



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 805  
Effective Date November 18, 1998

## SECTION V HEALTH HAZARD DATA

SS 805

### Threshold Limited Value

TLV: 2 mg/m<sup>3</sup> (ACGIH 1992-93). RTECS No. VV9275000 Toxicity data:  
Orl-rat LD50 800 mg/kg. Irritation data: Skn-hmn 250 mg/24H Sev.

### Effects of Overexposure

**DANGER!** May cause burns to skin, eyes and mucous membranes. Will cause eye damage if not treated. May cause burns to respiratory and digestive tract. Overexposure may result in lung tissue damage. If swallowed, causes vomiting, diarrhea, severe irritation and tissue damage to mucous membranes of the mouth, throat, esophagus and stomach.

### Emergency and First Aid Procedures

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

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Exposure to acids and acid fumes and halides.
	Stable	X	

Incompatibility (Materials to Avoid)	Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. Decomposed by acids.
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Hazardous Decomposition Products	Silicic acid, silica dust. Thermal decomposition may produce toxic and/or hazardous gases. Oxides of sodium.
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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	Avoid raising dust. Recover for use if not contaminated. With adequate ventilation, sweep up and place in a suitable container for proper disposal. Flush spill area with water.
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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.
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Uncontaminated material may be disposed of in a sanitary landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None required in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or use an approved NIOSH Type D 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, proper gloves, ventilation hood, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from acids. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes and mucous membranes. Do not breathe dusts. Use adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 5	Date 11/18/98	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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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	SODIUM METASILICATE, PENTAHYDRATE
Chemical Synonyms	Disodium Trioxosilicate, Pentahydrate
Formula	Na <sub>2</sub> SiO <sub>3</sub> •5H <sub>2</sub> O
Unit Size	up to 2.5 Kg.
C.A.S. No.	10213-79-3

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

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

Health	3
Fire	0
Reactivity	1

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Metasilicate, Pentahydrate	100%	None established.
DANGER! CORROSIVE! MAY CAUSE BURNS.		
HARMFUL IF SWALLOWED.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	72.2°C (161.9°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.81
Boiling Point (°F)	110°C Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( )	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Complete.		
Appearance & Odor	Fine, white, moist crystals, granules or beads; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Natural fire retardant.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

May produce hazardous irritating gas. May produce toxic fumes of oxides of sodium.

D.O.T. DISODIUM TRIOXOSILICATE, PENTAHYDRATE, 8, UN 3253, PG III

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