

# MATERIAL SAFETY DATA SHEET

## Section 1: Product/Company Information

**Identity:** Airport Runway Sand

**Mfg. Name:** Powder Technology Inc.  
14331 Ewing Avenue S.  
Burnsville, MN 55306

**Emergency Number:** (952) 894-8737  
**Number for Info:** (952) 894-8737  
**Date Updated:** 16 November 2007

## Section 2: Emergency and First Aid

**Eyes:** Immediately flush eye thoroughly with water. Get medical attention if irritation persists.

**Skin:** N/A

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside.

**Ingestion:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician if discomfort is experienced.

## Section 3: Composition Information

### Typical chemical composition:

Chemical	CAS Number	Percent of Weight
SiO <sub>2</sub>	14808-60-7	68-76%
Al <sub>2</sub> O <sub>3</sub>	1344-28-1	10-15%
Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	2-5%
Na <sub>2</sub> O	1313-59-3	2-4%
CaO	1305-78-8	2-5%
MgO	1309-48-4	1-2%
TiO <sub>2</sub>	13463-67-7	0.5-1.0%
K <sub>2</sub> O	12136-45-7	2-5%

Loss on Ignition 2 - 5 %

All components of this material are included on the TSCA Inventory.

#### Section 4: Hazardous Ingredients/Identity Information

This product contains free silica. Inhalation of dust may be harmful to your health. ACGIH (Recommended):  $20 \times 10^6$  particles/cubic foot.

**H.M.I.S. ratings:** Health – \*                      Flammability – 0                      Reactivity - 0

\* see Section 5 of this MSDS for further information on health effects

#### Section 5: Hazard Identification

**Potential Health Effects:** Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

**Eye Contact:** (Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea.

**Inhalation:**(Chronic) Inhalation exposure to free silica may cause delayed lung injury, including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

**Carcinogenic Potential:** This product contains free silica, which IARC classifies as a known human carcinogen. The NTP, in its Ninth Annual Report on Carcinogens, classified “silica, crystalline (respirable)” as a known carcinogen.

#### Section 6: Accidental Release Measures

Use clean-up methods that do not disperse dust into the air. Avoid inhalation of dust and contact with eyes. Use exposure control and personal protection methods as described in Section 12.

#### Section 7: Physical/Chemical Data

<b>Boiling Point:</b>	4040 <sup>0</sup> F
<b>Specific Gravity (H<sub>2</sub>O = 1.0):</b>	2.65
<b>Vapor Pressure:</b>	Not applicable
<b>Solubility in Water:</b>	Insoluble
<b>Appearance:</b>	Tan, Brown, Light Brown, Reddish Brown.
<b>Odor:</b>	No Odor
<b>Physical State:</b>	Solid
<b>Vapor Density:</b>	Not applicable

### Section 8: Fire and Explosion Hazard Data

**Flash Point:** None  
**Auto ignition Temperature:** Not combustible  
**Flammable Limits:** N/A  
**Extinguishing Media:** Not Combustible  
**Hazardous Combustion Products:** None

**Lower Explosive Limit:** None  
**Upper Explosive Limit:** None  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### Section 9: Stability and Reactivity Data

**Stability:** Product is stable  
**Incompatibility (Materials to Avoid):** Strong Acids  
**Hazardous Decomposition:** Will not occur  
**Hazardous Polymerization:** Will not occur

### Section 10: Handling and Storage

Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12.

### Section 11: Toxicological Information

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

### Section 12: Exposure Control/Personal Protection

**Respiratory Protection:** Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

**Eye Protection:** Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury.

### Section 13: Disposal Considerations

All disposal methods must be in accordance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator.

### Section 14: Transportation Data

Arizona Test Dust is not hazardous under U.S. DOT or TDG regulations.

### Section 15: Other Regulatory Information

#### Status under US OSHA Hazard

##### Communications Rule 29 CFR 1910.1200:

Silica sand is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

##### Status under CERCLA/Superfund, 40 CFR 117 and 302:

Not listed

##### Hazard Category under SARA (Title III), Sections 311 and 312:

Silica sand qualifies as a hazardous substance with delayed health effects.

##### Status under SARA (Title III), Section 313:

Not subject to reporting requirements under Section 313

##### Status under Canadian Environmental Protection Act:

Not listed.

### Section 16: Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.