

SB-170 MULTI-PURPOSE SILICONE SEALANT

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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Product Name: SB-170 MULTI-PURPOSE SILICONE SEALANT

Company Name: SUREBOND
3925 Stern Avenue
St. Charles, IL 60174
Phone: (877) 843-1818

Emergency Phone (24 hour): CHEMTREC
(800) 424-9300

Chemtrec (outside USA): (703) 527-3887

SECTION 2 - HAZARDS IDENTIFICATION

Effects of Exposure:

Eyes: Direct contact may cause mild irritation.

Skin: May cause moderate irritation. Repeated skin contact may cause allergic skin reaction.

Inhalation: Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness and prolonged overexposure may injure blood and liver.

Ingestion: Low ingestion hazard in normal use. Repeated ingestion may injure internally.

WHMIS Hazard Symbol:



SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	%
Methyl Tri (methylethylketoxime) silane	22984-54-9	3.0 - 7.0
Amorphous Silica	7631-86-9	3.0 - 7.0
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1.0
Pigmented sealants may contain:		
Carbon Black	1333-86-4	0.1 - 1.0
Titanium Dioxide	13463-67-7	0.1 - 1.0

SECTION 4 - FIRST AID MEASURES

Eyes: Flush with copious quantities of lukewarm water. Do not attempt to physically remove the solids or gums from the eye. Seek medical attention immediately.

Skin: Remove contaminated clothing. Wash thoroughly with warm water and non-abrasive soap. Seek medical attention if you feel ill or a reaction develops.

Inhalation: Remove to fresh air and provide water. Seek medical attention if you feel ill or a reaction develops.

Ingestion: Get medical attention.

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SECTION 5 - FIRE FIGHTING MEASURES

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Flammable Conditions:	Avoid direct sources of heat or ignition in uncured state.
Extinguishing Media:	Carbon dioxide, dry chemical, water fog or foam. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.
Flash Point:	Not applicable
Flammability Limits:	Lower Explosion Limit - not available Upper Explosion Limit - not available
Autoignition Temperature:	Not available
Hazardous Decomposition Products:	Carbon dioxide, silicone dioxide, metal oxides, nitrogen oxides, formaldehyde, and traces of incompletely burned carbon products.
Sensitivity - Impact:	None
Static:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	Restrict access to the area of the spill. Provide ventilation, NIOSH / MSHA approved respirator and protective clothing. Scrape up sealant and place in container for disposal. Clean area as appropriate since silicone materials can represent a slip hazard. Cleaning may require steam or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state, county, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.
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SECTION 7 - HANDLING AND STORAGE

Handling and Storage:	Store in an adequately ventilated area under dry conditions between 50°F to 77°F and keep container tightly sealed when not in use.
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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits:	<u>Methyl Tri (methylethylketoxime)silane (CAS# 22984-54-9)</u> forms Methyl Ethyl Ketoxime (CAS# 96-29-7) upon contact with atmospheric moisture. Provide adequate ventilation to control exposures within the following exposure guidelines: Vendor Guide TWA: 3 ppm, STEL: 10 ppm; AIHA WEEL TWA: 10 ppm.
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Amorphous Silica (CAS# 7631-86-9): Although the silica is coated with the silicone sealant observe the particulate limits. OSHA PEL: TWA 80 mg/m³ / SiO₂ .
NIOSH REL: TWA 6 mg/m³.

Octamethylcyclotetrasiloxane (CAS# 556-67-2): Provide adequate ventilation to control exposures within the following exposure guidelines: ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm.

Pigmented Sealants: Carbon Black (CAS# 1333-86-4): Although the carbon black is encapsulated by the silicone sealant observe the particulate limits. OSHA PEL and ACGIH TLV: TWA 3.5 mg/m³.

Titanium Dioxide (CAS# 13463-67-7): Although the titanium dioxide is encapsulated by the silicone sealant observe the particulate limits. OSHA PEL: TWA 15 mg/m³. and ACGIH TLV: TWA 10 mg/m³.

Respiratory: Wear an organic vapor NIOSH / MSHA approved respirator.

Ventilation: In indoor applications, passive ventilation (opening of doors and windows) is recommended. Local exhaust as necessary to keep exposure levels within guidelines.

Personal Protective Equipment: Safety glasses with side-protection, impermeable gloves (e.g., neoprene, nitrile, silver shield (R)), coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste
Odor and Appearance:	Low odor, thixotropic sealant
Odor Threshold:	Not available
Specific Gravity:	1.02
Vapor Pressure:	Less than 5 mm Hg
Vapor Density:	Greater than 1
Evaporation Rate:	Not available
Boiling Point:	Not applicable
Freezing Point:	Not applicable
pH:	Not available
Coeff. Oil/Water Distribution:	Not available

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SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability:	Stable
Incompatible Materials:	Strong oxidizing agents or electrophiles (e.g. ferric chloride). Concentrated acids or bases can degrade the silicone polymer.
Reactive Conditions:	Moisture and incompatible materials.
Hazardous Polymerization:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of overexposure:	The curing vapor, Methyl Ethyl Ketoxime (CAS# 96-29-7), may cause drowsiness, injure blood, liver and may irritate or harm nose, throat, lungs and eyes. Direct contact with eyes will irritate. Direct contact with skin may irritate. <u>Pigmented Sealants:</u> Although the carbon black (CAS# 1333-86-4) is encapsulated by the silicone sealant, prolonged overexposure to carbon black dust causes lung fibrosis. Although the titanium dioxide (CAS# 13463-67-7) is encapsulated by the silicone sealant, prolonged overexposure to titanium dioxide dust causes tightness pain in the chest, coughing and difficulty breathing.
Sensitization:	Allergic skin sensitization possible through repeated direct contact with the ketoxime in the uncured sealant.
Carcinogenicity:	No ingredients considered by IARC, NTP or OSHA to be carcinogens. Male rodents exposed to Methyl Ethyl Ketoxime (CAS# 96-29-7) vapor throughout their lifetime developed liver carcinomas. These carcinomas were statistically increased at a concentration of 374 ppm. <u>Pigmented Sealants:</u> carbon black (CAS# 1333-86-4) and titanium dioxide (CAS# 13463-67-7) are classified as IARC Group 2B – Possibly Carcinogenic to Humans.
Reproductive Toxicity:	Evidence of reproductive effects in laboratory animals when exposed to Octamethylcyclotetrasiloxane (CAS# 556-67-2) by inhalation at concentrations of 500 ppm or higher for 70 days prior to mating. Methyl Ethyl Ketoxime (CAS# 96-29-7) is not considered a reproductive or developmental toxin based on studies on rats.
Teratogenicity:	No known applicable information.
Mutagenicity:	Methyl Ethyl Ketoxime (CAS# 96-29-7) is not considered mutagenic or genotoxic based on in vivo and in vitro studies.
Synergistic Products:	No known applicable information.

SECTION 12 - ECOLOGICAL INFORMATION

Air:	Complete information is not yet available.
Water:	Complete information is not yet available.
Soil:	Complete information is not yet available.

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SECTION 13 - DISPOSAL CONSIDERATIONS

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Waste Disposal: Dispose in accordance with Federal, State / County and local regulations.

SECTION 14 - TRANSPORT INFORMATION

Shipping Information: Not subject to DOT, TDG, IMDG Code or IATA Regulations.

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status: Chemical components listed on TSCA inventory except as exempted.

NFPA Profile: Health 2, Flammability 1, Reactivity 0

SARA TITLE III Chemical Listings: Section 302 Extremely Hazardous Substances (40 CFR 355): None
Section 304 CERCLA Hazardous Substances (40 CFR 302): None
Section 311/312 Hazard Class (40 CFR 370): Acute: Yes; Chronic: Yes; Fire: No; Pressure: No; Reactive: No
Section 313 Toxic Chemicals (40 CFR 372): None present or none present in regulated quantities.

State Substance List: This product contains a listed substance(s) that appears on one or more of the Substance Lists for Pennsylvania, Massachusetts and New Jersey: amorphous silica (CAS# 7631-86-9); methyl tri (methylethylketoxime) silane (CAS# 22984-54-9); dimethylsiloxane, hydroxy terminated (CAS# 70131-67-8); dimethylsiloxane, trimethylsiloxy terminated (CAS# 63148-62-9); and may contain carbon black (CAS# 1333-86-4) and titanium dioxide (CAS# 13463-67-7).

California Proposition 65 List: None known

Volatile Organic Content: 25 grams per liter, <3% by weight (Chemically Curing Sealants and Caulks – CARB Method 310: VOC less water, less exempt compounds and LVP-VOCs).

Domestic Substance List: Chemical components listed on DSL except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method or apparatus mentioned. User must make his/her own investigation to determine the suitability of the information or products for his/her particular purpose, for the protection of the environment and the health and safety of the users of this material.