



**SAFETY DATA SHEET**

(Revision: 1/15/2019; Supersedes: 3/23/2017)

**1. Identification**

- Product Type: Gypsum Casting Investment
- Trade Names:
 

<b>Beauty-Cast</b>	<b>Cristobalite Inlay</b>	<b>Prestobalite</b>
<b>Hi-Heat Soldering</b>	<b>Novocast</b>	<b>Omni-Cast</b>
<b>Jewelry Investment</b>	<b>Soldering Investment</b>	<b>Speed-E Soldering</b>
<b>Cristobalite Model Investment Powder</b>		
- Company: **Whip Mix Corporation**  
 361 Farmington Ave.  
 Louisville, Kentucky, USA 40209  
 Emergency Telephone Number: (502)-637-1451  
 Fax Number: (502) 634-4512

**Transportation** CHEMTREC 1(800) 424-9300 (U.S. and Canada)  
**Emergencies:** International Calls: 1- 703-527-3887 (Collect calls accepted)

**2. Hazard Identification.**

**OSHA/WHMIS/GHS Classification:**

Health Hazards	Physical Hazards
Specific Target Organ Toxicity – Repeat Exposure Category 1 Carcinogen Category 1A	Not Hazardous

**Labeling:**

Danger!



**Hazard Statements:**

May cause cancer if inhaled.  
 Causes damage to lung through prolonged or repeated exposure by inhalation.

**Precautionary Statements**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves and eye protection.  
 IF exposed or concerned: Get medical attention.  
 Get medical attention if you feel unwell.  
 Store locked up.  
 Dispose of contents and container in accordance with local and national regulations.

**3. Composition/Information on Ingredients.**

<u>Substance</u>	<u>CAS No.</u>	<u>%</u>
Silica, Crystalline, Quartz	14808-60-7	0-80
Silica, Crystalline, Cristobalite	14464-46-1	0-80
Plaster of Paris	26499-65-0	0-50
Calcium Sulfate Hemihydrate	10034-76-1	0-25

**4. First-Aid Measures.**

**Inhalation:** Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.

**Eyes:** Flush with large quantities of water, holding the eyelids apart. If irritation persists, consult a physician.

**Skin:** No first aid is generally required. Wash skin with soap and water.

**Ingestion:** May cause gastrointestinal discomfort and intestinal blockage. If swallowed, drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**Most important symptoms/effects, acute and delayed:** May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. When mixed with water, this material hardens and becomes very hot – may cause burns. Prolonged inhalation of crystalline silica dust may cause lung disease and cancer.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** Immediate medical attention is required for ingestions.

**5. Fire-Fighting Measures.**

**Suitable (and unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Water may cause product to solidify.

**Specific Hazards Arising From the Chemical:** The product does not burn but will decompose producing calcium oxide and sulfur oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

**6. Accidental Release Measures.**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing as described in Section 8.

**Environmental Hazards:** Report releases as required by local and national authorities.

**Methods and Materials for Containment and Cleaning up:** Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air.

**7. Handling and Storage.**

**Precautions for Safe Handling:** Avoid contact with eyes. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

**Conditions for Safe Storage, including Any Incompatibilities:** Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage

**8. Exposure Controls/Personal Protection.****Occupational Exposure Limits:**

Silica, Crystalline, Quartz	0.05 mg/m <sup>3</sup> TWA OSHA PEL 0.025 mg/m <sup>3</sup> TWA TLV (respirable fraction)
Silica, Crystalline, Cristobalite	0.05 mg/m <sup>3</sup> TWA OSHA PEL 2 (% Silica + 2) 0.025 mg/m <sup>3</sup> TWA TLV (respirable fraction)
Plaster of Paris	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Calcium Sulfate Hemihydrate (as PNOC)	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Graphite	15 mppcf TWA OSHA PEL 2 mg/m <sup>3</sup> TWA ACGIH TLV (respirable)

Refer to local regulations for exposure limits not listed above.

**Appropriate engineering controls:** Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

**Respiratory protection:** If the exposure levels are exceeded and irritation is experienced an approved dust/mist respirator appropriate for the form and concentration of the contaminants should be used. In the USA refer to OSHA regulations. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Skin protection:** For prolonged use or in dusty conditions, wear impervious gloves.

**Eye protection:** Chemical safety goggles if needed to avoid eye contact.

**Other:** Impervious clothing as needed to avoid contamination of personal clothing.

### 9. Physical and Chemical Properties.

**Appearance:** Powder, with variety of colors

**Odor:** Odorless.

**Odor threshold:** Not applicable

**Melting point/freezing point:** Not applicable

**Flash point:** Not applicable

**Flammability (solid, gas):** Not applicable

**Flammable limits: LEL:** Not applicable

**Vapor pressure:** Not applicable

**Relative density:** Not applicable

**Partition coefficient: n-octanol/water:** Not available

**Decomposition temperature:** 2642°F / 1450°C

**pH:** Not applicable

**Boiling point:** Not applicable

**Evaporation rate:** Not applicable

**UEL:** Not applicable

**Vapor density (air = 1):** Not applicable

**Solubility In Water:** Not applicable

**Auto-ignition temperature:** Not applicable

**Viscosity:** Not applicable

### 10. Stability and Reactivity.

**Reactivity:** None known.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Avoid unintentional contact with water. Product will harden and produce heat.

**Incompatible materials:** Avoid acids and oxidizing agents.

**Hazardous decomposition products:** Thermal decomposition (above 2642°F/1450°C) may generate calcium oxide and sulfur dioxide Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

### 11. Toxicological Information.

**Eyes:** Dust may cause mechanical irritation and possible injury.

**Skin:** Dust may cause irritation. When mixed with water, the plaster of paris hardens and becomes hot – may cause skin burns.

**Ingestion:** No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal blockage and discomfort.

**Inhalation:** Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

**Chronic Health Effects:** Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

**Carcinogenicity:** Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components of this product are listed as carcinogens by OSHA, IARC or NTP.

#### Acute Toxicity Data:

Silica, Crystalline, Quartz: Oral rat LD50 >22,500 mg/kg

Silica, Crystalline, Cristobalite: No toxicity data available

Plaster of Paris: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 3.26 mg/L/4 hr (structurally similar chemical)

Calcium Sulfate Hemihydrate: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 3.26 mg/L/4 hr

Graphite: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >2000 mg/m3 (no deaths occurred)

### 12. Ecological Data.

#### Ecotoxicity:

Silica, Crystalline, Quartz: 72 hr LC50 Carp - >10,000 mg/L

Silica, Crystalline, Cristobalite: No data available

Plaster of Paris: 96 hr LC50 >1790 Pimephales promelas mg/L, 48 hr LC50 daphnia magna >79 mg/L, 72 hr EC50

Pseudokirchnerella subcapitata >79 mg/L (structurally similar chemical)

Calcium Sulfate Hemihydrate: : 96 hr LC50 >1790 Pimephales promelas mg/L, 48 hr LC50 daphnia magna >79 mg/L,

72 hr EC50 Pseudokirchnerella subcapitata >79 mg/L (structurally similar chemical)

Graphite: 96 hr EC50 Danio rerio >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata >100 mg/L

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances such plaster of paris, calcium sulfate hemihydrate, crystalline silica, quartz, crystalline silica, cristobalite and graphite.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** Not required.

**13. Disposal Considerations.**

Dispose in accordance with all national and local regulations.

**14. Transport Information.**

US DOT: Not Regulated

Canada TDG: Not Regulated

IMDG: Not Regulated

IATA/ICAO: Not Regulated

**Special precautions:** Not applicable

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form

**15. Regulatory Information.**

**Safety, health, and environmental regulations specific for the product in question**

**US Regulations**

**SARA Section 313 (40 CFR 372):** This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** Refer to Section 2 for the OSHA Hazard Classification.

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA inventory

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Formaldehyde	50-00-0	2 ppm	Cancer
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**16. Other Information.**

- HMIS Rating: Health 1\* Flammability 0 Reactivity 0 Other 0  
*Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum*

Prepared By:

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Date: 1/15/19

Translated By:

Date: