

Material Safety Data Sheet

Number: **DMN0034**

Product Name: **Boiler-Rite™ #70**

A liquid water treatment.

Revised: 3/29/10

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24 hour **Emergency Only** phone: 1-800-535-5053
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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>
Cyclohexylamine	108-91-8	10 - 30%	No

Section 3 - Hazards Identification

Emergency Overview: The concentrate is very irritating, possibly damaging to the eyes and irritating to the skin. Diluted solutions may be irritating. Excessive inhalation of vapors may cause irritation. The product is water based and will not burn, however flammable vapors may collect in the air-space in drums to within flammable limits. Product presents little hazard in a fire. A colorless liquid with a pungent amine (ammonia-like) odor.

Health Hazards: Eye and Skin Irritant

Physical Hazards: None

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - concentrate is very irritating and may cause permanent damage with prolonged contact. Dilutions cause irritation and redness. Excessive exposure to vapors may be irritating to the eyes.

Skin - contact with the concentrate or prolonged contact with dilutions causes skin irritation.

Swallowing - results in irritation of mucous membranes and the gastrointestinal tract and may cause vomiting, diarrhea, sweating, weakness or headache.

Breathing - excessive inhalation of vapors causes irritation of the nose and throat.

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.

Skin Contact: Wash the exposed skin with soap and water. If a large part of the body is drenched, remove clothing and flush the skin with water immediately. If irritation or redness develops, get medical attention.

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. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: > 100° F. (ASTM D-56 closed cup). There is no open cup flash point. The product itself will not burn or support combustion. Cyclohexylamine vapors may collect in the air space in drums or tanks to within flammable limits. These vapors are combustible with sparks or flame at or above the flash point temperature. This does not apply to gallon jugs or five gallon pails.

Lower Explosive Limit: Not Available

Upper Explosive Limit: Not Available

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: Wear appropriate protective equipment such as gloves and safety glasses. Small spills of up to one gallon may be cleaned up with a rag or mop. Larger spills should be diked to prevent spreading and then absorbed with absorbent material and then disposed of appropriately. Contact Damon Industries for disposal assistance.

Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous.

Do not weld or cut on or around drums or totes. Vapors in the air-space may be flammable.

Keep a cover on the chemical mixing tank if one is used.

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>
Cyclohexylamine	108-91-8	10 - 30%	10 ppm(2,3,4)	20 ppm(4)	-

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

Ventilation: Normal room ventilation.

Respiratory Protection: It is not expected that airborne limits will be exceeded when used as directed.

Gloves: When changing containers, handling open containers or cleaning up spills wear resistant gloves such as neoprene or latex. Do not use disposable latex gloves.

Eye Protection: When changing containers, handling open containers or cleaning up spills wear safety glasses with side shields.

Other Protective Equipment: None.

Section 9 - Physical and Chemical Properties

Boiling Point: 212° F.

Specific Gravity: 0.987

Percent Volatiles: 100%

Solubility In Water: Complete

Appearance and Odor: A colorless liquid with a pungent amine (ammonia-like) odor.

Vapor Pressure: Not Available

Vapor Density: Not Available

Evaporation Rate: Less than water.

pH: concentrate 12.3 ± 0.5

Section 10 - Stability and Reactivity

Incompatibility: None

Hazardous Decomposition Products: None

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

Do not dispose of unusable product 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. Larger amounts should be disposed of in an approved manner. Contact Damon for specific information.

Section 14 - Transport Information

D.O.T. Hazard Class: Not considered hazardous by D.O.T., I.M.C.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:1 F:0 I:0 **HMIS® III:** H:1 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.

This sheet replaces one dated 2/15/88.

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.