

## Cem EZ™

**SECTION 1 : Identification of the substance/mixture and of the supplier**

**Product name:** Cem EZ™  
**Manufacturer/Supplier Trade name:** Danville Materials, LLC  
**Manufacturer/Supplier Article number:** 90-00010, 90-00011, 90-00012, 90-00013

**Recommended uses of the product and restrictions on use:****Manufacturer Details:**

Danville Materials, LLC  
2875 Loker Avenue East  
Carlsbad, CA 92010

**Supplier Details:**

Danville Materials, LLC  
2875 Loker Avenue East  
Carlsbad, CA 92010

**Emergency telephone number:**

ChemTrec Inc 1-800-424-9300, 703-527-3887 (CHEMTREC)

**SECTION 2 : Hazards Identification****Classification of the substance or mixture:****Irritant**

Skin sensitization, category 1  
Eye irritation, category 2A  
Skin sensitization, category 1

Skin sensitization - Category 1  
Skin irritation - Category 2  
Eye Irritation - Category 2

**Signal word :** Warning

**Hazard statements:**

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Contaminated work clothing should not be allowed out of the workplace. Specific treatment (see supplemental first aid instructions on this label).  
IF ON SKIN: Wash with soap and water.  
Take off contaminated clothing and wash before reuse.  
If skin irritation or rash occursL 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. Dispose of contents and container as instructed in Section 13.

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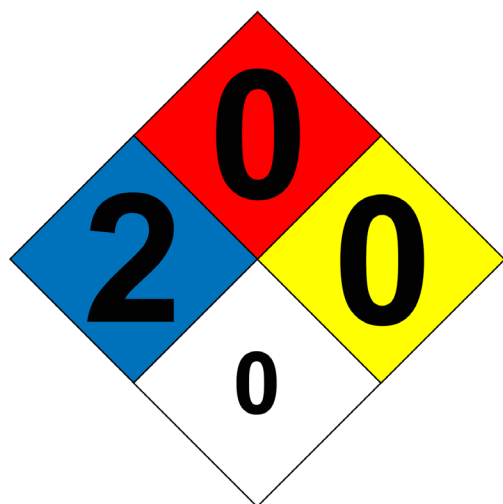
Other NON-GHS Classification:

WHMIS

D2B



NFPA/HMIS



NFPA SCALE (0-4)

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>
<b>Personal Protection</b>	<b>X</b>

HMIS RATINGS (0-4)

**SECTION 3 : Composition/information on ingredients**

Ingredients:		
Barium Glass	CAS# 13255-26-0	50-70%
YbF3	CAS# 13760-80-0	1-20%
Percentages are by weight		

**SECTION 4 : First aid measures**

**Description of first aid measures**

**After inhalation:** Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

**After skin contact:** Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

**After eye contact:** Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Keep eyelids open while rinsing. Seek medical attention.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately seek medical attention.

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**Most important symptoms and effects, both acute and delayed:**

Shortness of breath. Headache. Nausea. Dizziness. Severe skin or eye irritation, redness or burning sensation. None identified.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

**SECTION 5 : Firefighting measures****Extinguishing media**

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.  
For safety reasons unsuitable extinguishing agents: None identified.

**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of acrid acrylic gases.

**Advice for firefighters:**

**Protective equipment:** Wear protective eyewear, gloves, and clothing. Refer to Section 8.

**Additional information (precautions):** Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

**SECTION 6 : Accidental release measure****Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational.

**Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

**Methods and material for containment and cleaning up:**

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

**Reference to other sections:**

None

**SECTION 7 : Handling and storage****Precautions for safe handling:**

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke or use personal products when handling chemical substances. Contact of resin-based composites with skin should be avoided, especially by anyone having known resin allergies. Avoid eugenol as it will inhibit set. Use only in dry field. Water and oily air will inhibit set and bond. Use a dispensing gun to avoid hand strain.

**Conditions for safe storage, including any incompatibilities:**

Keep away from food and beverages. Protect from freezing and physical damage. Keep container tightly sealed. Store away from incompatible materials. Do not store composite material in proximity of eugenol-containing products, nor let the composite come into contact with materials containing eugenol. Eugenol can impair the polymerization of the composite and cause discoloration. Refrigerate. Do not freeze. Use at room temperature.

**SECTION 8 : Exposure controls/personal protection**

## Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

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<b>Control Parameters:</b>	112926-00-8, Silica Amorphous, OSHA PEL 20 mppcf TWA; (80)/(%SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA.
<b>Appropriate Engineering controls:</b>	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
<b>Respiratory protection:</b>	Not required under normal conditions of use. Where risk assesment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a back up to engineering controls. When necessary use NIOSH approved breathing equipment.
<b>Protection of skin:</b>	Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used technique without touching outer surface. Avoid skin contact with gloves. Wear protective clothing.
<b>Eye protection:</b>	Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.
<b>General hygiene measures:</b>	Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

### SECTION 9 : Physical and chemical properties

<b>Appearance (physical state, color):</b>	Tooth Colored Resin Paste	<b>Explosion limit lower; Explosion limit upper;</b>	Not Determined Not Determined
<b>Odor:</b>	Slight	<b>Vapor pressure:</b>	Not Determined
<b>Odor threshold:</b>	Odorless	<b>Vapor density:</b>	Not Applicable
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	Not Determined
<b>Melting/Freezing point:</b>	Not Determined	<b>Solubilities:</b>	Insoluble (in water)
<b>Boiling point/Boiling range:</b>	Not Determined	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	>+104°C	<b>Auto/Self-ignition temperature</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gaseous)</b>	Not Determined	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> Not Determined			

### SECTION 10 : Stability and reactivity

<b>Reactivity:</b> Nonreactive under normal conditions.
<b>Chemical stability:</b> Stable under normal conditions.
<b>Possible hazardous reactions:</b> None identified.
<b>Conditions to avoid:</b> Prolonged extreme heat beyond 40°C and intense light
<b>Incompatible materials:</b> Not Determined

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**Hazardous decomposition products:** Not determined.

## SECTION 11 : Toxicological information

<b>Acute Toxicity:</b>		
<b>Oral:</b>		LD50 Rate >5000mg/kg
<b>Chronic Toxicity:</b> No additional information.		
<b>Corrosion Irritation:</b>		
<b>Ocular:</b>		Irritation to eyes and skin may be caused by uncured resins.
<b>Sensitization:</b>		May cause skin sensitivity in select individuals.
<b>Single Target Organ (STOT):</b>		No additional information.
<b>Numerical Measures:</b>		No additional information.
<b>Carcinogenicity:</b>		No additional information.
<b>Mutagenicity:</b>		No additional information.
<b>Reproductive Toxicity:</b>		No additional information.

## SECTION 12 : Ecological information

**Ecotoxicity:** None

**Persistence and degradability:** Not determined.

**Bioaccumulative potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** None identified.

## SECTION 13 : Disposal considerations

**Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14 : Transport information

**UN-Number**

Not Regulated

**UN proper shipping name**

Not Regulated

**Transport hazard class(es)**

**Packing group:** Not Regulated

**Environmental hazard:**

**Transport in bulk:**

**Special precautions for user:**

## SECTION 15 : Regulatory information

**United States (USA)****SARA Section 311-312 (Specific toxic chemical listings):**

Acute

**SARA Section 313 (Specific toxic chemical listings):**

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None

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

None of the ingredients are listed

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed

**Canada****Canadian Domestic Substances List (DSL)**

All ingredients are listed

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed

**SECTION 16 : Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full TEXT Phrases:**

None

**Abbreviations and acronyms:**

Effective date: 02.11.2015

Last updated: 05.14.2015