Seal Bond adhesives sealants coatings

SAFETY DATA SHEET

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 2017-08-15 Date of issue: 2017-08-15 Version: 1.0 Format A_U

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture
Product Name: CS-5100 White

1.2. Intended Use of the Product

Adhesive, Sealant, or Coating

1.3. Name, Address, and Telephone of the Responsible Party

Company
Seal Bond
14851 Michael Lane
Spring Lake, MI 49456
616-850-0507

1.4. Emergency Telephone Number

Emergency Number: Chemtrec 800-424-9300 (USA) 703-527-3887 (Outside USA)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Eye Irritation Category 2A
Skin Sensitizer Category 1
Reproductive Toxicity. Category 1B

2.2. Label Elements

Hazard Pictograms

Signal Word
Danger

Hazard Statements
Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child.

Precautionary Statements

General:

Keep out of the reach of children.
Before use, read, understand, and comply with complete SDS.

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist/spray/vapors.
Wash hands, forearms, and other exposed areas thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear eye protection, protective clothing, protective gloves.

Response:

IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses, of present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Specific treatment (see Section 4 on this SDS).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity: This product contains no components with unknown acute toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary due to varying composition.

Ingredient	Product Identifier (CAS#)	% (w/w)
Polymer	Trade Secret*	15 – 40 Trade Secret*
Plasticizer	68515-48-0	5 – 30 Trade Secret*
Calcium Carbonate	471-34-1	30 – 60 Trade Secret*
Limestone	1317-65-3	5 – 20 Trade Secret*
Adhesion Promoter	Trade Secret*	0.5 – 3 Trade Secret*
Catalyst	22673-19-4	<1 Trade Secret*
TiO_2	13463-67-7	1 – 5 Trade Secret*
Stearic acid	57-11-4	<1 Trade Secret*
Quartz	14808-60-7	<1 Trade Secret*

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Skin Contact: Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause an allergic skin reaction.
Inhalation: May cause respiratory irritation.
Skin Contact: May cause an allergic skin reaction.
Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: May damage fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory **protection. Hazardous Combustion Products:** Carbon oxides (CO, CO_2), hydrocarbons, fumes, smoke, aldehydes, ketones, silica, formaldehyde, and nitrogen products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if paste enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See section 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.
Storage Conditions: Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ingredient	Location	Agency	Limit type
Calcium Oxide (1305-78-8)	Mexico	OEL TWA (mg/m³)	2 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
	USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³
	USA IDLH	US IDLH (mg/m³)	25 mg/m³
Carbon black (1333-86-4)	Mexico	OEL TWA (mg/m³)	3.5 mg/m³
	Mexico	OEL STEL (mg/m³)	7 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable fraction)
	USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
	USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

	USA IDLH	US IDLH (mg/m³)	1750 mg/m³
Calcium Carbonate (471-34-1)	USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Limestone (1317-65-3)	Mexico	OEL TWA (mg/m³)	10 mg/m³
	Mexico	OEL STEL (mg/m³)	20 mg/m³
	USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable dust)
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Quartz (14808-60-7)	Mexico	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
	USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
	USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
	USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO +5, 10mg/m3/%SiO +2
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
	USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Light Stabilizer (25973-55-1)		Internal TWA (mg/m3)	2 mg/m³ Bemis RM
Titanium dioxide (13463-67-7)	Mexico	OEL TWA (mg/m³)	10 mg/m³
	Mexico	OEL STEL (mg/m³)	20 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
	USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
	USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
	USA IDLH	US IDLH (mg/m³)	5000 mg/m³

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
Personal Protective Equipment: Protective goggles. Gloves.
Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: Not required under normal conditions of use.
Environmental Exposure Controls: Do not allow the product to be released into the environment.
Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Solid Paste
Appearance	White
Odor	None
Odor Threshold	Contact the Manufacturer
pH	Contact the Manufacturer
Evaporation Rate	Contact the Manufacturer
Melting Point	Contact the Manufacturer
Freezing Point	Contact the Manufacturer
Boiling Point	Contact the Manufacturer
Flash Point	Contact the Manufacturer
Auto-ignition Temperature	Contact the Manufacturer

Decomposition Temperature	Contact the Manufacturer
Flammability (solid, gas)	Contact the Manufacturer
Lower Flammable Limit	Contact the Manufacturer
Upper Flammable Limit	Contact the Manufacturer
Vapor Pressure	Contact the Manufacturer
Relative Vapor Density at 20 °C	Contact the Manufacturer
Relative Density	Contact the Manufacturer
Specific Gravity	Contact the Manufacturer
Solubility	Contact the Manufacturer
Partition Coefficient: N-Octanol/Water	Contact the Manufacturer
Viscosity	Contact the Manufacturer

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
10.4. **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
10.5. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
10.6. **Hazardous Decomposition Products:** None known.

SECTION 11: TOXICOLOGICAL INFORMATION

This information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may be available for exposure, or the data may not be relevant to the material as a whole.

Finely divided Quartz has caused cancer and lung disease in workers that inhale it over an extended period of time. Additionally, there have been studies performed in animals that suggest Carbon Black and Titanium Dioxide may cause lung cancer through inhalation. Studies suggest, however, that these hazards are not associated with other routes of exposure. Since this product is in a liquid/paste form, none of these components are able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz, Carbon Black, or Titanium Dioxide are not applicable to this product.

11.1. Information on Toxicological Effects - Product

Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: May cause an allergic skin reaction.
Teratogenicity: Not available
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility or the unborn child.

11.2. Information on Toxicological Effects – Materials that may be ingredients identified in Section 3.

LD50 and LC50 Data:

Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester (52829-07-9)
LC50 Inhalation Rat 500 mg/m³ (Exposure time: 4 h)

Tinuvin 328 (Benzotriazole UV absorber) (25973-55-1)
LD50 Oral Rat > 2325 mg/kg

Carbon black (1333-86-4)
LD50 Oral Rat > 8000 mg/kg
IARC Group 2B
OSHA Hazard Communication Carcinogen List

Adhesion Promoter (Trade Secret)
LD50 Oral Rat 74.60 uL/kg

Silane, ethenyltrimethoxy- (2768-02-7)
LC50 Inhalation Rat 16.8 mg/l/4h

Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-(22673-19-4)
LD50 Oral Rat 1864 mg/kg

Titanium dioxide (13463-67-7)
LD50 Oral Rat > 10000 mg/kg
IARC Group 2B
OSHA Hazard Communication Carcinogen List

Calcium Carbonate (471-34-1)
LD50 Oral Rat 6450 mg/kg

Quartz (14808-60-7)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rat > 5000 mg/kg
IARC Group 1
National Toxicology Program (NTP) Status
Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List

Petroleum distillates, hydrotreated light (64742-47-8)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rabbit > 2000 mg/kg
LC50 Inhalation Rat > 5.2 mg/l/4h

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)
LD50 Oral Rat 2550 mg/kg
LD50 Dermal Rabbit > 3160 mg/kg

Calcium oxide (1305-78-8)
LD50 Oral Rat > 2000 mg/kg
LD50 Dermal Rabbit > 2500 mg/kg

Dibutyltin oxide (818-08-6)
LD50 Oral Rat 44.9 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information
Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information of this material and/or its components.

Chemical fate information
Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Combustion products may include HCl. Facility must be capable of handling halogenated materials. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substance/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable wasted regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport
14.2. In Accordance with IMDG Not regulated for transport
14.3. In Accordance with IATA Not regulated for transport
14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

TSCA: All components are listed or are exempt from listing on the Toxic Substance Control Act Inventory.

CERCLA/SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard, Delayed (chronic) health hazard
CERCLA/SARA Section 313 - Emission Reporting: 0.1 %

15.2. US State Regulations

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product may contain one or all of the following chemicals known to the State of California to cause cancer or reproductive toxicity. Reference Section 3 for specific product composition.
Carbon black (1333-86-4)
Titanium dioxide (13463-67-7)
Quartz (14808-60-7)
DINP (68515-48-0)

Carbon black (1333-86-4)/ Titanium dioxide (13463-67-7)/ Limestone (1317-65-3)/ Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances (Only Carbon black (1333-86-4))
U.S. - Pennsylvania - RTK (Right to Know) List

Plasticizer: Trade Secret

U.S. - Massachusetts - Right To Know List

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 2017-08-15
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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616-850-0507

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.