

Material Safety Data Sheet

Number: **DMN-401**

Product Name: **Boiler-Rite™ Cleaner**

An alkaline liquid cleaning compound.

Revised: 3/2/04

Damon Industries, Inc.
Box 2120
Alliance, OH 44601

24 hour Emergency Only phone: 1-800-535-5053
Information phone: 1-800-362-9850 or 330-821-5310
fax: 330-821-6355

Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Potassium Hydroxide	1310-58-3	1 - 2%	No
Sodium Metasilicate	6834-92-0	1 - 2%	No

Section 3 - Hazards Identification

Emergency Overview: Concentrate is corrosive to skin and eyes. The product is non-flammable and water based. It has a very high pH and more than a gallon of concentrate should not be allowed into sewers without neutralizing. A colorless liquid with a slight odor.

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - concentrate causes damage and may cause blindness. Dilutions cause irritation & redness.

Skin - concentrate is irritating and prolonged contact may cause permanent damage and scarring without the user being aware until the damage has been done. Dilutions can cause irritation, redness or dermatitis.

Swallowing - may result in damage to mucous membranes.

Breathing - excessive inhalation of vapors may cause irritation.

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 irritation or visible change in the skin after rinsing. Launder contaminated clothing before wearing again. Shoes may not be salvageable.

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

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: None.

Section 6 - Accidental Release Measures

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

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>
Potassium Hydroxide	1310-58-3	1 - 2%	2 mg/m ³ (2)	-	2 mg/m ³ (3,4)
Sodium Metasilicate	6834-92-0	1 - 2%	No limits have been set.		

These chemicals are solids and do not evaporate into the air. The limits refers to airborne dust only.

(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 under the expected use conditions.

Protective Gloves: Wear resistant gloves such as neoprene or latex. Do not use disposable latex gloves.

Eye Protection: Safety glasses with side shields.

Other Protective Equipment: Wear a rubber or plastic apron to protect body and clothing when handling the concentrate. Do not wear porous cloth or canvas shoes. 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 requirements.

Section 9 - Physical and Chemical Properties

Boiling Point: 215° F.

Specific Gravity: 1.15

Percent Volatiles: 80%

Solubility In Water: Complete

Appearance and Odor: A colorless liquid with a slight odor.

Vapor Pressure: Same as water.

Vapor Density: Not Applicable

Evaporation Rate: Same as water.

pH: 13.5 ± 0.5

Section 10 - Stability and Reactivity

Stability: Stable

Incompatibility: None.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

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 a 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: Not considered hazardous by D.O.T., I.M.O., I.A.T.A. or U.N.

Section 15 - Regulatory Information

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

Section 16 - Other Information

NFPA: H:2 F:0 I:0 **HMIS® III:** H:3 F:0 P:0 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.

There was no previous sheet.

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.