

MATERIAL SAFETY DATA SHEET

Product: bioPrimer

MSDS DATE: 06/06 /2008

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: bioPrimer

MANUFACTURER(S): Igea Calce SRL BioLime, LLC
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PRODUCT NAMES: bioPrimer
PRODUCT USES: Plaster

CHEMICAL FAMILY: Alkaline earth hydroxide
CHEMICAL NAME: Calcium Hydroxide
CHEMICAL FORMULA: Ca(OH)₂
OTHER NAMES: Cal, calcium(II) hydroxide, hydrated lime, milk of lime, pickling lime, slaked lime

SECTION 1 NOTES: Also applies to any **earthen, mineral, or iron oxide colored pigments** which are not listed in this MSDS, but that may be utilized for color enhancing purposes in the chemical described in this MSDS.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Exposure Limits:

| <u>INGREDIENT</u> | <u>CAS NO.</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|-------------------|----------------|---------------------|---------------------|
| CALCIUM HYDROXIDE | 1305-62-0 | 15mg/m ³ | 10mg/m ³ |

Other substances representing a hazard:
No known substances in this category present.

Substances present at a concentration below the minimum danger threshold:
No known substances in this category present.

Other substances with occupational exposure limits:
No known substances in this category present.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Effects of Overexposure

ROUTES OF ENTRY: Skin, Ingestion, Inhalation

POTENTIAL HEALTH EFFECTS

EYES: May be irritating to the eyes, with burning, itching, or redness

SKIN: Not absorbed through the skin, but calcium hydroxide is caustic and may cause irritation of skin.

INGESTION: Potential vomiting which may lead to gastrointestinal disorders with nausea and possible constipation. May be toxic to kidneys.

INHALATION: Airborne dust particulate that is inhaled by sanding, grinding, etc., may lead to respiratory tract and mucous membrane irritation.

CARCINOGENICITY

NTP: 0

IARC: 0

OSHA: 0

ACGIG: 0

(The National Toxicology Program (NTP), IARC, OSHA, and ACGIH have not identified calcium hydroxide, or the intended use of our mineral and/or iron oxide color pigments as carcinogens).

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SECTION 4: FIRST AID MEASURES

FIRST AID: In case of contact with eyes, immediately flush eyes with large quantities of clean water for at least 15 minutes. Call a physician if irritation persists. Or with skin contact, flush with water and soap. If swallowed, do not induce vomiting. Due to increased pH levels, if conscious, have victim drink large quantities of water, a glass of milk and/or fruit juice, and contact a physician.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY: Noncombustible and nonexplosive

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small Spill:

Calcium hydroxide is not considered a hazardous material. If spillage occurs, use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the spilled surface and dispose of according to local and regional requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the spill area to evacuation through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV (on the MSDS pg.1) and with local authorities.

SECTION 7: HANDLING AND STORAGE

STORAGE: Hygroscopic. For extended storage periods, add a layer of water that thinly coats the surface of the material in the container, then tightly close container lid on all sides securely. Keep container in a cool, well-ventilated area.

OTHER PRECAUTIONS: Do not ingest. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

RESPIRATORY PROTECTION: If user operations generate dust, use a NIOSH-approved self contained breathing apparatus to avoid inhalation of the product.

EYE PROTECTION: Use ANSI-approved eyewear when handling this product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full suit, boots, gloves should be used when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid. Putty/cream-like consistency. With pigments added, colors may vary.

ODOR: Slight earthy odor

TASTE: Chalky

PHYSICAL STATE: Solid

pH AS SUPPLIED: 12-12.5

FREEZING POINT: Not relevant

VOLATILE ORGANIC COMPOUNDS (VOC): 0

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Absorbs carbon dioxide in the air to form calcium carbonate.

INCOMPATIBILITY (MATERIALS TO AVOID): Keep away from acids, re-active fluorinated compounds, re-active brominated compounds.

REACTIVITY: May react violently with strong acids.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Chronic exposure to calcium hydroxide on skin, ingestion, can be slightly hazardous to human health.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The product itself and its products of pigmentation are not toxic at normal use levels for its intended purposes, which are for structural finishing use. Although due to its high pH it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

ENVIRONMENTAL FATE: This material shows no bioaccumulation or food chain toxicity potential.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Small: Sweep and place bulk material in containers and remove for disposal or use if not contaminated or wet. Flush spill area with water. Calcium hydroxide may be characterized as a hazardous waste due to its high pH; however, the final, cured product is not hazardous. Dispose of in a landfill in accordance with all governmental regulations.

Large: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

RCRA / CERCLA / SUPERFUND HAZARD CLASS: This product is not classified as a hazardous waste under RCRA, CERCLA, or SUPERFUND.

SECTION 14: TRANSPORT INFORMATION

DOT classification: Not a DOT controlled material (United States).

SECTION 15: OTHER INFORMATION

PREPARATION INFORMATION: BioLime, LLC
Created: June 06, 2008
Updated: June 06, 2008

DISCLAIMER:

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