

DESCRIPTION

Barnacle Bones is a non-shrink mortar product that is used in conjunction with Portland Cement and silica or finishing sand. **Barnacle Bones** was designed for the concrete products manufacturer who has ready supplies of sand and Portland Cement, and thus has no need for purchasing patching compounds pre-manufactured. This high strength concrete and masonry patching compound offers sulfate resistance and is stable under wet conditions and elevated temperatures. After initial set, the **Barnacle Bones** mixture may be shaved or shaped to conform to surrounding surface contour.

Barnacle Bones has a high flexural to compressive strength ratios, as well as excellent bonding characteristics produces a mortar of superior patching and splicing capabilities. **Barnacle Bones** assures a concrete repair that is structurally sound and aesthetically pleasing, at the same time accommodating rapid patching and pipe splicing needs. It is ideal for repairing old and new concrete in areas such as pools, manhole tanks, septic tanks, and other underground sewer and water applications. It is also useful in repairing rail structures, curb restoration, traffic areas, and pre-stress and precast concrete.

SPECIAL INFORMATION

Reclose the pail tightly after using part of the **Barnacle Bones**, as the product will absorb moisture from the air, reducing the product's effectiveness.

DIRECTIONS

Thoroughly dry mix one part **Barnacle Bones** with two parts Portland Cement and two parts silica or finishing sand. Add just enough water to give the desired consistency to the mortar. The mortar mix will set hard in about 10 or 15 minutes. Do not mix more than can be used within the set time. A useful spackling compound can be made by mixing **Barnacle Bones** and a quality acrylic latex paint the same color as will be used for painting the surface.

PHYSICAL DATA

Appearance	Powder
Color	Grey
Odor	Low to none
pH (3.1%)	2.0
Initial set	15 - 30 minutes
Cure time	24 hours (approximately)

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **BARNACLE BONE**

WHMIS CODE: D2B, E

Product Use: *Concrete patching mixture.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

HMIS

3	Health
0	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

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ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
PORTLAND CEMENT NUISANCE DUST OSHA(PEL),ACGIH(TLV)= 5mg/m3 (RESPIRABLE) OSHA(PEL),ACGIH(TLV)= 15mg/m3, 10mg/m3 (TOTAL DUST) LD50 (oral rat) NOT AVAILABLE LD50 (dermal) NOT AVAILABLE LC50 NOT AVAILABLE	65997-15-1	1.0 - 5.0	15 mg/m3	10 mg/m3

SECTION 3 – PHYSICAL DATA

Color and Odor: Grey, odorless. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 12.0 @ 3.1% solution.
Physical State: Powder. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** Powder.
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** >10g/100ml. **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None. **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: None known.
Hazardous Combustion Products: Decomposition may produce oxides of carbon.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Strong acids.
Hazardous Decomposition Products: Decomposition may produce oxides of carbon.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation, and ingestion.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder, or lung damage.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Inhaling vapors or mists may cause respiratory discomfort such as breathing problems, burning, coughing, etc. Ingestion may cause gastrointestinal and abdominal discomfort.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Normally not required. However, use a NIOSH/MSHA approved dust respirator if product dust is generated.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Normally not required. Use natural or synthetic rubber gloves for handling.
Eye Protection: Safety goggles or glasses.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F).
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Store at temperatures below 30°C (86°F).

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 11/26/09
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE