



MATERIAL SAFETY DATA SHEET

IDENTITY (Normal Weight Concrete Masonry)

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

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| Manufacturer's name: Maschmeyer Concrete Company of Florida | Emergency Telephone Number: 561-844-9994 |
| Address (Number, Street, City, State and ZIP Code): 1142 Watertower Road, Lake Park, FL 33403 | Telephone Number for Information: 561-844-9994 |
| | Date Prepared: July 1, 2010 |
| | Signature of Preparer (optional) |

Section II—Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity, Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|---|---|---|--------------------------|--------------|
| Calcium Carbonate (respirable fraction) 5 mg/m ³ (total dust) 15 mg/m ³ | 10 mg/m ³ | NIOSH REL (respirable) 5 mg/m ³ (total) 10 mg/m ³ | | |
| Crystalline Silica SiO ₂ (respirable fraction) [10 mg/m ³ ÷ (%SiO ₂ +2)], (total dust) [30 mg/m ³ ÷ (%SiO ₂ +2)] | (respirable fraction) 0.05 mg/m ³ | NIOSH REL (respirable fraction) 0.05 mg/m ³ | | |
| Amorphous Silica [80 mg/m ³ ÷ %SiO ₂] (inhalable fraction) 10 mg/m ³ (respirable fraction) 3 mg/m ³ | NIOSH REL (total dust) 6 mg/m ³ | | | |
| Alumina Al ₂ O ₃ (respirable fraction) 5 mg/m ³ (total dust) 15 mg/m ³ | 10 mg/m ³ | | | |
| Portland Cement (respirable) 5 mg/m ³ (total dust) 15 mg/m ³ | (total dust) 10 mg/m ³ | NIOSH REL (respirable) 5 mg/m ³ (total) 10 mg/m ³ | | |
| Iron Oxide Fe ₂ O ₃ 10 mg/m ³ | 5 mg/m ³ | NIOSH REL 5 mg/m ³ | | |
| Other Particulates (total particulate, not otherwise regulated) 15 mg/m ³ (respirable particulate, not otherwise regulated) 5 mg/m ³ | (nuisance particulates) 10 mg/m ³ (inhalable) 5 mg/m ³ (respirable) | | | |

Health Hazards (Sawing or grinding may result in release of dust particles which may present the following hazards.)

Section III—Physical/Chemical Characteristics

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|--------------------------------------|-----|---|-----|
| Boiling Point | N/A | Specific Gravity (H ₂ O = 1) | N/A |
| Vapor Pressure (mm Hg) | N/A | Melting Point | N/A |
| Vapor Density (AIR = 1) | N/A | Evaporation Rate (Butyl Acetate = 1) | N/A |
| Solubility in Water – Not soluble | | | |
| Appearance and Odor – Odorless solid | | | |

Section IV—Fire and Explosion Hazard Data

| | | | |
|---|------------------------|-----------|-----------|
| Flash Point (Method Used) - N/A | Flammable Limits – N/A | LEL – N/A | UEL – N/A |
| Extinguishing Media - N/A | | | |
| Special Fire Fighting Procedures - None | | | |
| Unusual Fire and Explosion Hazards - None | | | |

Section V—Reactivity Data

| | | | |
|-----------|------------|--|----------------------------|
| Stability | Unstable | | Conditions to Avoid - None |
| | Stable - X | | |

Incompatibility (*Materials to Avoid*) – None known

Hazardous Decomposition or Byproducts – Respirable dust particles may be generated when concrete masonry is sawed or ground.

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|--------------------------|--------------------|--|----------------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid - None |
| | Will Not Occur - X | | |

Section VI—Health Hazard Data

| | | | |
|-------------------|-----------------|----------|---------------|
| Route(s) of Entry | Inhalation? Yes | Skin? No | Ingestion? No |
|-------------------|-----------------|----------|---------------|

Health Hazards (*Acute and Chronic*)

Acute:

Eye Contact: Minor irritation to the eyes or nose.

Inhalation: Dusts may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits.

Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation and blockage.

Chronic:

Inhalation: Chronic exposure to respirable dust in excess of appropriate exposure limits may cause lung disease. Silicosis may result from excessive exposure to respirable silica dust for prolonged periods. Not all individuals with silicosis will exhibit symptoms. Silicosis is progressive and symptoms can appear at any time, even after exposure has ceased. Symptoms may include shortness of breath, coughing, or right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Tobacco smoking may increase the risk of developing lung disorders, including emphysema and lung cancer.

| | | | |
|-----------------|------|------------------|-----------------|
| Carcinogenicity | NTP? | IARC Monographs? | OSHA Regulated? |
|-----------------|------|------------------|-----------------|

Concrete masonry is not listed as a carcinogen by the National Toxicology Program (NTP), OSHA or the International Agency for Research on Cancer (IARC). However, crystalline silica is classified by IARC as a carcinogenic to humans (Group 1). The NTP has characterized respirable silica as "known to be a human carcinogen". Prolonged and repeated breathing of silica may cause lung cancer.

Signs and Symptoms of Exposure – Dust irritation of eyes and/or respiratory system.

Medical Conditions Generally Aggravated by Exposure: Inhaling respirable dust may aggravate existing respiratory system disease(s) and/or dysfunctions such as emphysema or asthma. Exposure may aggravate existing eye conditions.

Emergency and First Aid Procedures:

Eyes: Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

Inhalation: Remove to fresh air. Dust in the throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

Skin: Wash with soap and water. Contact a physician if irritation persists or later develops.

Ingestion: If person is conscious, give large quantity of water and induce vomiting; however, never attempt to make an unconscious person drink or vomit. Get immediate medical attention.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: Material may be released when product is sawed or ground. Released materials may overexpose cleanup personnel to respirable silica and dust. Wetting of released material and/or use of respiratory protective equipment may be necessary. Do not dry

sweep released material.

Waste Disposal Method: Dispose of waste materials only in accordance with applicable federal, state, and local laws and regulations.

Precautions to Be Taken in Handling and Storing: Respirable silica and dust may be generated during sawing or grinding. The personal protection and controls identified in Section VII of the MSDA should be applied as appropriate.

Other Precautions – N/A

Section VII—Control Measures

Respiratory Protection (*Specify Type*): When dust or silica levels exceed or are likely to exceed appropriate exposure limits, follow MSHA or OSHA regulations, as appropriate, for use of NIOSH-approved respiratory protection equipment.

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| Ventilation | Local Exhaust: Adequate to maintain exposures below appropriate exposure limits. | Special – N/A |
| | Mechanical (<i>General</i>): Adequate to maintain exposures below appropriate exposure limits. | Other: Respirable dust and silica levels should be monitored regularly. Dust and silica levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee work stations. |
| Protective Gloves: Should be worn to prevent mechanical injury. | | Eye Protection: Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessive (visible) dust conditions are present or anticipated. Contact lenses should not be worn when working with this product. |

Other Protective Clothing or Equipment: Dust mask and respirator used when grinding or sawing units.

Work/Hygienic Practices: Ordinary personal hygiene.
