

# MATERIAL SAFETY DATA SHEET

## PLASTERMAX™

MSDS DATE: 9/14/2010

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAMES: PlasterMax™ and PlasterMax Decorative  
PRODUCT CODES: PM, PMD

MANUFACTURER: GigaCrete, INC  
ADDRESS: 6775 Speedway Blvd  
Suite M105  
Las Vegas, NV 89115

TELEPHONE NUMBER FOR INFORMATION: (702) 643-6363  
SALES CONTACT: (702) 643-6363  
FAX: (702) 643-1480

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### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**MAJOR COMPOUNDS:** The product primarily consists of a complex mixture of magnesium and calcium carbonates, oxides, sulfates, phosphates, glass oxides, chlorides, and silicates.

SECTION 2 NOTES: Product may contain <1% proprietary additives.

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### SECTION 3: HAZARDS IDENTIFICATION

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HMIS code: Flammability: 0 Health: 1 Reactivity: 0 Personal Protection: A (glasses)

**EMERGENCY OVERVIEW:** This product is not expected to present unusual hazards during use. The powder may present a respiratory system irritant, and the wet mix can be irritating to the skin. The setting reactions of PlasterMax™ are exothermic, and the amount of heat produced is directly related to the ambient temperature and the thickness of the application. Because of this, the product should not be used for live casting.

**ROUTES OF ENTRY:** Inhalation, ingestion (dry); ingestion (wet). While possible, ingestion is an unlikely route of exposure. Product may irritate skin and eyes in both wet and powder form.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Airborne dust may be irritating to the eyes.

**SKIN:** Prolonged contact can be drying.

**INGESTION:** If ingested in sufficient quantity, may cause gastrointestinal upset.

**INHALATION:** Chronic overexposure to nuisance dust may irritate the lungs and throat.

#### CARCINOGENICITY

Crystalline silica has been recognized as a human carcinogen (Group 1- IARC; "known to be a human carcinogen"- NTP). Testing by XRD has revealed no detectable crystalline silica in PlasterMax™ powder; however, it may exist as an impurity.

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### SECTION 4: FIRST AID MEASURES

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**EYES:** Flush with clean water for 15 minutes. If irritation persists, seek medical attention.

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**SKIN:** Wash hands with soap and water after use. Moisturizer is recommended after prolonged exposure.

**INGESTION:** If ingested in sufficient quantity as to cause discomfort, provided that the person is conscious, offer water and seek medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting except as directed by trained medical personnel.

**INHALATION:** Remove the victim to fresh air. Dust irritation should resolve quickly; however, if effects persist or later develop, seek medical attention.

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### SECTION 5: FIRE-FIGHTING MEASURES

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NFPA code: Flammability: 0 Health: 0 Reactivity: 0 Special: 0  
FLASH POINT: Not combustible.

UNUSUAL EXTINGUISHING MEDIA: None. Use medium appropriate to the primary cause of the fire.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Use dustless methods of cleanup for dry powder, if possible. NIOSH-approved respirators are advised. If the material has not been exposed to an external contaminant, it may be disposed of as any other cement.

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### SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Store in a dry location above 32° F.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### COMPONENT

All carbonates, chlorides, oxides, sulfates, and calcium silicates:

	<u>mg/m3</u>
OSHA PEL-TWA (respirable):	5
OSHA PEL-TWA (total):	15
ACGIH TLV TWA (respirable):	10

Magnesium silicate (non-fibrous; non-asbestos):

CAS NO.: 14807-96-6

	<u>mg/m3</u>
OSHA PEL-TWA (respirable):	2
ACGIH TLV TWA (respirable):	2
NIOSH REL TWA (respirable):	2

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### TRACE MATERIALS:

<u>NAME</u>	<u>CAS NO.</u>	<u>% WT</u>
Crystalline silica	14808-60-7	0
	<u>mg/m3</u>	
OSHA PEL-TWA (respirable):	0.1	
ACGIH TLV TWA (respirable):	0.025	
NIOSH REL TWA (respirable):	0.05	

**ENGINEERING CONTROLS:** Provide adequate air movement and mechanical ventilation if used in an enclosed area.

**VENTILATION :** Use local exhaust or mechanical ventilation to meet PEL requirements when handling dry, unmixed powder. None required for wet, plastic mortar. Provide adequate air movement and mechanical ventilation if used in an enclosed area.

**RESPIRATORY PROTECTION:** Provide workers with NIOSH-approved respirators when working with dry powders and spray applications.

**EYE PROTECTION:** Wear safety glasses with side shields to protect against accidental contact.

**SKIN PROTECTION:** Waterproof gloves are recommended.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Long sleeves; apron as necessary.

**WORK HYGIENIC PRACTICES:** Normal housekeeping procedures. Avoid contact with eyes.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Off-white powder.

**ODOR:** None

**PHYSICAL STATE:** Solid.

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):**

@ 25 °C

1.1-2.2 when mixed with water

**SOLUBILITY IN WATER:** Slightly soluble (0.1%-1%)

**PERCENT SOLIDS BY WEIGHT:** >99%

**VOLATILE ORGANIC COMPOUNDS (VOC):** 0%

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### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Do not permit the powder to contact water prior to the desired mixing time.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Exposure to strong acids will yield carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard: Fresh, wet mixed plastic cement; Chronic Health Hazard: Crystalline silica.\* the wet cement may cause skin and eye irritation.

Toxicity data for crystalline silica: Oral LD 50 Rat: 500 mg/kg

*\*Note: No crystalline silica has been detected in this product by XRD analysis. Trace amounts may appear due to naturally-occurring impurities in raw materials. The State of California (Proposition 65) requires warning for exposure to crystalline silica when there is a potential for exposure to airborne particles of respirable size.*

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### SECTION 12: ECOLOGICAL INFORMATION

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#### COMPONENT ANALYSIS – ECOTOXICITY

Magnesium silicate: 96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]

Other components: No data available.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations.

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### SECTION 14: TRANSPORT INFORMATION

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PlasterMax™ is not hazardous under U.S. DOT regulations.

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### SECTION 15: REGULATORY INFORMATION

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This trade name product contains no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.

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This product contains no ingredients on the list of Extremely Hazardous Substances for SARA Emergency planning.

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### SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** This Material Safety Data Sheet (MSDS) has been developed for current compliance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. The information contained herein is based upon data considered accurate. GigaCrete, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees and users assume all risks associated with the use of this material.