

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071274356

N/A



**SAFETY DATA SHEET**  
**Regulation (EC) No 1907/2006 (REACH)**

(Revision: 10/17/2014)

**Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.**

**1.1 Product Identifier**

**Product Type:** Model Stones, Plasters and Die Materials

**Trade Names:**

Bitestone	Buffstone	Die Stone, Ivory	FlowStone
Jade Stone	Hard Rock	Handi Mix	Laboratory Plaster
FlowStone, Black	Lean Rock Ivory	Microstone	Mounting Plaster
Prima-Rock	Quickstone	RapidFlask	ResinRock
Mounting Stone	Silky-Rock	Snap Stone	SpinBase
Super Die	CAD Stone	Economy Stone	SpinStone
Ulti Rock	PL Lab Stone Blue	PL DPG Labstone Buff	PL Lab Plaster Fast Set
Orthodontic Stone*	Orthodontic Plaster*		

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

**Product Use:** Modeling stones and plasters

**Uses Advised Against:** For professional use only.

**1.3 Details of the Supplier of the Substance or Mixture**

**Manufacturer:**

**Whip Mix Corporation**  
361 Farmington Avenue  
Louisville, Kentucky, USA 40209  
**Emergency Telephone Number:** (502) 634-1451  
**Fax Number:** (502) 634-4512

**EU Importer**

**Whip Mix Europe GmbH**  
Wißstrasse 26 – 28  
D – 44137 Dortmund  
Germany  
**+49 (0) 231 / 567 70 8-0**

**1.4 Emergency Telephone Number**

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

**Other Product Information:** [www.whipmix.com](http://www.whipmix.com)

**Section 2 Hazard Identification**

**2.1 Classification of the Substance or Mixture:**

**CLP/GHS Classification (1272/2008):**

Health Hazards	Physical Hazards	Environmental Hazards
Specific Target Organ Toxicity – Repeat Exposure Category 2 (H373)	Not Hazardous	Not Hazardous

**EU Classification (67/548/EEC):** Not dangerous

**2.2 Label Elements**

**Danger!**



Contains crystalline silica, quartz

H373 May cause damage to organs through prolonged or repeated exposure.

P260 Do not breathe dust, fume, gas, mist, vapors or spray.

P314 Get medical attention if you feel unwell.

P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

### Section 3 Composition/Information on Ingredients.

<u>Substance</u>	<u>CAS No. / EC Number</u>	<u>%</u>	<u>EU Classification (67/548/EEC)</u>	<u>CLP/GHS Classification (1272/2008)</u>
Plaster of Paris	26499-65-0 / 607-950-0	0 – 100	Not dangerous	Not hazardous
Calcium Sulfate Hemihydrate	10034-76-1 / 600-067-1	0 - 100	Not dangerous	Not hazardous
Crystalline Silica, Quartz	14808-60-7 / 238-878-4	< 5	Xn R48/20	STOT RE 1
Ammonium Chloride	12125-02-9 / 235-186-4	< 5	Xn, Xi R22, R36	Acute Tox. 4 H302 Eye Irrit. 2 H319
Boric Acid	10043-35-3 / 233-139-2	< 2	T R60, R61	Repr. 1B H360

See Section 16 for full text of GHS and EU Classifications.

### Section 4 First-Aid Measures.

#### 4.1 Description of 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.

**4.2 Most Important symptoms and effects, both 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.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is required for ingestions.

### Section 5 Fire-Fighting Measures.

**5.1 Extinguishing Media:** Use media appropriate for surrounding fire. Water may cause product to solidify.

**5.2 Special Hazards Arising from the Substance or Mixture:** The product does not burn but will decompose producing calcium oxide and sulfur oxides.

**5.3 Advice for Fire-Fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

### Section 6 Accidental Release Measures.

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

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

**6.3 Methods and Material 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.

**6.4 Reference to Other Sections:** Refer to Section 8 for personal protective equipment and Section 13 for disposal

information.

## Section 7 Handling and Storage.

**7.1 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.

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

### 7.3 Specific end use(s):

**Industrial uses:** None identified

**Professional uses:** Model stones, plaster and die materials for dental technicians.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control Parameters:

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) 4 mg/m <sup>3</sup> TWA UK WEL (respirable aerosol) 10 mg/m <sup>3</sup> TWA UK WEL (inhalable aerosol)
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) 4 mg/m <sup>3</sup> TWA UK WEL (respirable aerosol) 10 mg/m <sup>3</sup> TWA UK WEL (inhalable aerosol)
Crystalline Silica Quartz	10 mg/m <sup>3</sup> TWA PEL (respirable fraction) % Silica + 2 30 mg/m <sup>3</sup> TWA PEL (total dust) % Silica + 2 0.025 mg/m <sup>3</sup> TWA TLV (respirable fraction) 0.1 mg/m <sup>3</sup> TWA Belgium OEL
Ammonium Chloride (as fume or respirable dust)	10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL ACGIH TLV (fume) 10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL Belgium OEL 10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL UK WEL
Boric Acid	2 mg/m <sup>3</sup> TWA, 6 mg/m <sup>3</sup> STEL ACGIH TLV (inhalable fraction) 2 mg/m <sup>3</sup> TWA, 6 mg/m <sup>3</sup> STEL ACGIH TLV Belgium OEL 0.5 mg/m <sup>3</sup> TWA, 1 mg/m <sup>3</sup> STEL German DFG MAK

### 8.2 Exposure Controls:

**Recommended Monitoring Procedures:** None.

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

#### Personal Protective Measures

**Respiratory protection:** If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

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

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

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

## Section 9 Physical and Chemical Properties.

### 9.1 Information on basic Physical and Chemical Properties

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

**Odor:** Odorless.

**Odor threshold:** Not applicable  
**Melting point/freezing point:** 293°F / 145°C  
**Flash point:** Not applicable  
**Flammability (solid, gas):** Not applicable  
**Flammable limits: LEL:** Not applicable  
**Vapor pressure:** Not applicable  
**Relative density:** 2.5 – 3.5  
**Partition coefficient: n-octanol/water:** Not available  
**Decomposition temperature:** 2642°F / 1450°C  
**Explosive Properties:** Not applicable

**pH:** Not available  
**Boiling point:** Not applicable  
**Evaporation rate:** Not applicable  
**UEL:** Not applicable  
**Vapor density (air = 1):** Not applicable  
**Solubility In Water:** 0.2%  
**Auto-ignition temperature:** Not applicable  
**Viscosity:** Not applicable  
**Oxidizing Properties:** Not applicable

**9.2 Other Information:** None available

## Section 10 Stability and Reactivity.

- 10.1 Reactivity:** None known.  
**10.2 Chemical stability:** Stable  
**10.3 Possibility of hazardous reactions:** None known.  
**10.4 Conditions to avoid:** Avoid unintentional contact with water. Product will harden and produce heat.  
**10.5 Incompatible materials:** Avoid acids and oxidizing agents.  
**10.6 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.

## Section 11 Toxicological Information.

### 11.1 Information on Toxicological Effects:

#### Potential Health Effects:

**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:

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

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

Ammonium Chloride: Oral rat LD50 1410 mg/kg, Dermal rat LD50 >2000 mg/kg

Boric Acid: Oral rat LD50 >2600 mg/kg, Inhalation rat LC50 >2.03 mg/L/5 hr, Dermal rabbit LD50 >2000 mg/kg

## Section 12. Ecological Data.

### 12.1 Ecotoxicity:

Plaster of Paris: 96 hr LC50 Pimephales promelas >1970 mg/L, 48 hr LD50 daphnia magna >79 mg/L, 72 hr EC50

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

Calcium Sulfate Hemihydrate: No data available

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

Ammonium Chloride: 96 hr LC50 Prosopium williamsoni 46.27 mg/L, 48 hr EC50 daphnia magna 136.6 mg/L, 5 day

EC50 Chlorella vulgaris 1300 mg/L

Boric Acid: 96 hr LC50 Pimephales promelas 79.7 mg/L, 48 hr LC50 Ceriodaphnia dubia 102 mg/L

**12.2 Persistence and degradability:** Biodegradation is not applicable to inorganic substances such as plaster of Paris, calcium sulfate hemihydrate and crystalline silica, quartz.

**12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No data available

**12.5 Results of PVT and vPvB assessment:** Not required.

**12.6 Other adverse effects:** Not required.

### Section 13. Disposal Considerations.

**13.1 Waste Treatment Methods:** Dispose in accordance with all national and local regulations.

### Section 14. Transport Information.

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Not Regulated			
Canadian TDG		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			
IATA/ICAO		Not Regulated			

**14.6 Special precautions for User:** Not applicable

**14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

### Section 15 Regulatory Information.

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

##### 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:** Chronic Health

**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:

Crystalline Silica

14808-60-7

<5%

Cancer

##### Canadian Regulations

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Class D Division 2A (Very Toxic material causing other toxic effects)

**Canadian Environmental Protection Act:** None at this time.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

**16. Other Information.**

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

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

T Toxic

Xi Irritant

Xn Harmful

R22 Harmful if swallowed.

R36 Irritating to eyes.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R60 May impair fertility.

R61 May cause harm to the unborn child.

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Acute Tox 4 Acute Toxicity Category 4

Eye Irrit 2 Eye Irritation Category 4

Repr 1 B Toxic to Reproduction Category 1B

STOT RE 1 Specific Target Organ Toxicity Repeat Exposure Category 1

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