

SAFETY DATASHEET

Section 1: Identification

Product Code: FG2801

Product Trade Name: Jewel Stone

Product Class/Intended End Use: Cementitious mixture

Emergency Telephone Numbers: For Health and Spill Emergency: 905-856-0133

Section 2: Hazardous Identification

Classifications: Skin irritant - Category 2
Eye irritation – Category 1
Inhalation – Category 1

Signal Word: Warning

Hazard Statements: Causes skin irritation
Causes eye damage
May cause respiratory irritation

Precautionary Statements:

Keep container tightly closed; store in cool well ventilated area.

Do not handle until all safety precautions have been read and understood. Do not breathe dusts.

Wash hands and exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ protective clothing and eye protection/face protection

Exposure to portland cement may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose.

If on skin: Wash with plenty of water. Caustic burns must be treated promptly by a doctor.

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

If in eyes: Rinse cautiously with water for several minutes.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If swallowed: rinse mouth, DO NOT INDUCE VOMITING but drink plenty of water. Obtain medical attention for discomfort.

Hazard Pictograms:



Section 3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS REG NO.</u>	<u>Weight (%)</u>
Silica Sand	14808-30-7	60-65
Portland Cement	65997-15-1	35-40
Sodium Nitrite	7632-00-0	0.05-0.10



Section 4: First Aid Measures

Inhalation: Move victim to fresh air and keep at rest in a position that is comfortable for breathing. Obtain medical attention if coughing or other symptoms persist.

Eye Contact: Immediately flush eyes cautiously with running water for several minutes. If irritation persists, repeat flushing. Obtain medical attention for abrasions.

Skin Contact: Remove/take off all contaminated clothing. Flush skin with running water and wash affected areas thoroughly with soap and water.

Ingestion: Portland cement is severely irritating to mouth, throat and gastro-intestinal system if swallowed. Rinse mouth with water. DO NOT INDUCE VOMITING. Obtain medical attention immediately.

If symptoms persist, contact a physician or other medical personnel.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions. Use flooding quantities of water as a spray

Unsuitable Extinguishing Media: Use caution when using water. Do not get water inside closed containers; contact with water will generate heat. Water jet may cause spattering of the corrosive solution. Use caution when using CO₂; it may scatter the dry powder.

Special Hazards Arising from the Substance or Mixture: Product is not flammable or combustible. Corrosive; reacts with water releasing heat and forming an alkaline solution. Dusts from this product, when combined with water or sweat, produce a corrosive alkaline solution. The potential exists for static build-up and static discharge when moving cement powders through a plastic, nonconductive, or non-grounded pneumatic conveyance system. Static discharge may result in damage to equipment and injury to workers.

Special Protective Equipment and Precautions for Firefighters: As for any fire, evacuate the area and fight the fire from a safe distance.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear adequate personal protective equipment, including an appropriate respirator. Isolate spill area, preventing entry by unauthorized persons. Do not touch spilled material. Do not breathe dusts.

Environmental precautions:

Avoid releases to the environment and prevent material from entering sewers, natural waterways or storm water management systems.

Methods and material for containment and cleaning up:

Move containers from spill area. Avoid dust generation and prevent wind dispersal. Do not dry sweep or blow with compressed air. Scrape up wet material and place in an appropriate container. Allow material to dry before disposal.



Section 7: Handling and Storage

Precautions for safe handling:

Before handling, it is important that engineering controls are operating, protective equipment requirements and personal hygiene measures are being followed. Do not breathe dusts. Wash hands and exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Prevent eye contact. Wear protective gloves/protective clothing and eye protection/face protection.

Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated area, away from incompatible materials. Keep containers closed. Protect from moisture/humidity. Store in a place accessible by authorized persons only. Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control parameters: No TLV data available.

Appropriate Engineering Controls: Use local exhaust or general ventilation to maintain dust levels below exposure limits in workplaces with poor ventilation and dusty conditions.

Personal Protective Equipment:

Respiratory Protection: NIOSH/MSHA approved respirator.

Eye Protection: Safety glasses with side shields are recommended to prevent eye contact. Wearing contact lenses when using this product under dusty conditions is not recommended.

Hand Protection: Wear chemical protective gloves, suit, and boots to prevent skin exposure.

Section 9: Physical and Chemical Properties

Appearance: Free flowing powder

Odour: Odourless

Odour threshold: Not applicable

pH: Alkaline

Melting point/freezing point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Flammability: Not flammable or combustible

Auto-ignition temperature: Not combustible

Upper/lower flammability or explosive limits: Not applicable

Explosive properties: Not applicable

Oxidising properties: Not applicable

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge: Potential for static build-up and static discharge from powders in plastic, nonconductive or non-grounded pneumatic conveyance systems

Vapour pressure: Not applicable

Vapour density: Not applicable

Relative density: Not applicable

Solubility(ies): Not applicable

Decomposition temperature: Not available



Section 10: Stability and Reactivity

Reactivity: Reacts slowly with water forming hydrated compounds, releasing heat and a strongly alkaline solution.

Chemical Stability: Stable at normal ambient and anticipated storage and handling conditions.

Possibility of Hazardous Reactions: Aqueous solutions are highly alkaline.

Conditions to Avoid: Avoid unintentional contact with water/moisture and with strong acids.

Incompatible Materials: Wet portland cement is alkaline. As such it is incompatible with acids, ammonium salts, and phosphorus.

Hazardous Decomposition Products: In contact with water and moisture, generates corrosive calcium hydroxide. Crystalline silica dissolves in hydrofluoric acid and produces corrosive gas.

Section 11: Toxicological Information

<u>Chemical Name</u>	<u>CAS REG NO.</u>	<u>TLV(mg/m³)</u>	<u>LC₅₀/LD₅₀</u>
Silica Sand	14808-30-7	N/Av	N/Av
Portland Cement	65997-15-1	N/Av	N/Av
Sodium Nitrite	7632-00-0	N/Av	LD ₅₀ (oral, rat)=180mg/kg

Section 12: Ecological Information

Toxicity: No test data on mixture. Contact with water forms an alkaline solution.

Persistence and degradability: No test data on mixture.

Bioaccumulative potential: No test data on mixture.

Mobility in soil: No test data on mixture.

Other adverse effects: None known.

Section 13: Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. This material and its container must be disposed of in a safe manner. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

UN Number: Cement is not covered by international transport regulations (IMDG, UN Model Regulations).

UN Proper Shipping Name: Not applicable

Transport Hazard Class(es): Not applicable

Packing Group: Not applicable

Environmental Hazards: Not available

Special Precautions for User: Not available

Section 15: Regulatory Information

Portland cement is not hazardous under U.S. Department of Transportation (DOT) or Canadian TDG regulations.



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Section 16: Other Information

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