

# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Biomix 35, BioMix 50  
Product Use: Natural Hydraulic Lime Mortar

### Company Identification

Edison Coatings, Inc.  
3 Northwest Drive  
Plainville, CT 06062

Edison Coatings Tech Info Phone: 1-860-747-2220  
Emergency Phone: 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### Primary Routes of Exposure:

Eye contact  
Inhalation  
Skin Contact

### Eye Contact:

- May cause immediate or delayed irritation or inflammation
- Moderate eye irritation
- Wet product may cause chemical burns and blindness

### Skin Contact:

- May cause drying of the skin, with consequent mild irritation
- Exposure to wet product may cause chemical burns
- Prolonged exposure may cause allergic reactions, in the form of a mild rash, or severe skin ulcers

### Ingestion:

- Ill effects are possible if larger quantities are consumed

**Inhalation:**

- Prolonged exposure to dust particles may aggravate other lung conditions and cause silicosis.
- May cause irritation to the moist mucous membranes of the nose, throat, and other respiratory areas.

**Target Organ and Other Health Effects:**

- No information is known on relative effects on target organs.

**Carcinogens:**

- This product is not listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances listed as carcinogens by these organizations.
- Crystalline silica, a potential trace level contaminant in this product, is now classified by IARC as a known human carcinogen (Group 1). NTP has characterized respirable silica as “reasonably anticipated to be [a] carcinogen.”

**3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS**

<b>Ingredient Name CAS-No.</b>	<b>Approx. Weight%</b>	<b>Chemical Name</b>
Lime 1305-62-0	<20%	Calcium Hydroxide
Di-Calcium Silicate 10034-77-2	<15%	Di-Calcium Silicate
Limestone 471-34-1	<5%	Calcium Carbonate
Calcium Sulfate 7778-18-9	0.2 – 1.0%	Calcium Sulfate
Magnesium Oxide 1309-48-4	0 – 0.8%	Magnesium Oxide
Calcium Oxide 1305-78-8	0 – 0.1%	Calcium Oxide
Crystalline Silica 14808-80-7	<80%	Silicon Dioxide
Chromates Various	0 – 0.001%	Various
Arsenic (Impurity in Limestone) 7440-38-2	<0.5 ppm	Arsenic
Lead (Impurity in Limestone) 7439-92-1	<1 ppm	Lead
Nuisance Dust Various	Various	Various

## **4. First Aid Measures**

### **Eye Contact:**

Flush eyes with plenty of water for 15 min. while holding eyelids open. Get medical attention.

### **Skin Contact:**

Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment in all cases of prolonged exposure to wet product.

### **Ingestion:**

Do not induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.

### **Inhalation:**

Remove victim to fresh air. Seek medical help if coughing and other symptoms do not subside. Inhalation of gross amounts of this product requires immediate medical attention.

### **Medical Conditions Aggravated by Exposure:**

Pre-existing upper respiratory and lung diseases. Unusual sensitivity to hexavalent chromium salts.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing Media:**

None required.

### **Unusual fire and explosion hazards:**

None.

### **Fire Fighting Procedures:**

Material will not burn. None required.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Action to be taken if material is released or spilled:**

If the material is spilled, use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment.

## **7. HANDLING AND STORAGE**

### **Precautions to be taken in handling and storage:**

Keep this product dry until use. Normal temperatures do not affect the material. Avoid breakage of bagged material or spills of bulk material. Promptly remove dusty clothing or clothing which is wet with cement fluids and launder before reuse. Wash thoroughly after exposure to dust or wet cement mixtures or fluids. Use dustless systems for handling, storage, and cleaning so that airborne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sill, edges, machinery, or equipment. Maintain clean and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty.

## **8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS**

### **Personal Protective Equipment**

#### **Eye and Face Protection:**

Where potentially subject to splashes or puff of material, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with this product.

#### **Skin Protection:**

Avoid contact with unhardened product. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to unhardened product might occur, wear impervious clothing and gloves to eliminate skin contact. Where required, wear sturdy boots that are impervious to water to eliminate foot and ankle exposure. Do not rely on barrier creams; barrier creams should not be used in place of gloves. Periodically wash areas contacted by dry product or wet product or fluids with a pH-neutral soap. Wash again at the end of work. If irritation occurs, immediately wash affected area and seek treatment. If clothing becomes saturated with wet product, it should be removed and replaced with clean, dry clothing.

#### **Other Personal Protection Data:**

Eye wash fountains and safety showers should be available for emergency use. Usual industrial work clothes should be worn.

#### **Respiratory Protection:**

Avoid actions that cause dust to become airborne. However, a respirator is recommended for protection against crystalline silica. Use only a NIOSH-approved respirator.

**Ventilation:**

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

**Exposure Guidelines**

There is no data available on either OSHA Permissible Exposure Limits (PEL's) or ACGIH Threshold Limit Value (TLV's) for components of product.

**9. PHYSICAL PROPERTIES**

Odor:	Normal for this product.
Physical State:	Solid; Graded, Granular Powder
pH:	Not Determined
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Boiling Point:	Not Determined
Solubility in Water:	Miscible
Coefficient of water/oil distribution:	Not Determined
Density (grams per milliliter):	1.44
Evaporation Rate (Ether=1):	Not Determined
Flash Point (Fahrenheit):	Not Determined
Flash Point (Celsius):	Not Determined
Lower Explosive Limit (%):	Not Determined
Upper Explosive Limit (%):	Not Determined
Autoignition temperature:	Not Determined

**10. STABILITY AND REACTIVITY**

Stability:	All components are stable.
Conditions to Avoid:	Sub-freezing temperatures, Unintentional contact with water
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Silica will decompose with hydrofluoric acid, which gives off a corrosive gas, Silicon Tetrafluoride. Adding water produces caustic calcium hydroxide.
Sensitivity to static discharge:	Not determined.

## **11. TOXICOLOGICAL INFORMATION**

### **Mutagens/Teratogens/Carcinogens:**

This product is not listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances listed as carcinogens by these organizations. Crystalline silica, a potential trace level contaminant in this product, is now classified by IARC as a known human carcinogen (Group 1). NTP has characterized respirable silica as “reasonably anticipated to be [a] carcinogen.”

## **12. ECOLOGICAL DATA**

No information on ecology is available.

## **13. DISPOSAL CONSIDERATIONS**

The packaging and material maybe land-filled, however, material should be covered to minimize generation of airborne dust. RCRA: Crystalline silica (quartz) is NOT classified as a hazardous waste under the Resource Conservation and Recovery Act. Dispose of waste material according to local, state, and federal regulations. Dispose of bags in an approved landfill or incinerator

## **14. TRANSPORTATION INFORMATION**

No information on transportation is available.

## **15. REGULATORY INFORMATION**

### OSHA Hazard Communication Rule, 29 CFR 1910.1200

This product is considered a “hazardous chemical” under this regulation, and should be part of any hazard communication program.

### CERCLA/Superfund, 40 CFR 117 and 302

This product is not classified as a hazardous substance under these regulations.

### SARA (Title III), Section 311 and 312

This product qualifies as a “hazardous substance” with delayed health effects.

### Toxic Substance Control Act

Some substances in this product are on the TSCA inventory list, one of them being Crystalline silica (quartz) appearing on the EPA TSCA inventory under CAS# 14808-80-7.

The Federal Hazardous Substances Act

This product is a “hazardous substance” subject to statutes promulgated under the subject act.

NTP

A component of this product, respirable crystalline silica (quartz) is classified as a probable carcinogen.

California PROPOSITION 65

A component of this product, crystalline silica (quartz) is classified as a substance known to the state of California to be a carcinogen.

## **16. OTHER INFORMATION**

Effective Date:	16/Apr/2015
Revision Date:	16/Apr/2015