



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. SS 90
Effective Date April 24, 1999

SECTION V HEALTH HAZARD DATA

SS 90

Threshold Limited Value (ACGIH 1992-93). TLV TWA: 0.1 mg/m³ (respirable dust) crystalline quartz.

Effects of Overexposure
Prolonged inhalation of the dust can cause fibrosis of the lungs (silicosis) which may lead to pulmonary hypertension, breathlessness, wheezing, cough and sputum production.

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. If illness or discomfort develops, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention.

SECTION VI REACTIVITY DATA

| | | | | |
|------------------|-----------------|---|----------------------------|--------------------------|
| Stability | Unstable | | Conditions to Avoid | None specifically known. |
| | Stable | X | | |

Incompatibility (Materials to Avoid) Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fires.

Hazardous Decomposition Products Will dissolve in Hydrofluoric acid and produce a corrosive gas- Silicon tetrafluoride.

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Avoid creating dusty conditions. Sweep up and recycle or place in a suitable container for proper disposal.

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.
Uncontaminated material may be disposed of in a sanitary landfill. Check local codes.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be required for normal laboratory use. If dusty conditions prevail, use a NIOSH/MSHA approved respirator.

| | | | | |
|--------------------|-----------------------------|----------------|----------------|-----|
| Ventilation | Local Exhaust | Yes, if dusty. | Special | No. |
| | Mechanical (General) | No. | Other | No. |

| | | | |
|--------------------------|-----|-----------------------|--------------------------|
| Protective Gloves | No. | Eye Protection | Chemical safety glasses. |
|--------------------------|-----|-----------------------|--------------------------|

Other Protective Equipment Goggles, lab coat, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
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 inhalation of dust.
Remove and wash contaminated clothing.

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

| | | | |
|-----------------------|---------------------|---------------------------------|---------------------------------------|
| Revision No. 6 | Date 4/24/99 | 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 | SAND | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * | Health | 0 |
| Chemical Synonyms | Silicon Dioxide; Silica | | Fire | 0 |
| Formula | SiO ₂ | | Reactivity | 0 |
| Unit Size | Up to 12 Kg. | | | |
| C.A.S. No. | 14808-60-7 | | | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|-----------------------------------|------|----------------|
| Sand - Ottawa, Sea; White, Yellow | 100% | See Section V. |
| Aquarium; Fine, Coarse | | |

LOW HEALTH HAZARD FOR USUAL LABORATORY HANDLING.

SECTION III PHYSICAL DATA

| | | | |
|-------------------------------|---|--|-----------------|
| Melting Point (°F) | 1710°C (3110°F) | Specific Gravity (H₂O = 1) | 2.2-2.6 at 20°C |
| Boiling Point (°F) | 2230°C (4046°F) | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | N/A | Evaporation Rate (=1) | N/A |
| Vapor Density (Air=1) | Data not listed. | | |
| Solubility in Water | Insoluble. | | |
| Appearance & Odor | White, yellow, tan crystals or granules; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES
None required. Will not burn or support fire. Used in extinguishing fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None known.

D.O.T. NON-REGULATED.

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