SAFETY DATA SHEET

Section 1. Identification

Product name: Silica Sand, 100 and 200 Mesh

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Various commercial and industrial uses

Print date: 01/25/2016

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Version: 1.0

Supplier's details: Deep South Chemical, Inc. 229 Millstone Road, Broussard LA 70518

For Product Information/MSDSs Call: 337-837-9931

Emergency telephone number (with hours of operation):

CHEMTREC 800-424-9300 (U.S. 24 hour)

(001)281-276-5400

CANUTEC 613-996-6666 (Canada 24 hours)

CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

Classification of the substance or mixture:

H350 Carcinogen Category 1A

H372 STOT- Repeated Exposure Category 1

GHS label elements

Hazard pictograms:

Signal Word: DANGER!

Hazard statements:

May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Do not eat, drink, or smoke when using this product.

Wear protective gloves and safety glasses or goggles.

In case of inadequate ventilation wear respiratory protection.

Response:

If exposed or concerned: Get medical advice.

Storage:

None

Disposal:

Dispose of contents/containers in accordance with local regulations.

Hazards not otherwise classified:

No additional information.
Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica in the form of quartz</td>
<td>87-99.9</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact**: Flush the eyes immediately with large amounts of running water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.

**Inhalation**: Remove victim to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, have qualified personnel administer oxygen. Get prompt medical attention.

**Skin contact**: No first aid should be needed.

**Ingestion**: If large amounts are swallowed, get immediate medical attention.

**Most important symptoms/effects, acute and delayed**

May cause eye irritation with redness and tearing. Exposure to dust may cause mucous membrane and respiratory irritation, cough, sore throat, nasal congestion, sneezing and shortness of breath. However, there may be no immediate signs or symptoms of exposure to hazardous concentrations of respirable crystalline silica (quartz).

Section 5. Fire-fighting measures

**Extinguishing media**

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
<th>Specific hazards arising from the chemical</th>
<th>Hazardous thermal decomposition products</th>
<th>Special protective equipment for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product will not burn but is compatible with all extinguishing media.</td>
<td>None.</td>
<td>None.</td>
<td>None.</td>
<td>None required with respect to this product.</td>
</tr>
</tbody>
</table>

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**: Wear appropriate protective equipment.

**For emergency responders**: Wear appropriate protective equipment.

**Environmental precautions**: Report spills and releases as required to appropriate authorities.

Methods and materials for containment and cleaning up

If uncontaminated, collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. If contaminated: a) use appropriate method for the nature of contamination, and b)
consider possible toxic or fire hazards associated with the contaminating substance. Collect for appropriate disposal.

**Section 7. Handling and storage**

**Precautions for safe handling**: Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Silica may be in the air without a visible dust cloud.

**Protective measures**: Use normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust. Use good housekeeping in storage and use areas to prevent accumulation of dust in workplace. Use adequate ventilation and dust collection. To minimize exposure, wear a respirator approved for silica dust when using, handling, storing or disposing of this product or bag. Refer to most recent government and local regulations when selecting a respirator. Maintain, clean and fit test respirators in accordance with the most recent government and local regulations. Maintain and test ventilation and dust collection equipment. Launder clothing that has become dusty. Empty containers retain silica residue and must be handled in accordance with the provisions of this SDS. Warn and train employees in accordance with state and federal regulations.

**Advice on general occupational hygiene**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including incompatibilities**: Store in cool, dry conditions in well sealed containers.

**Section 8. Exposure controls/personal protection**

**Control parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL and MSHA Exposure Limit for Crystalline Silica, Quartz (Respirable measured as an 8-hour TWA)</td>
<td>10 mg/m³ % Silica+2</td>
</tr>
<tr>
<td>TLV – 0.025 mg/m³ 8-hour TWA (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>NIOSH REL – 0.05 mg/m³ 10-hour work day, 40 hours per week</td>
<td></td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**: Use local exhaust as required to maintain exposures as far as possible below applicable occupational exposure limits. See also ACGIH "Industrial Ventilation – A Manual for Recommended Practice". Control of exposure to dust must be accomplished as far as feasible by accepted engineering control measures.

**Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Eye/face protection**: Safety glasses or goggles are recommended.

**Hand protection**: Protective gloves are recommended.

**Skin protection**: Not required under normal conditions of use. Dusty clothing should be laundered before reuse.

**Respiratory protection**: When effective engineering controls are not feasible, or while they are being implemented, appropriate respiratory protection must be used. Use appropriate respiratory protection for respirable particulates based on consideration of airborne workplace concentrations and duration of exposure arising from intended end use. Refer to the most recent government and local standards.
Section 9. Physical and chemical properties

Physical state: Solid
Color: White powder
Odor: Odorless
pH: Not applicable
Melting/freezing point: 2930°F
Boiling point: 4046°F
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability: Fully oxidized, will not burn
Lower and upper explosive limits: Not applicable
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: 2.65 at 68°F
Density: 22.10 lbs/gal
Solubility in water: Insoluble
Partition coefficient: Not applicable
n-octanol/water: Not applicable
Auto-ignition temp.: Will not burn
Decomposition temp.: Not applicable
Viscosity: Not applicable
VOC: Not available
Pour point: Not available

Section 10. Stability and reactivity

Reactivity: Will not occur under normal conditions.
Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: None known.
Materials to avoid: Powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, etc.
Thermal decomposition: Silica will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.
Hazardous reactions: None known.

Section 11. Toxicological Information

Information on toxicological effects
Acute oral toxicity
No adverse effects expected.

Acute inhalation toxicity
Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have serious chronic health effects.

Acute dermal toxicity
No adverse effects expected.

Acute eye toxicity
May cause mechanical irritation and possible injury.

Acute toxicity values
Silica: LD50 oral rat >22,500 mg/kg.
Irritation/Corrosion
No additional information.

Sensitization
Not a skin sensitizer in animals or humans.

Repeated Dose Toxicity
Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop mycobacterial infections and fungal infections. Inhalation of air with a very high concentration of dust can cause the most serious forms of silicosis in a matter of months or a few years. Some epidemiologic studies have concluded that there is significant risk in developing silicosis even at airborne exposure levels that are equal to the recommended NIOSH REL and ACGIH TLV.

Mutagenicity
No specific data is available, however, there is no evidence that silica is a germ cell mutagen.

Carcinogenicity
Group 1 carcinogen to humans

Reproductive toxicity
No specific data is available, however, there is no evidence that silica exposure has any effect on reproduction.

Section 12. Ecological information
Toxicity
Practically non-toxic to aquatic organisms. Silica: LC50 carp >10,000 mg/L/72 hr

Persistence and degradability
Silica is not degradable.

Other adverse effects: No known effects or critical hazards.

Section 13. Disposal considerations
Disposal methods: If uncontaminated, dispose as an inert, non-metallic mineral. If contaminated, dispose in accordance with all applicable local and national regulations in light of the contamination present.

Section 14. Transport information
DOT Transport Information: Not Regulated

DOT Reportable Quantity: Not applicable
Marine pollutant: Not available

Section 15. Regulatory information
TSCA 12(b): All ingredients are listed or exempt from premanufacture notification requirements.

SARA 302/304: No products found.
SARA 311/312: Chronic health
SARA 313: None listed
CERCLA: None listed
Section 16. Other information

National Fire Protection Association (NFPA)
Health (1)  Fire (0)  Reactivity (0)

Date of Printing:

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