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Nelson Precast
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MATERIAL SAFETY DATA SHEET: Architectural Precast

Section I: Identity

Manufacturer: Nelson Precast Products, LLC 2501 W Lexington St Baltimore, MD 21223-1439 (410) 522-7190	**Common Name:** Architectural Precast Concrete **Revision Date:** 14 August 2014 **Prepared By:** Martin Sherman-Marks
Chemical Name/Family: Does not apply	**Formula:** Mix of aggregates, water, and Portland cement

Section II: Hazardous Ingredients/Identity Information

Ingredients:	% (Mass)	CAS #	PEL	TLV
Marble sand (calcite)	~40%	13397-26-7	15mg/m^3*	10mg/m^3
Marble stone (calcite)	~36%	13397-26-7	15mg/m^3*	10mg/m^3
Portland cement	~17%	65997-15-1	15mg/m^3	10mg/m^3
Water	~7%	7732-18-5	N/A	N/A

* OSHA PEL is 5mg/m^3 for respirable particulates, 15mg/m^3 for total dust.

Section III: Physical/Chemical Characteristics

Boiling Point: N/A	**Melting Point:** N/A	**Specific Gravity:** ~2.39
Vapor Pressure: N/A	**Vapor Density:** N/A	**Evaporation Rate:** N/A
Soluble in Water: No	**Reactivity in Water:** Will not release flammable or toxic gases	

Appearance: Solid, similar in appearance to natural stone. Odorless.

Section IV: Fire and Explosion Hazard Data

Flash Point: Not determined	**Flammable:** No	**Explosive:** No
Fire hazards: None known	**Extinguishing Media:** N/A	**Special Procedures:** None

Section V: Reactivity Data

Stability: Stable	**Hazardous Polymerization:** Will not occur

Incompatibility: Concrete dust is alkaline. Strong acids will cause an exothermic reaction, which may release toxic gases or vapors, depending on the acid.

Decomposition Products: None expected.

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Section VI: Health Hazard Data
Inhalation Hazards: Dust may cause nose, throat, or respiratory irritation if inhaled.
Skin Contact Hazards: Dust may cause temporary mild itching or irritation.
Eye Contact Hazards: Dust may cause mild irritation and reddening, but long-term damage is unlikely.
Chronic Exposure: Dust may exacerbate respiratory or skin conditions, including asthma, dermatitis, etc.
Carcinogenicity: Not listed as a carcinogen by NTP, IARC, or OSHA.
Emergency First Aid Measures:
Inhalation: Remove from exposure. Seek medical attention if irritation continues.
Skin Contact: Wash dust off with soap and water as needed. Seek medical attention if irritation continues.
Eye Contact: Flush with water for 15 minutes. Seek medical attention if irritation continues.
Section VII: Precautions for Safe Handling and Use
Handling: Avoid formation of dust where possible. Avoid getting dust in eyes or on skin. Special precautions are not usually required if material is handled normally.
Respiratory Protection: Not required in normal use. Use a NIOSH-approved dust respirator under circumstances where dust may be generated (e.g. cutting or grinding finished stones).
Skin Protection: Not required in normal use. Use skin protection as needed under circumstances where dust may be generated (e.g. cutting or grinding finished stones).
Eye Protection: Not required in normal use. Wear safety glasses or goggles with side shields under circumstances where dust may be generated or chips may fly off (e.g. cutting or grinding finished stones).
Ventilation: Typical ventilation is adequate for normal use. Dust collection systems may be required under circumstances where dust may be generated (e.g. cutting or grinding finished stones).
Section VIII: Control Measures
Spills/Breakage: Wear safety glasses and gloves at a minimum. If large amounts of dust are present, use a NIOSH-approved dust respirator. Sweep up broken material and place in an appropriate container for disposal. Avoid generating dust during cleanup.
Disposal: Dispose of any waste in accordance with federal, state, and local regulations for non-hazardous concrete waste.