

Material Safety Data Sheet

Number: **DMN-022**

Product Name: **Boiler-Rite #10**

A very alkaline liquid water treatment compound.

Revised: 9/19/01

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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	30 - 40%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is very corrosive to skin and eyes. Product is non-flammable and water based. Product has a very high pH and more than a gallon of concentrate should not be allowed into sewers without neutralizing. A clear liquid with no odor.

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - causes severe damage and may cause blindness very quickly.

Skin - causes severe damage. Immediate rinsing is imperative. Prolonged contact can cause permanent damage and scarring. Skin grafting may be necessary.

Swallowing - causes gastrointestinal burns and severe damage to mucous membranes.

Breathing - there are no fumes. Inhaling a sprayed mist would be very damaging.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention immediately.

Skin Contact: Immediately flush skin with running water for 15 minutes. As long as the slippery feeling remains the chemical may still be damaging the skin. Remove contaminated clothing and shoes as quickly as possible. Get medical attention if there is any visible change in the skin after rinsing. Contaminated clothing and shoes may not be salvageable and should be disposed of safely since product residue is highly corrosive.

Ingestion: If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give two glasses of water to drink. Treat for shock by keeping the person warm and quiet. Get medical attention at once.

Inhalation: None.

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: May react with active metals such as aluminum and release hydrogen gas.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper safety equipment. Small spills of a gallon or less may be washed to a sanitary sewer with a large amount of water. Larger spills should be diked to prevent spreading and then collected into clean pails or drums.

Section 7 - Handling and Storage

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

Do not store near acids or allow to come in contact with acids. Contact causes immediate boiling and spattering. Addition to water generates heat which may cause boiling and spattering. Add slowly to cold water only. Do not put into aluminum or magnesium containers.

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	30 - 40%	2 mg/m ³ (1)	-	2 mg/m ³ (2,3,4)

This chemical is a solid and does not evaporate into the air.

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: None.

Respiratory Protection: None. If liquid was sprayed into the air, protection would probably be needed.

Protective Gloves: Wear resistant gloves such as neoprene or latex. Do not use disposable latex gloves. Use of a longer glove is better than short wrist-length gloves.

Eye Protection: Safety glasses with good side shields as a minimum. Goggles or a face shield are better if splashing is likely.

Other Protective Equipment: Wear a rubber or plastic apron to protect body and clothing. Do not wear porous cloth or canvas shoes. Work boots are preferred. If handling is extensive, boots and full body protection may be called for. An eye-wash station and safety shower should be located within 10 seconds travel time of the use and mixing areas. See ANSI standard Z358.1-1998 for more information about eye-wash and showers.

Section 9 - Physical and Chemical Properties

Boiling Point: 293° F.

Specific Gravity: 1.43

Percent Volatiles: 65%

Solubility In Water: Complete

Appearance and Odor: A clear liquid with no odor.

Vapor Pressure: Same as water.

Vapor Density: Not Applicable

Evaporation Rate: Same as water.

pH: 14.0 ± 0.5

Section 10 - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

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

Hazardous Decomposition Products: Contact with aluminum and magnesium may release flammable hydrogen gas.

Section 11 - Toxicological Information

None.

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of up to 1 gallon of concentrate in the sanitary sewer with a large amount of water. Some sewage departments may allow you to dispose of larger quantities without neutralizing. Call them for approval. Larger amounts may have to be neutralized to within the pH limits of your waste water treatment system before disposal. Call Damon Industries at 1-800-362-9850 if you need neutralizing instructions.

Section 14 - Transport Information

D.O.T. Hazard Class: Sodium Hydroxide, Solution, 8, UN 1824, P.G. II

Section 15 - Regulatory Information

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

Section 16 - Other Information

NFPA / HMIS Estimates:	Health: 3	Flammability: 0	Reactivity: 2
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0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

Replaces sheet dated 2/9/90. Converted to ANSI format and made warnings in plainer English.

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.