

# Material Safety Data Sheet

Number: **DMN0397**

Product Name: **B.O.C. # 2, Radex<sup>®</sup>**

A granular caustic paint stripper and boiling out compound.

Revised: 4/17/09

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## Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Sodium Hydroxide	1310-73-2	> 60%	No

## Section 3 - Hazards Identification

**Emergency Overview:** Dry granules are severely corrosive to eyes and skin and may cause permanent damage quickly. They may penetrate cotton and leather. Solutions are also very corrosive. Dust from the product is corrosive to eyes, nose and lungs. The product or its solutions attack aluminum and similar metals releasing small amounts of hydrogen gas. Contact of the dry product with water generates heat and may cause the water to boil. No more than a few pounds should be allowed into sanitary sewers with a large quantity of water. A white/yellowish/tan granular/powdered solid with little odor.

**Health Hazards:** Corrosive

**Physical Hazards:** Reactive

**Primary Routes of Entry:**  Through Skin  Inhalation  Ingestion

### Potential Health Effects:

**Eyes** - dry product, dust and solutions cause immediate, severe and possibly permanent damage or blindness.

**Skin** - dry product or dust becomes corrosive as soon as it becomes damp from humidity or sweat. Dry product may penetrate deeply into tissues. Solutions are very corrosive even in very small amounts. Considerable damage may be done before pain or irritation is noticed. Severe burns may require skin grafting. Even small amounts of dust landing on the skin will remove hair and cause irritation, especially when skin is moist.

**Swallowing** - causes severe irritation and damage to mucous membranes. It may penetrate to other organs.

**Breathing** - excessive inhalation of dust can cause irritation or serious damage to nose and airways.

## Section 4 - First Aid Measures

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately. If a physician is not immediately available, continue flushing with water. Do not use a chemical antidote.

**Skin Contact:** Immediately brush off any visible granules. Immediately flush the exposed skin with water in the safety shower (or sink for hands only) for at least 15 minutes or until the slippery feel is gone. Remove contaminated clothing while rinsing. Anyone assisting should use caution to avoid harming themselves. Do not allow chemical to splash into eyes. Medical attention should be obtained immediately to be certain that no residue remains that could continue to cause damage. Granules may be brushed off of clothing and it should be determined whether to immediately change clothing or not. Launder contaminated clothing before reuse. Discard contaminated shoes.

**Inhalation:** Move the affected person to fresh air. If irritation persists get medical attention.

**Ingestion:** If the product is swallowed, do NOT induce vomiting. If the affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping the person warm and quiet. Get medical attention immediately.

## Section 5 - Fire-Fighting Measures

**Flash Point:** None (ASTM D-56 closed cup)

**Lower Explosive Limit:** Not Applicable

**Upper Explosive Limit:** Not Applicable

**Extinguishing Media:** Any

**Special Fire Fighting Procedures:** None.

**Unusual Fire And Explosion Hazards:** When heated in a fire a small amount of oxygen may be liberated which could burst a sealed container. Damp material in contact with organic material such as paper, wood, cloth, etc., may cause spontaneous combustion of the organic material.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Sweep up.

## Section 7 - Handling and Storage

Store in a dry area and keep container closed. Keep water out of container. Do not store near acids or flammable liquids.

Addition to water generated heat. Add slowly to cold water only to prevent splattering. Do not put aluminum or magnesium components into the solution. They will dissolve and liberate a flammable hydrogen gas.

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet.

## Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Sodium Hydroxide	1310-73-2	> 60%	2 mg/m <sup>3</sup> (1)	-	2 mg/m <sup>3</sup> (2,3,4)
(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous					

**Ventilation:** None when used as directed.

**Respiratory Protection:** If dust may be inhaled in excess of OSHA limits, a NIOSH approved breathing apparatus or respirator should be used. If minor dust causes irritation, wear a nuisance dust mask while scooping and handling dry product.

**Gloves:** Use rubber or latex gloves. Disposable latex gloves do not provide sufficient protection.

**Eye Protection:** Safety glasses with side shields, chemical splash goggles or a face shield, as needed, depending on the amount of exposure and hazard expected.

**Other Protective Equipment:** An eyewash station and a safety shower meeting ANSI Standards should be located within 10 seconds travel time. Wear impervious clothing, apron and boots depending on the amount of exposure and hazard expected.

## Section 9 - Physical and Chemical Properties

**Boiling Point:** 2,536° F.

**Specific Gravity:** 2.13

**Percent Volatiles:** 0%

**Solubility In Water:** Complete

**Appearance and Odor:** A white to tan granular/powdered solid with little odor.

**Vapor Pressure:** Not Applicable

**Vapor Density:** Not Applicable

**Evaporation Rate:** Not Applicable

**pH:** of 6% w/w solution: 13.5 ± 0.5

## Section 10 - Stability and Reactivity

**Incompatibility:** strong acids such as sulfuric, hydrochloric, nitric, etc., reactive metals such as aluminum and magnesium.

**Hazardous Decomposition Products:** Contact with reactive metals releases small amounts of flammable hydrogen gas. Solution in water releases heat and may boil the water.

## Section 11 - Toxicological Information

**Target Organs:** None.

## Section 12 - Ecological Information

Do not dispose of product in the environment.

## Section 13 - Disposal Considerations

**Waste Disposal Method:** Amounts of a few pounds or less may be rinsed to a sanitary sewer with lots of water. (Product is like drain opener.) Larger amounts should be dissolved in water and neutralized before putting down the drain or disposed of by an approved hazardous waste handler. Call Damon Industries for more information.

## Section 14 - Transport Information

**D.O.T. Hazard Class:** Sodium Hydroxide, Solid, 8, UN 1823, PG II

## Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

## Section 16 - Other Information

**NFPA:** H:3 F:0 I:1 **HMIS® III:** H:3 F:0 P:1 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 12/4/03. Updated D.O.T. and NFPA/HMIS.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.