



Material Safety Data Sheet

Sand and Gravels

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TCC Materials
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Revision Date:
September 2008

SECTION I: PRODUCT IDENTIFICATION

Product Types: **Sands & Gravels**

AKONA Product Name:

Nurserymen's Preferred Paver Base
Nurserymen's Preferred Paver Leveling Sand

Nurserymen's Preferred Pea Gravel
TCC Materials Tube Sand

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) Mg/m ³	TLV(ACGIH) Mg/m ³
Limestone	01317-65-3	5	5
Silica Sand, crystalline	14808-60-7	$\frac{10}{\%SiO_2 + 2}$	0.05 (respirable)

Other Limits: National Institute of Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/m³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: White or tan sand, granular, crushed, or ground to find mesh sizes

Boiling Point: 4046° (2230°C)

Specific Gravity: 2.5 to 2.7

Vapor Pressure: Not applicable

Evaporation Rate: Not applicable

Vapor Density: Not applicable

Odor: Not applicable

Solubility in Water: Slight

Melting Point: >3110°F (1710°C)

Flash Point: Not applicable

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flammable Limits: Not applicable

Fire Extinguishing Media: This product will not burn but is compatible with all extinguishing media. Use any media that is appropriate for the surrounding fire.

Special Fire Fighting Procedures: None required with respect to this product.

Unusual Fire and Explosion Hazards: None

SECTION V: REACTIVITY DATA

Stability: Crystalline silica (quartz) is stable.

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

Hazardous Decomposition or Byproducts: Silica will dissolve in hydrofluoric acid and produce a corrosive gas - silicon tetrafluoride.

Hazardous Polymerization: Will not occur

SECTION VI: HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	No

Health Hazards (Acute and Chronic)

Silicosis: Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death.

Lung Cancer: Crystalline silica (quartz) inhaled from occupational sources is classified carcinogenic to humans.

Tuberculosis: Silicosis increases the risk of tuberculosis.

Autoimmune and Chronic Kidney Diseases: Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica.

Non-Malignant Respiratory Diseases: (other than silicosis) Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.

Eye Contact: Crystalline silica (quartz) can cause abrasion of the cornea.

Skin Contact: Not applicable

Ingestion: Not applicable

First Aid:

Inhalation: No first-aid is necessary because the adverse health effects associated with the exposure to crystalline silica (quartz) occur from chronic exposures. If there is a gross inhalation of crystalline silica (quartz), immediately remove the person to fresh air, give artificial respiration as needed, seek medical attention as needed.

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.

Skin Contact: No first aid should be needed since dermal contact with this product does not affect the skin. Wash exposed skin with soap and water before breaks and at the end of the shift.

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

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Waste Disposal Method: Silica is not classified as a hazardous waste under US EPA RCRA regulations. If uncontaminated, dispose as an inert, non-metallic mineral. If contaminated, dispose in accordance with all applicable local, state/provincial and federal regulations in light of the contamination present.

Precautions To Be Taken In Handling and Storing: Take normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust.

Other Precautions: Use adequate ventilation and dust collection. Do not permit dust to accumulate in work area. Maintain and use proper and clean respiratory equipment. Clean clothing which has become dusty. Warn and train your employees in accordance with all applicable Federal and State "Right to know" laws and regulations.

Respiratory Protection: Use conventional particulate respiratory protection based on considerations of airborne concentrations and duration of exposure. See most recent standards of the American National Standard Institute.

Ventilation: Local Exhaust: Use local exhaust as required to maintain exposures as far as possible below applicable occupational exposure limits. Control of exposure to dust must be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general or local exhaust ventilation and substitution of less toxic materials).

SECTION VIII: CONTROL MEASURES

Mechanical: 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.

Eye Protection: Safety glasses or goggles recommended.

Special Protection: Protective gloves, safety glasses or goggles, dusty clothing should be laundered before reuse.

FOOT NOTES

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