

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As Used on Label and List)

Keystone Portland Cements

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

| | |
|--|--|
| Manufacturer's Name | Emergency Telephone Number (215) 837-1881 |
| Address (Number, Street, City, State, and ZIP Code) Keystone Cement Company | Telephone Number for Information (215) 837-1881 |
| Bath, PA 18014 | Date Prepared 3/27/87 |
| | Signature of Preparer (optional) K. L. Wentzel |

Section II — Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|---|----------|-----------|--------------------------|-------------------|
| Portland Cement (CAS #65997-15-1) | N/A | N/A | 5 mg/m ³ | (respirable dust) |
| containing calcium salts as follows: | | | | |
| 3 CaO - SiO ₂ (CAS #12168-85-3) | | | 10 mg/m ³ | (total dust) |
| 2 CaO - SiO ₂ (CAS #10034-77-2) | | | | |
| 3 CaO - Al ₂ O ₃ (CAS #12042-78-3) | | | 30 million particles | |
| 4 CaO - Al ₂ O ₃ -Fe ₂ O ₃ (CAS #12068-35-8) | | | per cubic foot. | |
| CaSO ₄ - 2H ₂ O (CAS #13397-24-5) | | | | |
| Plus traces of CaO, MgO, K ₂ SO ₄ and Na ₂ SO ₄ . | | | | |

Section III — Physical/Chemical Characteristics

| | | | |
|-------------------------|-------------------------|---|------|
| Boiling Point | N/A | Specific Gravity (H ₂ O = 1) | 3.15 |
| 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 | Slight (0.1 - 1.0%) | | |
| Appearance and Odor | Gray Powder - Odorless. | | |

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 | N/A | | | | | | |
| Unusual Fire and Explosion Hazards | None. | | | | | | |

Section V — Reactivity Data

| | | | |
|-----------|----------|-----|---|
| Stability | Unstable | Yes | Conditions to Avoid Reacts with acids. |
| | Stable | | |

Incompatibility (Materials to Avoid) Contact with acids.

Hazardous Decomposition or Byproducts None

| | | | |
|--------------------------|----------------|---|----------------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid N/A |
| | Will Not Occur | X | |

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Avoid Skin? Avoid Ingestion? Avoid

Health Hazards (Acute and Chronic) Under dusty conditions it can cause excessive drying of skin and possible irritation. Eyes and open cuts are particularly vulnerable.

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure Dryness of skin. Burning sensation in eyes.

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures Wash off all lime dust from skin with clean water; then optionally rinse skin with vinegar; apply burn ointment to affected areas. For eyes, flush out immediately with water and see physician.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Normal clean-up procedures.

Waste Disposal Method (1) To neutralize acid wastes. (2) Apply to farmers' fields for beneficial agricultural use. (3) Controlled discharge into sewers with sewage plant's approval (usually beneficial or non-harmful to process).

Precautions to Be Taken in Handling and Storing Keep product dry. Avoid contact with eyes and skin. CAUTION: Prolonged contact with hydrated lime may cause irritation or burns to wet skin. In case of contact with eyes, flush thoroughly with water. Call physician. Keep out of reach of children.

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type) Protective (filter) mask in dusty environments.

| | | | | | |
|-------------------|---|--|---------|----------------|-------------------------------|
| Ventilation | Local Exhaust | N/A | Special | N/A | |
| | Mechanical (General) | Apply adequate ventilation to keep dust conc. below 15 mg/m ³ . | | Other | Vent dust to collector. |
| Protective Gloves | Gauntlet-type work gloves in manual handling. | | | Eye Protection | Tight-fitting safety goggles. |

Other Protective Clothing or Equipment Long sleeve shirt with buttoned collar; long pants extending over work shoes;

Work/Hygienic Practices Wash promptly upon contamination/daily.