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EM SCIENCE

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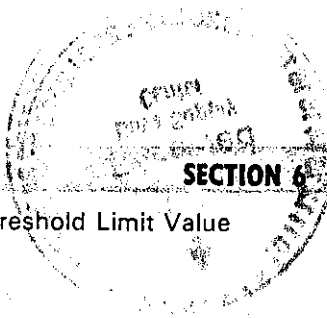


# MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar to Form OSHA-20")

| SECTION 1   |   | NAME & PRODUCT  |           |
|---|---|---|-----------|
| Chemical Name:<br>Sand  | Catalog Number:<br>SX0070, SX0075, SX0076, SX0078 |   |           |
| Trade Name & Synonyms:<br>Silicon Dioxide   | Chemical Family:<br>Inorganic Oxide               |   |           |
| Formula:<br>SiO <sub>2</sub>  | Formula Weight:                                   |   |           |
| SECTION 2   |   | PHYSICAL DATA   |           |
| Boiling Point, 760 mm Hg (°C)   | --  | Specific Gravity (H <sub>2</sub> O = 1)   | 2.2       |
| Melting Point (°C)  | --  | Solubility in H <sub>2</sub> O, % by wt. at 20°C                                    | Insoluble |
| Vapor Pressure at 20°C  | --  | Appearance and Odor   | granules  |
| Vapor Density (air = 1)   | --  |   | odorless  |
| Percent Volatiles by Volume   | --  | Evaporation Rate (Butyl Acetate = 1)  |           |
| SECTION 3   |   | FIRE AND EXPLOSION HAZARD DATA  |           |
| Flash Point (test method)   | nonflammable                                      | Flammable Limits  | Lel Uel   |
| Extinguishing Media   | ---   |   |           |
| Special Hazards and Procedures  | ---   |   |           |
| Unusual Fire and Explosion Hazards  | ---   |   |           |
| SECTION 4   |   | REACTIVITY DATA   |           |
| Stable  | X   | Conditions to Avoid   |           |
| Unstable  |   |   |           |
| Materials to Avoid<br>( ) Water ( ) Acids ( ) Bases ( ) Corrosives ( ) Oxidizers<br>( ) Other (specify) |   |   |           |
| Hazardous Decomposition Products  |   |   |           |
| SECTION 5   |   | SPILL OR LEAK PROCEDURES AND DISPOSAL   |           |
| Steps to be Taken in Case Material is Released or Spilled Sweep up and containerize                     |   |   |           |
| Waste Disposal Method   |   | To be performed in compliance with all current local, state and federal regulations |           |

We believe the data contained herein is factual, however, it is offered solely for your consideration, investigation, and verification. Do not take as a warranty.



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**SECTION 6**

**HEALTH HAZARD DATA**

Threshold Limit Value

0.1 mg/m<sup>3</sup>

Effects of Overexposure

Prolonged inhalation of dust can cause fibrosis of the lung

First Aid Procedures

Wash from skin with soap and water.

Rinse from eyes with water.

Consult medical assistance if ingested.

**SECTION 7**

**SPECIAL PROTECTION INFORMATION**

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection

Protect eyes with safety goggles.

Provide adequate ventilation.

**SECTION 8**

**SPECIAL HANDLING AND STORING PRECAUTIONS**

none

DOT - Not Regulated

**SECTION 9**

**HAZARDOUS INGREDIENTS**

(refer to section 3 through 8)

**SECTION 10**

**OTHER INFORMATION**

EMERGENCY PHONE NUMBER (513) 631-0445

AUTHORIZED SIGNATURE

*[Signature]*

DATE ISSUED:

3/87

DATE REVISED: