



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 1119  
Effective Date March 4, 1998

## SECTION V HEALTH HAZARD DATA

SS 1119

### Threshold Limited Value

TWA: 1 mg/m<sup>3</sup> STEL: 3 mg/m<sup>3</sup> (ACGIH 1992-93).

### Effects of Overexposure

May be harmful if swallowed. Contact may cause irritation and/or burns to skin, eyes and mucous membranes. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**SKIN:** Flush with water for 15 minutes, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give large quantities of water to drink. DO NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get prompt medical attention. **INHALATION AS MIST:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid |
|-----------|----------|---------------------|
|           | Stable   |                     |

X

Excessive temperature and heat.

| Incompatibility (Materials to Avoid) | Attacks many metals, bases. Reacts with alkalies and organic materials. |
|--------------------------------------|---|
|--------------------------------------|---|

| Hazardous Decomposition Products | When heated to decomposition, may release sulfur dioxide fumes. Toxic and explosive hydrogen sulfide and/or sulfur trioxide may be formed under certain conditions. |
|----------------------------------|---|
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| Hazardous Polymerization |                | Conditions to Avoid |
|--------------------------|----------------|---------------------|
| May Occur                | Will Not Occur | Not applicable.     |
|                          | X              |                     |

## SECTION VII SPILL OR LEAK PROCEDURES

| Steps to be taken in case material is released or spilled | Wearing protective clothing, neutralize the spill with sodium bicarbonate (soda ash) and flush to sewer with copious amounts of water. |
|---|--|
|---|--|

| Waste Disposal Method | Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. |
|-----------------------|--|
|-----------------------|--|

Dispose of in accordance with federal, state and local regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If misty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA approved dust mask or respirator. |
|---------------------------------------|---|
|---------------------------------------|---|

| Ventilation | Local Exhaust        | Recommended. | Special | No. |
|-------------|----------------------|--------------|---------|-----|
|             | Mechanical (General) | Recommended. | Other   | No. |

| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
|-------------------|---------|----------------|--------------------------|
|-------------------|---------|----------------|--------------------------|

| Other Protective Equipment | Goggles, smock, apron, eye wash station, proper gloves. |
|----------------------------|---|
|----------------------------|---|

## SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool place.<br>Wash thoroughly after handling. |
|---|---|
|---|---|

| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. |
|-------------------|---|
|-------------------|---|

Avoid contact with skin, eyes and mucous membranes.  
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

| Revision | No. 3 | Date | 3/04/98 | Approved | Michael Raszeja | Chemical Safety Coordinator | MR |
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| Product           | SULFURIC ACID, AQUEOUS SOLUTION |
|-------------------|---------------------------------|
| Chemical Synonyms | (0.01 Molar) (0.02 Normal)      |
| Formula           | Mixture.                        |
| Unit Size         | up to 4 Lt.                     |
| C.A.S. No.        | Mixture.                        |

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

| Health     | 2 |
|------------|---|
| Fire       | 0 |
| Reactivity | 1 |

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)                      | %      | TLV Units         |
|---|--------|-------------------|
| Sulfuric Acid: (CAS No. 7664-93-9)          | 0.05%  | See Section V.    |
| Water: (CAS No. 7732-18-5)                  | 99.95% | None established. |
| <b>WARNING! CORROSIVE! MAY CAUSE BURNS.</b> |        |                   |
| <b>HARMFUL IF SWALLOWED.</b>                |        |                   |

## SECTION III PHYSICAL DATA

|                        |                                  |   |                 |
|------------------------|----------------------------------|---|-----------------|
| Melting Point (°F)     | Approx. 0°C (32°F)               | Specific Gravity (H <sub>2</sub> O = 1) | 1.0 at 20°C     |
| Boiling Point (°F)     | Approximately 100°C (212°F)      | Percent Volatile by Volume (%)          | 99.95%          |
| Vapor Pressure (mm Hg) | 14 (water)                       | Evaporation Rate (Ether = 1)            | Greater than 1. |
| Vapor Density (Air=1)  | 0.7 (water)                      |   |                 |
| Solubility in Water    | Complete.                        |   |                 |
| Appearance & Odor      | Clear colorless liquid; no odor. |   |                 |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point (Method Used) | Non-flammable.                                   | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
|---------------------------|--|-------------------------------------|-----|-------|-------|
| Extinguisher Media        | If involved in a fire situation use water spray. |                                     |     |       |       |

### SPECIAL FIREFIGHTING PROCEDURES

This solution is very dilute. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing and eye protection.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7 GUIDE PAGE NO. 157)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Attacks many metals, releasing hydrogen. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with alkali materials.

D.O.T. SULFURIC ACID, 8, UN 2796, PG II

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20