

Section 1. Identification

Product Name: Shore-Flex™

Effective Date: 31 May 2015

Manufacturer Name: MAPEI
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Deerfield Beach, FL 33442
Phone: 1-954-246-8888

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Section 2. Hazard(s) Identification

Emergency Overview

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Contact with this material will cause irritation and burns to the skin and eyes. This product may be harmful or fatal if swallowed.

Hazard Statements

DANGER! CORROSIVE. TOXIC. Contact with this material will cause irritation and burns to the skin and eyes. Harmful or toxic if swallowed. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

Potential Health Effects: Eyes

This product is severely irritating to the eyes and may cause eye burns. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Potential Health Effects: Skin

This product is severely irritating to the skin and may cause burns. Prolonged and/or repeated skin contact may result in mild irritation or redness. Mechanical rubbing may increase skin irritation.

Potential Health Effects: Ingestion

This product may be harmful if it is swallowed. Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

This product may cause irritation to the respiratory system. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

None identified.

HMIS Ratings: Health: 3* Fire: 0 Reactivity: 0 Pers. Prot.: Safety glasses, gloves, and N95 respirator is dust exposure exceeds TLV values

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Section 3. Composition / Information on Ingredients

| Ingredients | | |
|--------------------|------------|--|
| Components | CAS # | Exposure Limit |
| Crystalline silica | 14808-60-7 | OSHA PEL (Respirable quartz): 10 mg/m ³ (% silica + 2) ACGIH TLV: 0.025 mg/m ³ (respirable) |
| Portland Cement | 65997-15-1 | OSHA PEL (Respirable): 5 mg/m ³ OSHA PEL (total): 15 mg/m ³ ACGIH TLV (Respirable): 10 mg/m ³ (less than 1% Quartz) |

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothes and launder before re-use.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If having difficulty breathing, give oxygen. Get immediate medical attention.
Ingestion: If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING.

Section 5. Fire Fighting Measures

Flash Point: N/A

Suitable extinguishing agents: For the dried product, use carbon dioxide, dry chemical, or alcohol foam.

Hazardous combustion products: N/A

Protective equipment: N/A

Firefighting instructions: N/A

Section 6. Accidental Release Measures

Measures for environmental protection: Keep spilled products out of sewers, streams, and water systems.

Measures for cleaning / collecting: For dry material, collect by sweeping and scooping. Transfer collected material to a container, being careful to minimize creation of dust. For wet material, scoop material up and transfer to an open container. Allow material to dry before disposal.

Additional Information: See section 13 and section 15 for specific regulatory information concerning this product.

Section 7. Handling and Storage

Handling: Wear appropriate protective equipment when working with this product. Promptly remove dusty clothing, or clothing wet with product mix, and launder before re-using. Wash thoroughly after exposure to product dust, or wet product mixtures. Keep out of reach of children.

Storage: Store in a dry location. Atmospheric temperatures and pressures do not affect the shelf life of this product. However, moisture contamination will render the product useless. Keep product concentrate dry until use.

Section 8. Exposure Controls / Personal Protection

Additional information about design of technical facilities: N/A

Additional Information: The lists valid during the making were used as a basis.

Personal Protective Equipment:

Ventilation: Use local exhaust. General exhaust acceptable if the exposure to materials above is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, and 1910.108.

Respiratory Protection: If personal exposure cannot or may not be controlled below applicable limits by ventilation, wear properly fitted respirator approved by NIOSH/MSHA for protection against materials described above.

Eye Protection: Wear safety glasses to reduce the potential for eye contact.

Skin Protection: Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing.

Section 9. Physical and Chemical Properties

| General Information | |
|--|-------------------|
| <i>Form</i> | Powdered Solid |
| <i>Color</i> | White and/or gray |
| <i>Odor</i> | No distinct odor |
| <i>pH</i> | 12-13 in water |
| Change in condition | |
| <i>Melting Point/Melting Point Range</i> | n/a |
| <i>Boiling Point/Boiling Point Range</i> | n/a |

| | |
|---|-------------------|
| <i>Evaporation Rate</i> | n/a |
| <i>Vapor Density</i> | n/a |
| Specific Gravity | 2.64 |
| Solubility in/Miscibility in water | dispersible |
| Density at 20°C | 21.96 lb/gal |
| VOC | 0 g/l (0.0lb/gal) |

Section 10. Stability and Reactivity

Conditions to be avoided: None known.

Chemical stability: Stable

Materials to be avoided: None known.

Hazardous polymerization: Will not occur.

Dangerous decomposition products: Will not spontaneously occur. Addition of water will produce caustic calcium hydroxide, which can cause chemical burns.

Section 11. Toxicological Information

Acute Toxicity:

Crystalline Silica (quartz, cristobalite): Considered a known human carcinogen by Federal (OSHA) and advising health agencies (IARC, NIOSH, and NTP). Additionally, crystalline silica can cause a lung condition known as silicosis after long term exposure to dusts containing crystalline silica. Exposure of workers to crystalline silica containing dusts is specifically regulated by OSHA. The use of a correctly fitted, NIOSH approved respirator suitable for use against crystalline silica inhalation is essential for minimizing exposure to this danger.

Mineral Dusts: Some items mentioned in Section 8 are considered mineral dusts by OSHA and a correctly fitted, NIOSH approved respirator is required when working with this product.

Portland Cement and Calcium Hydroxide: A single, short term exposure to the dry form of these two items, which are present in this cement concentrate mix, are not likely to cause serious harm. However, exposure of sufficient duration to wet cement can cause serious, potentially irreversible tissue destruction of the skin or eye from caustic chemical burns, including third degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry cement concentrate. Wet cement is caustic and personal protective equipment, and proper work hygiene, must be employed for protection against personal injury.

Primary Irritant effect:

On the skin: Exposure of skin to wet product mix may cause chemical burns. Symptoms of exposure may take several hours to manifest.

On the eye: Exposure of eyes to wet product mix may cause chemical burns and blindness. Exposure to airborne dust can cause immediate or delayed irritation or inflammation.

Through ingestion: May be harmful if ingested.

Through inhalation: Dust generated during handling this product concentrate may cause irritation to the respiratory tract.

Additional toxicological information: N/A

Section 12. Ecological Information

| | |
|--|-----|
| Elimination (persistence and degradability) | N/A |
| Behaviour in environmental systems | N/A |
| Mobility and bioaccumulation potential | N/A |
| General notes | N/A |

Section 13. Disposal Considerations

Product Recommendation: This product must be disposed of in accordance with applicable local, state and federal regulations. Where possible, it is best to use up any excess material.

Uncleaned packaging recommendations: Disposal must be made according to official regulations.

Section 14. Transport Information

| | | |
|-----------------------|-----------|---|
| Land transport | USDOT | Not classified as a dangerous good under transport regulations. |
| Sea transport | IMDG | Not classified as a dangerous good under transport regulations. |
| Air transport | IATA/ICAO | Not classified as a dangerous good under transport regulations. |

Section 15. Regulatory Information

US Federal Regulations

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| CERCLA, section 103 (40CFR302.4) |
| This product contains the following toxic chemicals that require notification of the National Response Center of releases of quantities of hazardous substances equal to or greater than the Reportable Quantities (RQ): No reportable quantities are present. |
| Clean Air Act, section 112 |
| This product contains the following components present at or above the minimum level and listed as Hazardous or Extremely Hazardous Air Pollutants: No reportable quantities are present. |
| SARA, section 302 (40CFR355.30) and section 304 (40CFR355.40) |
| This product contains the following items that require emergency planning based on Threshold Planning Quantities (TPQ) or release reporting based on RQ: No reportable quantities are present. |
| SARA, section 311/312 (40CFR370.21) Hazard classification for this product |
| Fire: No Pressure generating: No Reactivity: No Acute Health: Yes Chronic Health: Yes |
| EPA VOC regulations |
| Theoretical VOC for this product = 0 g/l(0.0lb/gal) |
| TSCA |
| All components of this product are listed, or are exempt from listing on the TSCA inventory. |
| OSHA |
| This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard)20 CFR1910.1200. Unlisted ingredients are not 'hazardous' per OSHA standards. In addition to items listed in Section 11, this product contains the following items that are specifically regulated by OSHA. Exposure limits may be found in section 8. Portland Cement CAS# 65997-15-1 |

State Regulations

| |
|---|
| California Prop65 |
| Warning - The following chemicals are present in this coating product in small amounts. These chemicals are listed by the California EPA as materials known to the State of California to cause cancer, (and/or) birth defects, (and/or) other reproductive harm: Crystalline Silica CAS# 14808-60-7 Portland Cement CAS# 65997-15-1 Calcium Carbonate CAS# 16389-88-1 |

Abbreviations:

| | | | |
|-------|----------------------------------|--------|--|
| CAS # | Chemical Abstract Service Number | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C | Celsius temperature scale | °F | Fahrenheit temperature scale |

**Shoreline Flooring Supplies****Material Safety Data Sheet**

5

| | | | | | |
|--------|--|-----------------|--|-----|-----------------------|
| STEL | Short-term Exposure Limit | Prop. Equipment | Proprietary | PE | Personal Protective |
| OSHA | Occupational Safety & Health | TLV | Threshold Limit Value | TWA | Time Weighted Average |
| NFPA | National Fire Protection Agency | NIOSH | National Institute of Safety & Health | | |
| NTP | National Toxicology Program | WHMIS | Workplace Hazardous Materials Information System | | |
| RCRA | Resource Conservation Recovery Act | IARC | Int. Agency for Research on Cancer | | |
| EC50 | Effective Dose | TSCA | Toxic Substance Control Act | | |
| LD50 | Lethal Dose | LC50 | Lethal Inhalation Concentration | | |
| LEL | Lower explosive limit | CAS | Chemical Abstract Service Number | | |
| NDA | No Data Available | UEP | Upper explosive limit | | |
| NE | None established | ND | Not determined | | |
| ≤ | Less Than or Equal To | NA | Not Applicable | | |
| CNS | Central Nervous System | ≥ | Greater Than or Equal To | | |
| DSL | Canada | CI | China | | |
| EEC | European Economic Commission | ECL | Korean Existing Chemicals List | | |
| EU | European Union | ENCS | Japanese Existing and New Chemical List | | |
| MAK | Germany | MAC | Netherlands | | |
| PICCS | Philippines | MITI | Japan | | |
| UK | United Kingdom | SWISS | Giftliste 1 | | |
| VOC | Volatile organic content | | USA United States | | |
| ACGIH | American Conference of Governmental Industrial Hygienists | | | | |
| SARA | Superfund Amendments and Reauthorization Act | | | | |
| AICS | Australian Inventory of Chemical Substances | | | | |
| IARC | International Agency for Research on Cancer | | | | |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 | | | | |

Section 16. Other Information**Hazardous Material Information (HMIS)****National Fire Protection Association (NFPA)**

| | | | |
|---------------------|---|---|-------------|
| Health | 1 | 1 | Health |
| Fire | 0 | 0 | Fire |
| Reactivity | 0 | 0 | Instability |
| Personal Protection | E | | NA |

Health 4 Deadly 3 Extreme Danger 2 Dangerous 1 Slight hazard 0 No hazard
 Fire 4 < 73 °C 3 < 100 °C 2 < 200 °C 1 >200 °C 0 Will not burn
 Reactivity/Instability 4 – May detonate 3 Explosive 2 Unstable 1 Normally stable 0 Stable

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