

Material Safety Data Sheet

Number: **DMN0119**

Product Name: **Min-Rid**

An acid lime & scale remover.

Revised: 9/22/05

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>
Phosphoric Acid	7664-38-2	20 - 40%	No
Hydroxyacetic Acid	79-14-1	10 - 20%	No

Section 3 - Hazards Identification

Emergency Overview: Concentrate can cause damage to the eyes and is irritating to the skin. Prolonged skin contact with concentrate could cause skin damage. Solutions are irritating to eyes and skin. Excessive inhalation of vapors may cause irritation. Product is water based and does not burn. Contact with reactive metals will form small amounts of hydrogen gas. Product has a low pH and more than 4 gallons should not be allowed into sanitary sewers without neutralizing. A very light brown liquid with vinegar odor.

Health Hazards: Corrosive, Irritant

Physical Hazards: None

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - Concentrate causes severe irritation and moderate damage. Dilutions cause moderate to severe irritation.

Skin - Concentrate causes irritation and redness; possibly damage with prolonged contact. Brief contact has little or no effect when rinsed off promptly. Dilutions cause irritation and redness.

Swallowing - causes irritation and burns to mucous membranes.

Breathing - excessive inhalation of vapors or inhalation of sprayer mist may cause irritation of the nose, throat and respiratory passages.

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: Remove contaminated clothing and shoes immediately. If there is no redness or irritation wash with soap and water. If there is redness or irritation flush skin with running water for 15 minutes. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

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

Ingestion: If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping 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: Contact with reactive metals will form hydrogen gas.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Clean up small spills with a rag or mop. Wash the area with an alkaline detergent or a 50% solution of baking soda. Spills of 4 gallons or less can be washed to a sanitary sewer with plenty 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 and on label. Keep container closed. Store in a cool, well ventilated area. Remove leaking containers.

If this product contacts bleach or a cleaner containing bleach, it could produce a dangerous gas (chlorine). If your facility uses bleach, or a cleaner containing bleach, look at the MSDS on the bleach product now, to learn what to

do if chlorine is accidentally produced. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan. Contact Damon Industries if more information is needed.

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>
Phosphoric Acid	7664-38-2	20 - 40%	1mg/m ³ (1,3)	3mg/m ³ (1,3)	-
Hydroxyacetic Acid	79-14-1	10 - 20%	10mg/m ³ (DuPont)	-	-

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

Ventilation: Good room ventilation.

Respiratory Protection: None when used as directed. If product is sprayed wear a NIOSH approved respirator with an acid cartridge.

Protective Gloves: Wear rubber or latex gloves.

Eye Protection: Wear safety glasses with side shields.

Other Protective Equipment: An eye wash station should be located within 10 seconds travel time from where the concentrate is mixed or used.

Section 9 - Physical and Chemical Properties

Boiling Point: 220° F.

Specific Gravity: 1.25

Percent Volatiles: 70%

Solubility In Water: Complete

Appearance and Odor: A very light brown liquid with vinegar odor.

Vapor Pressure: Not Available

Vapor Density: Not Available

Evaporation Rate: Less than water.

pH: concentrate 0.5 ± 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 4 gallons 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: Consumer Commodity ORM-D.

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:2 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.

Replaces sheet dated 10/25/01. Changed D.O.T. Hazard Class to ORM-D.

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.