



# SAFETY DATA SHEET

## Section 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** CEG-Lite Part A  
**Product Code:** Not available.

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Use:** Epoxy grout.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Name/Address:** Custom Building Products  
13001 Seal Beach Blvd  
Seal Beach, CA  
90740  
**Telephone Number:** (562) 598-8808

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

## Section 2: HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

#### Hazard class

Acute toxicity 3 (Inhalation)  
Skin irritation 2  
Serious eye damage 1  
Respiratory sensitization 1  
Skin sensitization 1  
Carcinogenicity 1A  
Reproductive toxicity 2  
Specific target organ toxicity - Repeated exposure 1

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

#### Hazard Pictogram:



**Signal Word:** Danger

**Hazard Statement:** Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to lungs through prolonged or repeated exposure.

**Prevention:** Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Obtain



## SAFETY DATA SHEET

special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

- Response:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
- Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

### 2.3 ADDITIONAL INFORMATION

**Hazards not otherwise classified:** Not applicable.

**WHMIS Classification(s):**

- Class D2A – Carcinogenicity
- Class D2A - Reproductive Toxicity
- Class D2A - Respiratory Sensitization
- Class D2A - Chronic Toxic Effects
- Class D2B - Skin Sensitization
- Class D2B - Skin/Eye Irritation

**WHMIS Hazard Symbols:**



**WHMIS Signal Word:** DANGER

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

Ingredient	CAS No	Wt. %
Titanium dioxide	13463-67-7	10 - 30
Silica, crystalline, quartz	14808-60-7	10 - 30
Diethylenetriamine	111-40-0	10 - 30
Isophorone diamine	2855-13-2	7 - 13
Benzyl alcohol	100-51-6	3 - 7
Ferric oxide	1309-37-1	3 - 7
Bisphenol A	80-05-7	3 - 7
Copper phthalocyanine	147-14-8	1 - 5
Tetraethylenepentamine	112-57-2	1 - 5
Silica, amorphous, fumed	112945-52-5	0.5 - 1.5



## SAFETY DATA SHEET

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### Section 4: FIRST- AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/attention.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin:** Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.
- Inhalation:** Toxic if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to lungs through prolonged or repeated exposure.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

- Note to Physicians:** Symptoms may not appear immediately.
- Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### Section 5: FIRE-FIGHTING MEASURES

#### 5.1 FLAMMABILITY

- Flammability:** Not flammable by WHMIS/OSHA criteria.

#### 5.2 EXTINGUISHING MEDIA

- Suitable Extinguishing Media:** Treat for surrounding material.
- Unsuitable Extinguishing Media:** Not available.

#### 5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

- Products of Combustion:** May include, and are not limited to: oxides of carbon.



## SAFETY DATA SHEET

### Explosion Data:

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Scoop up material and place in a disposal container. Provide ventilation.

## Section 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Avoid contact with skin and eyes. Use only in well-ventilated areas. Do not breathe vapor or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See section 8)

**General Hygiene Advice:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Keep dry in storage. (See section 10)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

#### Exposure Guidelines

Ingredient	Occupational Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Titanium dioxide	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>
Silica, crystalline, quartz	((10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (resp)) ((30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (total)) ((250)/(%SiO <sub>2</sub> +5) mppcf (resp))	0.025 mg/m <sup>3</sup>
Diethylenetriamine	1 ppm (8 hr limit)	1 ppm
Isophorone diamine	Not available.	Not available.
Benzyl alcohol	Not available.	Not available.
Ferric oxide	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (iron oxide fume; dust as Fe)
Bisphenol A	Not available.	Not available.



## SAFETY DATA SHEET

Copper phthalocyanine	Not available.	Not available.
Tetraethylenepentamine	Not available.	Not available.
Silica, amorphous, fumed	Not available.	Not available.

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTIVE MEASURES

#### Personal Protective Equipment:

**Eye/Face Protection:** Safety glasses or goggles are recommended when using product.

#### Skin Protection:

**Hand Protection:** Wear chemical-resistant gloves.

**Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** A NIOSH approved particulate respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

**General Health and Safety Measures:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Wash contaminated clothing before reusing.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Paste-like compound (pigmented)
<b>Color:</b>	Not available.
<b>Odor:</b>	Amine odor.
<b>Odor Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	10.12
<b>Melting Point/Freezing Point:</b>	Not available.
<b>Initial Boiling Point and Boiling Range:</b>	Not available.
<b>Flash Point:</b>	> 100 °C (> 212 °F)
<b>Evaporation Rate:</b>	Not available.
<b>Flammability:</b>	Not flammable.
<b>Lower Flammability/Explosive Limit:</b>	Not available.
<b>Upper Flammability/Explosive Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>VOC:</b>	Less than 40g/L, when mixed per instruction



## SAFETY DATA SHEET

<b>Relative Density/Specific Gravity:</b>	~ 1.3
<b>Solubility:</b>	Miscible in water.
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	~500 kcps
<b>Oxidizing Properties:</b>	Not available.
<b>Explosive Properties:</b>	Not available.

### Section 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

#### 10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

#### 10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

#### 10.5 INCOMPATIBLE MATERIALS

Acids. Oxidizers. Moisture.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**Symptoms related to physical/chemical/toxicological characteristics:**

**Eye:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** Toxic if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to lungs through prolonged or repeated exposure.



## SAFETY DATA SHEET

**Acute Toxicity:**

Ingredient	LC50	LD50
Titanium dioxide	Not available.	Oral >10000 mg/kg, rat Dermal >10000mg/kg, rabbit
Silica, crystalline, quartz	Not available.	Oral TD <sub>10</sub> 120 g/kg, rat
Diethylenetriamine	Not available.	Oral 1080 mg/kg, rat Dermal 1090 mg/kg, rabbit
Isophorone diamine	Not available.	Oral 1030 mg/kg, rat
Benzyl alcohol	Inhalation 8.8 mg/L 4 h, rat	Oral 1230 mg/kg, rat Dermal 2000 mg/kg, rabbit
Ferric oxide	Not available.	Oral >10000 mg/kg, rat
Bisphenol A	Not available.	Oral 3200 mg/kg, rat Dermal 3 mL/kg, rabbit
Copper phthalocyanine	Not available.	Not available.
Tetraethylenepentamine	Not available.	Oral 2100 mg/kg, rat Dermal 660 µL/kg, rabbit
Silica, amorphous, fumed	Not available.	Oral 3160 mg/kg, rat

**Calculated overall Chemical Acute Toxicity Values**

LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
8.8 mg/L 4 hr, rat	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Titanium dioxide	G-A4, I-2B, O, CP65
Silica, crystalline, quartz	G-A2, I-1, N-1, O, CP65
Diethylenetriamine	Not listed.
Isophorone diamine	Not listed.
Benzyl alcohol	Not listed.
Ferric oxide	G-A4, I-3
Bisphenol A	Not listed.
Copper phthalocyanine	Not listed.
Tetraethylenepentamine	Not listed.
Silica, amorphous, fumed	I-3

\* See Section 15 for more information.

**11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE**

- Skin Corrosion/Irritation:** Causes skin irritation.
- Serious Eye Damage/Irritation:** Causes serious eye damage.
- Respiratory Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sensitization:** May cause an allergic skin reaction.
- STOT-Single Exposure:** Based on available data, the classification criteria are not met.
- Chronic Health Effects:**
  - Carcinogenicity:** May cause cancer.
  - Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.



## SAFETY DATA SHEET

### Reproductive Toxicity:

**Developmental:** Suspected of damaging the unborn child.

**Teratogenicity:** Based on available data, the classification criteria are not met.

**Embryotoxicity:** Based on available data, the classification criteria are not met.

**Fertility:** Suspected of damaging fertility.

**STOT-Repeated Exposure:** Causes damage to lungs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

**Toxicologically Synergistic Materials:** Not available.

**Other Information:** Not available.

### Section 12: ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

**Acute/Chronic Toxicity:** May cause long-term adverse effects in the aquatic environment.

#### 12.2 PERSISTENCE AND DEGRADABILITY

Not available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

**Bioaccumulation:** Not available.

#### 12.4 MOBILITY IN SOIL

Not available.

#### 12.5 OTHER ADVERSE EFFECTS

Not available.

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

**Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**Other disposal recommendations:** Not available.

### Section 14: TRANSPORT INFORMATION

#### 14.1 UN NUMBER

**DOT**

Not regulated.

**TDG**

Not regulated.

#### 14.2 UN PROPER SHIPPING NAME

**DOT**

Not applicable.

**TDG**

Not applicable.



# SAFETY DATA SHEET

## 14.3 TRANSPORT HAZARD CLASS (ES)

**DOT**

Not applicable.

**TDG**

Not applicable.

## 14.4 PACKING GROUP

**DOT**

Not applicable.

**TDG**

Not applicable.

## 14.5 ENVIRONMENTAL HAZARDS

Not available.

## 14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

## 14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

### Section 15: REGULATORY INFORMATION

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Titanium dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, quartz	Not listed.	Not listed.	Not listed.	Not listed.
Diethylenetriamine	Not listed.	Not listed.	Not listed.	Not listed.
Isophorone diamine	Not listed.	Not listed.	Not listed.	Not listed.
Benzyl alcohol	Not listed.	Not listed.	Not listed.	Not listed.
Ferric oxide	Not listed.	Not listed.	Not listed.	Not listed.
Bisphenol A	Not listed.	Not listed.	Not listed.	313
Copper phthalocyanine	Not listed.	Not listed.	Not listed.	Not listed.
Tetraethylenepentamine	Not listed.	Not listed.	Not listed.	Not listed.
Silica, amorphous, fumed	Not listed.	Not listed.	Not listed.	Not listed.

### State Regulations

#### California Proposition 65:

This product contains chemicals known to the State of California to cause cancer (Silica, crystalline; Titanium dioxide).



## SAFETY DATA SHEET

**Global Inventories:**

Ingredient	Canada DSL/NDL	USA TSCA
Titanium dioxide	DSL	Yes.
Silica, crystalline, quartz	DSL	Yes.
Diethylenetriamine	DSL	Yes.
Isophorone diamine	DSL	Yes.
Benzyl alcohol	DSL	Yes.
Ferric oxide	DSL	Yes.
Bisphenol A	DSL	Yes.
Copper phthalocyanine	DSL	Yes.
Tetraethylenepentamine	DSL	Yes.
Silica, amorphous, fumed	DSL	No.

**NFPA National Fire Protection Association:**

<b>Health:</b>	3
<b>Fire:</b>	1
<b>Reactivity:</b>	0

**HMIS-Hazardous Materials Identification System**

<b>Health:</b>	3*
<b>Fire:</b>	1
<b>Physical Hazard:</b>	0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

**CP65 California Proposition 65**

**OSHA (O) Occupational Safety and Health Administration.**

**ACGIH (G) American Conference of Governmental Industrial Hygienists.**

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

**IARC (I) International Agency for Research on Cancer.**

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N) National Toxicology Program.**

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

**Section 16: OTHER INFORMATION**

**Date of Preparation:** November 26, 2013

**Version:** 1.0

**Revision Date:** November 26, 2013



## SAFETY DATA SHEET

**Disclaimer:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Prepared by:** Nexreg Compliance Inc.  
Phone: (519) 488-5126  
[www.nexreg.com](http://www.nexreg.com)

**Prepared for:** Custom Building Products

**End of Safety Data Sheet**



# SAFETY DATA SHEET

## Section 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** CEG-IG 100% Solids Industrial Grade Epoxy Grout - part B

**Product Code:** Not Available

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Product Use:** Grout

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

**Name/Address:** Custom Building Products  
3490 Piedmont Road, Suite 1300  
Atlanta, GA 30329

**Telephone Number:** (562)-598-8808

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

## Section 2: HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)

Skin Irritation	Category 2
Eye Irritation	Category 2
Skin Sensitization	Category 1
STOT-SE	Category 3
STOT-RE	Category 1
Carcinogenicity	Category 1A

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

**2.2a SIGNAL WORD:**  
DANGER

**2.2b HAZARD STATEMENTS**

Causes skin irritation  
Causes eye irritation  
May cause an allergic skin reaction  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure  
May cause cancer



## SAFETY DATA SHEET

### 2.2c HAZARD PICTOGRAMS



### 2.2d PRECAUTIONARY STATEMENTS

<b>i. PREVENTION</b>	Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
<b>ii. RESPONSE</b>	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor. If exposed or concerned: get medical advice/attention
<b>iii. STORAGE</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>iv. DISPOSAL</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

### 2.3 ADDITIONAL INFORMATION

#### 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not applicable

#### 2.3b UNKNOWN ACUTE TOXICITY

1% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### 2.3c WHMIS CLASSIFICATION

Class D2B – Skin/Eye Irritant  
Class D2A – Chronic Toxic Effects  
Class D2A - Carcinogenicity  
Class D2B – Skin sensitization

#### 2.3d LABEL ELEMENTS ACCORDING TO WHMIS

##### i. WHMIS HAZARD SYMBOLS





# SAFETY DATA SHEET

- ii. **SIGNAL WORD**  
DANGER!

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Crystalline Silica, Quartz	14808-60-7	40 – 70%*
Bisphenol F Epoxy Resin	9003-36-5	10 – 30%*
Glass Oxide	65997-17-3	7 – 13%*
Bisphenol F – Phenol Polymer	28064-14-4	1 – 5%*
Benzyl Alcohol	100-51-6	1 – 5%*
Titanium Dioxide	13463-67-7	0.1 – 1%*

\*Means that the component will fall into one the ranges specified due to batch-to-batch variability.

## Section 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	In case of contact, immediately flush eyes for several minutes. Remove contact lenses if easy to do. Continue rinsing. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Ingestion:</b>	If swallowed, rinse mouth, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.



## SAFETY DATA SHEET

<b>Skin Contact:</b>	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.
<b>Inhalation:</b>	May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

## Section 5: FIRE-FIGHTING MEASURES

### 5.1 FLAMMABILITY

**Flammability:** Not Flammable by WHMIS/OSHA HAZCOM2012 Criteria

### 5.2 EXTINGUISHING MEDIA

**5.2a. Suitable Extinguishing Media:**

Treat for surrounding material.

**5.2b. Unsuitable Extinguishing Media:**

Not available.

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:**

May include, and are not limited to: oxides of carbon

**5.3b. Explosion Data**

**i. Sensitivity to Mechanical Impact:**

Not available.

**ii. Sensitivity to Static Discharge:**

Not available.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES



## SAFETY DATA SHEET

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Pick up large pieces, and then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

## Section 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious glove, such as nitrile, and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep dry until use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETER

#### Exposure Guidelines

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Crystalline Silica, Quartz	10 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>
Bisphenol F Epoxy Resin	Not available	Not available
Bisphenol F – Phenol Polymer	Not available	Not available



## SAFETY DATA SHEET

Benzyl Alcohol	Not available	Not available
Glass Oxide	15 mg/m <sup>3</sup>	Not available
Titanium Dioxide	5 mg/m <sup>3</sup> , Res 15 mg/m <sup>3</sup> , Total	0.025 mg/m <sup>3</sup>

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**
  1. **Hand Protection:** Wear chemical resistant gloves.
  2. **Body Protection:** Wear suitable protective clothing
- iii. **Respiratory Protection:** A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Paste-like compound
<b>Odor:</b>	Off White
<b>Odor Threshold:</b>	Odorless
<b>pH:</b>	7
<b>Melting point/Freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	>100C (>212F)
<b>Evaporation rate (Water=1):</b>	Not available
<b>Flammability:</b>	Not flammable
<b>Upper Flammability/Explosive Limit:</b>	Not available
<b>Lower Flammability/Explosive Limit:</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	1 – 2 g/cc



## SAFETY DATA SHEET

<b>Solubility in Water:</b>	Not available
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity (cps):</b>	Not available
<b>VOC Content:</b>	53 g/L

### Section 10: STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

#### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

#### 10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

#### 10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

#### 10.5. INCOMPATIBLE MATERIALS

Strong acids. Strong Oxidizers.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield oxides of carbon.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

#### 11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

**Eye Contact:** Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin Contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable



## SAFETY DATA SHEET

crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity		
Chemical Name	LD50	LC50
Crystalline Silica, Quartz	Not Toxic	Not Toxic
Bisphenol F Epoxy Resin	>5,000 mg/kg Oral >2,000 mg/kg Dermal	Not Available
Glass Oxide	Not Toxic	Not Toxic
Bisphenol F – Phenol Polymer	>2,000 mg/kg Oral >2,000 mg/kg Dermal	Not available
Benzyl Alcohol	1230 mg/kg, Oral	8.8 mg/L 4hr rat
Titanium Dioxide	>5,000 mg/kg Oral	Not available

Calculated overall chemical acute toxicity values	
LD50 (oral)	LD50 (dermal)
>2,000 mg/kg	>2,000 mg/kg

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)
Crystalline Silica, Quartz	N-A2, I-1, O-1, ACGIH-A2, CP65
Bisphenol F Epoxy Resin	Not Listed
Glass Oxide	ACGIH-A4, I-3, O-1, CP65
Bisphenol F – Phenol Polymer	Not Listed
Benzyl Alcohol	Not Listed
Titanium Dioxide	N-A2, I-2B, O-1 , ACGIH-A4, CP65

### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
<b>Skin Corrosion/Irritation:</b>	Causes skin irritation
<b>Serious Eye Damage/Irritation:</b>	Causes eye irritation
<b>Respiratory Sensitization:</b>	Not available
<b>Skin Sensitization:</b>	May cause an allergic skin reaction
<b>STOT-Single Exposure:</b>	May cause respiratory irritation
<b>Aspiration Hazard:</b>	Not available
LONG-TERM	
<b>Carcinogenicity:</b>	May cause cancer
<b>Germ Cell Mutagenicity:</b>	Not available



## SAFETY DATA SHEET

<b>Reproductive Toxicity:</b>	Not available
<b>STOT-Repeated Exposure:</b>	Causes damage to organs through prolonged or repeated exposure
<b>Synergistic/Antagonistic Effects:</b>	Not available

### Section 12: ECOLOGICAL INFORMATION

#### 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Crystalline Silica, Quartz	Not available	Not available
Bisphenol F Epoxy Resin	1.6 mg/L Daphnia	0.55 mg/L
Glass Oxide	Not available	Not available
Bisphenol F – Phenol Polymer	3.5 mg/L Daphnia	5.7 mg/L Golden Orfe
Benzyl Alcohol	460 mg/L P	360 mg/L Daphnia
Titanium Dioxide	>100 mg/L Daphnia	72860 mg/L Fresh water Fish

#### 12.2. PERSISTENCE AND DEGRADABILITY

Not available

#### 12.3. BIOACCUMULATIVE POTENTIAL

Not available

#### 12.4. MOBILITY IN SOIL

Not available

#### 12.5. OTHER ADVERSE EFFECTS

Not available

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

#### 13.2. OTHER DISPOSAL CONSIDERATIONS

Not available

### Section 14: TRANSPORT INFORMATION



## SAFETY DATA SHEET

DOT (U.S.)	TDG (CANADA)
<b>UN NUMBER:</b>  Not regulated	<b>UN NUMBER:</b>  Not regulated
<b>UN PROPER SHIPPING NAME:</b>  Not regulated	<b>UN PROPER SHIPPING NAME:</b>  Not regulated
<b>TRANSPORT HAZARD CLASS (ES):</b>  Not regulated	<b>TRANSPORT HAZARD CLASS (ES):</b>  Not regulated
<b>PACKING GROUP (if applicable):</b>  Not regulated	<b>PACKING GROUP (if applicable):</b>  Not regulated

**Note:** For Bulk and/or Vessel Shipment, please contact the manufacture.

**14.1. ENVIRONMENTAL HAZARDS**

Not available

**14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not available

**14.3. SPECIAL PRECAUTIONS FOR USER**

Do not handle until all safety precautions have been read and understood.

### Section 15: REGULATORY INFORMATION

**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL**

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

**15.2. US FEDERAL INFORMATION:**

SARA TITLE III				
Chemical Name	Section 302 EHS TPQ (lbs)	Section 304 EHS RQ (lbs)	CERCLA RQ (lbs.)	Section 313
Crystalline Silica, Quartz	Not listed	Not listed	Not listed	Not listed
Bisphenol F Epoxy Resin	Not listed	Not listed	Not listed	Not listed
Glass Oxide	Not listed	Not listed	Not listed	Not listed
Bisphenol F – Phenol Polymer	Not listed	Not listed	Not listed	Not listed
Benzyl Alcohol	Not listed	Not listed	Not listed	Not listed



## SAFETY DATA SHEET

Titanium Dioxide	Not listed	Not listed	Not listed	Not listed
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### 15.3. US STATE RIGHT TO KNOW LAWS:

<b>California Proposition 65:</b>	<b>WARNING!</b> This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm
<b>Other U.S. States "Right to Know" Lists:</b>	
<b>New Jersey:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Bisphenol F Epoxy Resin <b>CAS#9003-36-5</b> Glass Oxide <b>CAS#65997-17-3</b> Bisphenol F – Phenol Polymer <b>CAS#28064-14-4</b> Benzyl Alcohol <b>CAS#100-51-6</b>
<b>Pennsylvania:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Bisphenol F Epoxy Resin <b>CAS#9003-36-5</b> Glass Oxide <b>CAS#65997-17-3</b> Bisphenol F – Phenol Polymer <b>CAS#28064-14-4</b> Benzyl Alcohol <b>CAS#100-51-6</b>
<b>Massachusetts:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Bisphenol F Epoxy Resin <b>CAS#9003-36-5</b> Glass Oxide <b>CAS#65997-17-3</b> Bisphenol F – Phenol Polymer <b>CAS#28064-14-4</b> Benzyl Alcohol <b>CAS#100-51-6</b>
<b>Minnesota:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Bisphenol F Epoxy Resin <b>CAS#9003-36-5</b> Glass Oxide <b>CAS#65997-17-3</b> Bisphenol F – Phenol Polymer <b>CAS#28064-14-4</b> Benzyl Alcohol <b>CAS#100-51-6</b>
<b>Florida:</b>	Not Available
<b>Michigan:</b>	Not Available

### 15.4. GLOBAL INVENTORIES

Chemical Name	USA TSCA	Canada DSL/NDL
Crystalline Silica, Quartz	Yes	DSL
Bisphenol F Epoxy Resin	Yes	DSL
Glass Oxide	Yes	DSL
Bisphenol F – Phenol Polymer	Yes	DSL
Benzyl Alcohol	Yes	DSL
Titanium Dioxide	Yes	DSL



# SAFETY DATA SHEET

## 15.5. NFPA AND HMIS RATINGS:

<p align="center"><b>HEALTH HAZARD</b></p> <p><b>4</b> <b>EXTREME</b> - Highly toxic - May be fatal on short-term exposure.</p> <p><b>3</b> <b>SERIOUS</b> - Toxic - Full protective suit and breathing apparatus should be worn.</p> <p><b>2</b> <b>MODERATE</b> - Breathing apparatus and face mask must be worn.</p> <p><b>1</b> <b>SLIGHT</b> - Breathing apparatus may be worn.</p> <p><b>0</b> <b>MINIMAL</b> - No precautions necessary.</p>	<p align="center"><b>FLAMMABILITY HAZARD</b></p> <p><b>4</b> <b>EXTREME</b> - Extremely flammable gas or liquid. Flash Point below 73°F.</p> <p><b>3</b> <b>SERIOUS</b> - Flammable. Flash Point 73°F to 100°F.</p> <p><b>2</b> <b>MODERATE</b> - Combustible. Requires moderate heating to ignite. Flash Point below 200°F.</p> <p><b>1</b> <b>SLIGHT</b> - Slightly combustible. Requires strong heating to ignite.</p> <p><b>0</b> <b>MINIMAL</b> - Will not burn under normal conditions.</p>
<p align="center"><b>SPECIFIC HAZARD</b></p> <p>OXIDIZER <b>OXY</b></p> <p>ACID <b>ACID</b></p> <p>ALKALI <b>ALK</b></p> <p>CORROSIVE <b>COR</b></p> <p>Use NO WATER <b>W</b></p> <p>RADIATION ☸</p>	<p align="center"><b>INSTABILITY HAZARD</b></p> <p><b>4</b> <b>EXTREME</b> - Explosive at room temperature.</p> <p><b>3</b> <b>SERIOUS</b> - May detonate if shocked or heated under confinement or mixed with water.</p> <p><b>2</b> <b>MODERATE</b> - Unstable. May react with water.</p> <p><b>1</b> <b>SLIGHT</b> - May react if heated or mixed with water.</p> <p><b>0</b> <b>MINIMAL</b> - Normally stable. Does not react with water.</p>

**NFPA**

**HMIS**

Hazard Index	
<b>4</b>	<b>Severe Hazard</b>
<b>3</b>	<b>Serious Hazard</b>
<b>2</b>	<b>Moderate Hazard</b>
<b>1</b>	<b>Slight Hazard</b>

<b>2</b> <b>HEALTH</b>	<b>PROTECTIVE EQUIPMENT INDEX</b>	
<b>1</b> <b>FLAMMABILITY</b>	<b>A</b>	<b>G</b>
<b>0</b> <b>REACTIVITY</b>	<b>B</b>	<b>H</b>
<b>0</b> <b>PERSONAL PROTECTION</b>	<b>C</b>	<b>I</b>
<b>B</b>	<b>D</b>	<b>J</b>
	<b>E</b>	<b>K</b>
	<b>F</b>	<b>X</b> Ask your supervisor for special handling instructions.



# SAFETY DATA SHEET

## 15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

<b>CP65</b>	California Proposition 65
<b>OSHA (O)</b>	Occupational Safety and Health Administration
<b>ACGIH (G)</b>	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> <li>• A1 – Confirmed human carcinogen</li> <li>• A2 – Suspected human carcinogen</li> <li>• A3 – Animal carcinogen</li> <li>• A4 – Not classifiable as a human carcinogen</li> <li>• A5 – Not suspected a human carcinogen</li> </ul>
<b>IARC (I)</b>	International Agency for Research on Cancer <ul style="list-style-type: none"> <li>• 1 – The agent (mixture) is carcinogenic to humans</li> <li>• 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> <li>• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
<b>NTP (N)</b>	National Toxicology Program <ul style="list-style-type: none"> <li>• 1 – Known to be carcinogens</li> <li>• 2 – Reasonably anticipated to be carcinogens</li> </ul>

## Section 16: OTHER INFORMATION

**Date of Preparation:** May 27, 2015

**Version:** 2.0

**Revision Date:** N/A

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

**Prepared by:** Custom Building Products  
Phone: (562)-968-2980  
[www.custombuildingproducts.com](http://www.custombuildingproducts.com)

### End of Safety Data Sheet