

# Material Safety Data Sheet

Number: **DMN0057**

Product Name: **Cool-Rite™ #85**

Water treatment containing inorganic acid.

Revised: 7/29/11

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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>
Sulfuric acid	7664-93-9	10 - 30%	No

## Section 3 - Hazards Identification

**Emergency Overview:** Liquid is highly irritating or corrosive to all body parts, especially eyes. Product is water based and does not burn. Contact with reactive metals will form hydrogen gas. Product has a low pH and more than 1 gallon should not be allowed into sanitary sewers at one time without neutralizing. Will release chlorine gas if mixed with bleach and bromine vapors if mixed with bromides. A pale yellow liquid with an acidic odor.

**Health Hazards:** Corrosive

**Physical Hazards:** Reactive

**Primary Routes of Entry:**  X  Skin contact; \_\_\_ Skin absorption; \_\_\_ Inhalation;  X  Ingestion

### Potential Health Effects:

**Eyes** - causes severe damage and may cause blindness very rapidly.

**Skin** - concentrate causes severe irritation which may become serious burns with permanent damage if not rinsed off quickly. Prompt flushing with water leaves only minor effects.

**Swallowing** - causes severe irritation and damage to mucous membranes.

**Breathing** - None.

## 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:** Flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes. If redness, irritation or other symptoms exist after flushing, get medical attention immediately. Wash clothing before wearing again. Throw away contaminated shoes.

**Inhalation:** None.

**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 except carbonate dry powder due to reactivity.

**Special Fire Fighting Procedures:** None.

**Unusual Fire And Explosion Hazards:** Contact with reactive metals will form hydrogen gas. High heat may release some sulfur trioxide or sulfur dioxide fumes.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Use adequate personal protective equipment. Spills of 1 gallon or less can be washed to the sanitary sewer with plenty of water. For larger spills, dike to prevent entry into sewers and spread soda ash (sodium carbonate) over the spill to neutralize and absorb. Collect material into clean pails or drums. Wash residue to a sanitary sewer with a large quantity of water. Wash the area with an alkaline detergent or a 25% solution of baking soda or soda ash.

## Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet and on label. Keep container closed. Remove leaking containers.

**Bleach Warning:** If this product contacts bleach or a cleaner containing bleach, or a chlorine or bromine based biocide, it could produce a dangerous gas or vapors. If your facility uses such products, employees should be trained to not mix them.

### 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>
Sulfuric acid	7664-93-9	10 - 30%	1 mg/m <sup>3</sup> (1,2,3,4)	3 mg/m <sup>3</sup> (3,4)	-

These airborne limits are for concentrate mist, not vapors, and are therefore unlikely.

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

**Ventilation:** Normal ventilation.

**Respiratory Protection:** None.

**Protective Gloves:** Use rubber, latex or PVC gloves. Do not use disposable latex gloves. Disposable Nitrile gloves are good.

**Eye Protection:** Wear safety glasses with side shields or chemical goggles or face shield depending on the amount of exposure anticipated.

**Other Protective Equipment:** If splashing is likely to occur wear an apron, protective clothing or boots as the situation calls for. Normally, changing the feed tubing requires eye and hand protection and possibly an apron. Assess your needs based on anticipated use. An eyewash station and safety shower should be located within 10 seconds travel time.

### Section 9 - Physical and Chemical Properties

**Boiling Point:** 220° F.

**Specific Gravity:** 1.11

**Percent Volatiles:** 70%

**Solubility In Water:** Complete

**Appearance and Odor:** A pale yellow liquid with an acidic odor.

**Vapor Pressure:** Not Available

**Vapor Density:** Not Available

**Evaporation Rate:** < 1 (Water = 1)

**pH:** concentrate 1.0 ± 0.5

### Section 10 - Stability and Reactivity

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals.

**Hazardous Decomposition Products:** None

### Section 11 - Toxicological Information

**Target Organs:** 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. Larger amounts may be sewerable after being neutralized to within the pH limits of your waste water treatment system. Soda ash absorbent may also be allowed after dissolving in water and checking pH. Call your waste water department first. Call Damon Industries at 1-800-362-9850 if you need assistance.

### Section 14 - Transport Information

**D.O.T. Hazard Class:** UN 1760, Sulfuric Acid, 8, P.G. II

### Section 15 - Regulatory Information

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

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
Sulfuric Acid	7664-93-9	21	2.0

Sulfuric acid in cooling tower bleed and over-spray will be extremely small (500 to 2,000 ppm depending on cycles of concentration) but will be mostly neutralized and only exist as sulfate ions.

### Section 16 - Other Information

**NFPA:** H:3 F:0 I:0 **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 1/31/88. Converted to ANSI format.

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.