



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. SS 820
Effective Date May 5, 1999

SECTION V HEALTH HAZARD DATA

SS 820

Threshold Limited Value None established by (ACGIH 1992-93).
Acute Orl-rat LD50 2000-3000 mg/kg.

Effects of Overexposure
EYES: Contact causes severe irritation and possible corneal damage if not treated.
SKIN: Contact causes severe irritation. **INGESTION:** May cause severe irritation and possible tissue destruction to mucous membranes of the mouth, esophagus and stomach. **INHALATION:** Exposure to mist or spray may cause coughing, sneezing, upper respiratory tract irritation. Severe exposure may result in lung tissue damage.

Emergency and First Aid Procedures
SKIN: Flush with water, then wash with mild soap and water. If irritation occurs, get medical attention. **EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.
INGESTION: If swallowed, do NOT induce vomiting. If conscious, give large quantities of water or milk to drink. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If discomfort or illness develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability
Unstable
Stable X
Conditions to Avoid Excessive temperature and heat.

Incompatibility (Materials to Avoid) Acids and acid fumes.

Hazardous Decomposition Products Contact with acids will cause gelling of the silicate and the evolution of some heat.

Hazardous Polymerization
May Occur Will Not Occur X
Conditions to Avoid Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Wearing suitable protective clothing, absorb in vermiculite, sand, earth. Scoop up in a suitable container. Wash spill area well with soap and water. Spill area may become dangerously slippery. Prevent discharge to sewers and streams.

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 an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

| | | | | |
|--------------------|----------------------|--------------|---------|-----|
| Ventilation | Local Exhaust | Recommended. | Special | No. |
| | Mechanical (General) | None needed. | Other | No. |

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Smock, apron, proper gloves, chemical safety goggles, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place but above freezing and away from acids and acid fumes. Wash thoroughly after handling.
Keep container tightly closed when not in use.

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

Avoid breathing mist or spray. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

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

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|----------------|-------------|--------------------------|--------------------------------|
| Revision No. 4 | Date 5/5/99 | 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 | SODIUM SILICATE, SOLUTION | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4 | Health | 2 |
| Chemical Synonyms | Water Glass, Liquid sodium silicate | | Fire | 0 |
| Formula | Na ₂ O·xSiO ₂ (X = approx. 3.22 by weight) | | Reactivity | 0 |
| Unit Size | up to 3.785 Lt. | | | |
| C.A.S. No. | Mixture. | | | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|--|--------|-------------------|
| Silicic acid, sodium salt: (CAS No. 1344-09-8) | 60-64% | None established. |
| Water: (CAS No. 7732-18-5) | 36-40% | |

WARNING! CAUSES IRRITATION TO SKIN,

EYES AND RESPIRATORY TRACT.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---|-----------------|
| Melting Point (°F) | Freezes -1°C (30°F) | Specific Gravity (H ₂ O = 1) | 1.40 at 20°C |
| Boiling Point (°F) | 101°-102°C (214°-216°F) | Percent Volatile by Volume (%) | Not applicable. |
| Vapor Pressure (mm Hg) | Not applicable. | Evaporation Rate (=1) | Not applicable. |
| Vapor Density (Air=1) | Not applicable. | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | Colorless, turbid liquid; none to slightly soapy odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|----------------------------------|---------------------|--|----|-------|-------|
| Flash Point (Method Used) | Not flammable (NA). | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| | | | | ----- | ----- |

Extinguisher Media Use water spray, dry chemical, carbon dioxide or foam.

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Product is non-combustible.
No known hazard.

D.O.T. NON-REGULATED.

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