Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode and full protective clothing (Bunker Gear) when fighting fires.                                                               |
| <b>Flash Point</b>                    | - >290°F                                                                                                                                                                                                                                     |
| <b>Explosion (Flammable) Limits</b>   |                                                                                                                                                                                                                                              |
| <b>Upper</b>                          | - N/A                                                                                                                                                                                                                                        |
| <b>Lower</b>                          | - N/A                                                                                                                                                                                                                                        |

## Section 6 - Accidental Release Measures

- |                                      |                                                                                                                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>          | - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate the area before entry.                                                                                                                           |
| <b>Emergency Procedures</b>          | - Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container. In case of large spill, dike the area to prevent this material from entering water systems or sewers. (See section 12: Disposal Considerations) |
| <b>Environmental Precautions</b>     | - Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                                                                                                          |
| <b>Containment/Clean-up Measures</b> | - Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Use appropriate Personal Protective Equipment (PPE).                                                                                                            |
| <b>Prohibited Materials</b>          | - Avoid contact with strong oxidizing agents and acids.                                                                                                                                                                                                                       |

## Section 7 - Handling and Storage

- |                               |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>               | - KEEP OUT OF THE REACH OF CHILDREN! Avoid breathing aerosols, spray mists and heated vapors. Avoid prolonged or repeated skin contact. (See Section 8—Exposure Control for details).                                                                                                                                                                                                           |
| <b>Storage</b>                | - Keep containers properly sealed when stored indoors, in a cool well-ventilated area. Keep contents away from moisture. Keep away from heat, sparks and open flame. As standard practice never use welding or cutting torch on or near any container (even empty) as an explosion may occur. Care should be taken to prevent moisture condensation in the container. Avoid Storage above 100°F |
| <b>Incompatible Materials</b> | - Avoid contact with strong oxidizing agents and acids.                                                                                                                                                                                                                                                                                                                                         |

## Section 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment Pictograms



### Respiratory

- If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

### Eye/Face

- Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

### Hands

- Wear chemical resistant gloves.

### Skin/Body

- Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

### General Industrial Hygiene Considerations

- Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

### Engineering

### Measures/Controls

- Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released. Use precaution to protect building intake from fumes and vapors created outdoors.

### Exposure Limits/Guidelines

	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California
Quartz (Crystalline Silica) (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.10 mg/m3 TWAEV (designated substance regulation)	0.1 mg/m3 TWA (respirable fraction)	0.3 mg/m3 PEL (total dust); 0.1 mg/m3 PEL (respirable dust)	0.3 mg/m3 PEL (total dust); 0.1 mg/m3 PEL (respirable dust)

### Exposure Control Notations

#### ACGIH

- Quartz (14808-60-7):Carcinogens:A2 - Suspected Human Carcinogen

#### Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

## Section 9 - Physical and Chemical Properties

<b>Physical Form:</b>	Liquid	<b>Appearance/Description:</b>	Viscous Liquid
<b>Color:</b>	White, Lt Grey, Dark Grey, Tan, Black	<b>Odor:</b>	Slight sweet odor
<b>Odor Threshold:</b>	N/A	<b>Boiling Point:</b>	310 to 385°F

<b>Melting Point:</b>	Not Determined	<b>Decomposition Temperature:</b>	N/A
<b>Specific Gravity/Relative Density:</b>	= 1.31 Water=1	<b>Density:</b>	= 10.94 lbs/gal
<b>Bulk Density:</b>	N/A	<b>Water Solubility:</b>	Negligible
<b>Vapor Pressure:</b>	= Not Determined	<b>Vapor Density:</b>	> 1 Air=1
<b>Evaporation Rate:</b>	< 1 Ether = 1	<b>VOC (Wt.):</b>	NDA
<b>VOC (Vol.):</b>	< 10 g/L	<b>Volatiles (Wt.):</b>	NDA
<b>Volatiles (Vol.):</b>	No data available	<b>Flash Point:</b>	<290°F
<b>Flash Point Test Type:</b>	(COC) ASTM D-92	<b>UEL:</b>	N/A
<b>LEL:</b>	N/A	<b>Heat of Combustion (ΔHc):</b>	Not relevant

## Section 10 - Stability and Reactivity

<b>Stability</b>	- Stable under normal temperatures and pressures.
<b>Hazardous Polymerization</b>	- Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	- Keep away from heat, sparks, or flames
<b>Incompatible Materials</b>	- Avoid strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.
<b>Hazardous Decomposition Products</b>	- By high heat or fire: Carbon Monoxide, Oxides of Nitrogen and various hydrocarbon fragments.

## Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Crystalline Silica	29% TO 33%	14808-60-7	Ingestion/Oral-Rat TDLo • 120 g/kg; Gastrointestinal:Hypermotility, diarrhea ; Gastrointestinal:Other changes

IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

See Section 2 for additional information.

## Section 12 - Ecological Information

<b>Ecological Fate</b>	- No data available.
<b>Persistence/Degradability</b>	- No data available.
<b>Bioaccumulation Potential</b>	- No data available.
<b>Mobility in Soil</b>	- No data available.

## Section 13 - Disposal Considerations

**Product** - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. For further, information contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-434-9300 or 202-382-3000). Chemical waste, even small quantities should never be poured down drains, sewers or waterways. Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

## Section 14 - Transportation Information

DOT – Department of Transportation - Roof Coating - Not Regulated

## Section 15 - Regulatory Information

### SARA Hazard Classifications

- This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a). Quartz (crystalline silica) as respirable dust only – not in liquid form

### Risk & Safety Phrases

- Warning: This product contains chemicals known to the state of California to be Carcinogenic.

### TSCA (Toxic Substances Control Act) Regulations:

This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

#### State Right To Know

Component	CAS	MA	MN	NJ	PA
Quartz (crystalline silica) as respirable dust only – not in liquid form	14808-60-7	Yes	Yes	Yes	Yes

#### Inventory

Component	CAS	EU EINECS	TSCA
Quartz (crystalline silica)	14808-60-7	Yes	Yes

Glossary: ACGIH- American Conference of Governmental Industrial Hygienist  
 IARC- International Agency for Research on Cancer  
 MSHA- Mine Safety and Health Administration  
 NIOSH- National Institute for Occupational Safety and Health  
 NTP- National Toxicology Program  
 OSHA- Occupational Safety and Health Administration

## Section 16 - Other Information

**Last Revision Date** - 7/29/2013

**Prepared By** - GG Inc.

**Disclaimer/Statement of Liability** - The manufacturer warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of manufacturer for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.