



Silent Bond

Revision Number 1

In accordance with OSHA 29 CFR 1910.1200

Revision Date - 10/04/2022

Date Created - 10/04/2022

1 • IDENTIFICATION

- 1.1. Product Identifier**
 Product Name Silent Bond
Other means of identification
 Other information Not applicable
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
 Recommended use Adhesives and/or sealants
 Restrictions on use No information available
- 1.3. Details of the supplier of the safety data sheet**
Responsible Party
 Performance Accessories
 160 South Industrial Blvd
 Calhoun GA 30701
 Telephone: (800) 325-7062
- 1.4. Emergency telephone number**
 Telephone: (800) 424-9300 (CHEMTREC)
 (703) 527-3887 (CHEMTREC International)
 (706) 277-1300 (Industrial Health/Spill Emergency)
 Email: ehs@trcc.com (Danny Welch)

2 • HAZARD(S) IDENTIFICATION


- 2.1. Classification of the substance or mixture**

Skin sensitization	Category 1
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Hazards not otherwise classified (HNOC)

Not Applicable

- 2.2. Label Elements**

EMERGENCY OVERVIEW			
Warning			
Hazard Statements			
May cause an allergic skin reaction			
			
Appearance	Paste	Physical state	Liquid
		Odor	Citrus



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Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

0% of the mixture consists of ingredient(s) of unknown toxicity

• **2.3. Other Information**

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Depending on molding type, all parts may NOT be used.

• **3.1. Substances**

Not Applicable

MIXTURE

Chemical name	CAS No	Weight-%
Limestone	1317-65-3	40 - 70
Carbonic acid, calcium salt (1:1)	471-34-1	1 - <5
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - <1
Quartz	14808-60-7	0.1 - <1

**The exact percentage (concentration) of composition has been withheld as a trade secret*

4. FIRST-AID MEASURES

• **4.1. Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. If eye irritation persists: Get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. Small amounts of toxic methanol are released by hydrolysis.



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• **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms	Itching. Rashes. Hives. May cause allergic skin reaction.
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• **4.3. Indication of any immediate medical attention and special treatment needed**

Note to physicians	May cause sensitization in susceptible persons. May cause sensitization by skin contact. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

• **5.1. Extinguishing media**

Suitable Extinguishing Media Large Fire	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Full water jet.

• **5.2. Special hazards arising from the substance or mixture**

Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO ₂).
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	None. None.

• **5.3. Advice for firefighters**

Special protective equipment for fire-fighters	As in any fire, wear pressure-demand, self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
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6. ACCIDENTAL RELEASE MEASURES

• **6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation. Stop leak if you can do it without risk. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
Other information	Refer to protective measures listed in Sections 7 and 8.

• **6.2. Environmental precautions**

Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
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• **6.3. Methods and material for containment and cleaning up**

Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for cleaning up	Use personal protective equipment as required. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
Reference to other sections	See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

• **7.1. Precautions for safe handling**

Advice on safe handling	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.
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• **7.2. Conditions for safe storage, including any incompatibilities**

Storage Conditions	Keep away from food, drink and animal feeding stuffs. Keep/store only in original container. Protect from moisture. Keep at temperatures between 41 and 95 °F.
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• **7.3 References to other sections**

Reference to other sections	Section 10: STABILITY AND REACTIVITY Section 13: DISPOSAL CONSIDERATIONS
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

• **8.1. Control parameters**

Exposure Limits	This product contains substances which in their raw state are powder form, however in this product they are in non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Carbonic acid, calcium salt (1:1) 471-34-1	-	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust



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Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Quartz	14808-60-7	0.1 - <1	

Chemical name	Argentina	Brazil	Chile	Colombia
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 7 mg/m ³	-
Quartz 14808-60-7	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.08 mg/m ³	TWA: 0.025 mg/m ³

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Limestone 1317-65-3	-	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³	TWA: 0.05 mg/m ³	0.025 mg/m ³ TWA (respirable particulate matter)	TWA: 0.025 mg/m ³

• **8.2. Exposure controls**

Other Information	Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm TWA: 260 mg/m ³ (vacated) STEL: 250 ppm STEL: 325 mg/m ³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

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Chemical name	Argentina	Brazil	Chile	Colombia
Methyl alcohol 67-56-1	STEL: 250 ppm Skin TWA: 200 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	STEL: 250 ppm TWA: 200 ppm

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm	STEL: 250ppm STEL: 328mg/m ³ TWA: 200 ppm TWA: 262 mg/m ³	250 ppm STEL 200 ppm TWA	Skin STEL: 250 ppm TWA: 200 ppm

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Color	Brown
Odor	Citrus
Odor threshold	No information available



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Property	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	> 93.3 °C / 200 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not applicable for liquids	
Flammability Limit in Air Upper flammability or explosive limits lower flammability or explosive limits	No data available No data available	None known
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

• 9.2. Other information

Explosive properties	No information available
Oxidizing properties	No information available
Solvent content (%)	No information available
Solid content (%)	No information available
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	1.85 g/cm ³
Bulk density	No information available



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10. STABILITY AND REACTIVITY

- 10.1. Reactivity

Reactivity	Product cures with moisture.
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- 10.2. Chemical stability

Chemical stability	Stable under normal conditions.
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- 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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- 10.4. Conditions to avoid

Conditions to avoid	Extremes of temperature and direct sunlight. Keep from freezing. Protect from moisture. Product cures with moisture.
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- 10.5. Incompatible materials

Incompatible materials	Water
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- 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal use conditions Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing
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11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (dermal)	26,592.20 mg/kg
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Acute toxicity

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Carbonic acid, calcium salt (1:1) 471-34-1	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus)	LC50 (4h) >3mg/ml (Rattus)
N-(3-(trimethoxysilyl)propyl) ethylenediamine 1760-24-3	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol) 1.5 - 2.44 mg/L air
Quartz 14808-60-7	>20000 mg/kg	-	-

The following values are calculated based on chapter 3.1 of the GHS document.

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	May cause sensitization by skin contact.

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Sensitizing

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Quartz (14808-60-7)

Method	Species	Results
IARC (International Agency for Research on Cancer)	Human evidence	Carcinogenic



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Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Target organ effects	Respiratory system, Eyes, Skin.
Aspiration hazard	Based on available data, the classification criteria are not met.
Other adverse effects	No information available.
Interactive effects	No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h) >10000mg/L (Oncorhynchus mykiss)	-	CE50 (48h) >1000 mg/L Daphnia Magna
Carbonic acid, calcium salt (1:1) 471-34-1	IC50 72H Algae >1000 mg/l	CL50 96H >1000 mg/l	-	EC50 48H Daphnia >1000 mg/l
N-(3-(trimethoxysilyl)propyl) ethylenediamine 1760-24-3	-	LC50 (96H) =597 mg/L (Danio rerio)Semi-static	-	EC50 (48h) =81mg/L Daphnia magna Static

12.2. Persistence and degradability

Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

Bioaccumulation	There is no data for this product.
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Ecotoxicity

Chemical name	Partition coefficient
Limestone 1317-65-3	0.9
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-0.3



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- 12.4. Mobility in soil

Mobility	No information available.
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Other adverse effects

Other adverse effects	No information available.
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13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods

Waste from residues/unused products	It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

- Transport information

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

- International Inventories

TSCA	Listed
DSL	Listed

- US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

- Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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16. OTHER INFORMATION

- Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Prepared By Product Safety & Regulatory Affairs.

Revision date 08-Dec-2020

Revision note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.