



TCC Materials
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Emergency Telephone Number:
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Revision Date
September 2017

Section 1: Product Identification

Product Type: Sands

Product Name:
Tech-Mix® All-Purpose Sand

Section 2: Hazard Identification

These products are not likely to be harmful unless dust is created. Very fine dust from these products will contain respirable crystalline silica, which is harmful to breathe. Keep moist; use handling methods to minimize dust.

Label Elements
Hazard Pictogram:



Signal Word: Danger: Crystalline silica may cause cancer when inhaled. Crystalline silica causes damage to lungs through prolonged or repeated exposure from inhaling dust.



This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as a Health Hazard Carcinogen Category 1A, because it contains crystalline silica (quartz).

Applicable hazard statements, based on respirable crystalline silica:

H350: May cause cancer from inhaling dust.

H372: Causes damage to respiratory system (silicosis) through prolonged or repeated exposure to inhaled dust.

Applicable Precautionary Statements, based on respirable crystalline silica:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dusts

P270: Do not eat, drink or smoke when using this product.

P280: Wear eye protection

P308+313/314. If exposed or concerns, or if you feel unwell: Get medical advice

P501: Dispose of contents in accord with local regulations



HMIS® Rating: Health: 0* Fire: 0 Reactivity: 0
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Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
Crystalline silica (quartz)	up to 100%	14808-60-7

Section 4: First Aid Measures

Inhalation:

If dustiness causes breathing problems, move to fresh air.

Eye contact:

Hold eyelids apart and flush eyes with plenty of water. At least fifteen minutes of flushing is recommended. If any irritation persists, get medical attention.

Skin Contact:

Wash with soap and water.

Ingestion:

Check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.

Symptoms of overexposure:

Inhalation: If material is dusty, breathing the dust may cause coughing and nose and throat irritation. Long term exposure to respirable crystalline silica in the dust can cause silicosis (lung scarring) and lung cancer.

Eye contact: Eye abrasion and irritation may develop from direct contact.

Skin Contact: May cause abrasion of skin.

Note to physician: Treat according to symptoms. No known specific antidote.

Section 5: Fire Fighting Measures

Fire extinguishing media: Appropriate for surrounding materials. Product is not flammable.

Special fire fighting procedures: None

Unusual fire and explosion hazards: None

Hazardous combustion products: None expected.

Section 6: Accidental Release Measures

Contain and clean up. Avoid creating dust. Clean area with water.



Section 7: Handling and Storage

Avoid breathing dust. Use handling measures, such as keeping product moist, to minimize dust formation.

Wash hands after use.

Do not eat, drink, or use tobacco products when handling any chemical products.

Storage: No special precautions required.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA PEL	ACGIH TLV	NIOSH REL
Crystalline silica (quartz)	50 µg/m ³ (8-hr TWA)	25 µg/m ³ (respirable)	50 µg/m ³ (respirable)

Engineering Controls:

Water can be used as a dust suppressant if necessary

Personal protective equipment

Respiratory protection: Not needed unless dust is created.

For protection against irritation from dust or up to ten times the recommended exposure limits, use a NIOSH-approved N-95 filtering facepiece or a half mask respirator equipped with N-95 filters. A more protective respirator (e.g., P100 filters or full face respirator) may be substituted.

Skin protection: Sturdy work gloves recommended to protect hands from abrasion.

Eye protection: Safety glasses with side shields recommended if material could become airborne.

Section 9: Physical and Chemical Properties

Appearance and odor: Small tan or beige particles (sand). No odor
Flash point: Noncombustible.
Flammable limits: N/A
Melting Point: >3000°F
Solubility in water: Negligible.
Specific Gravity: 2.5 – 2.8
Evaporation Rate: Does not evaporate.



Section 10: Stability and Reactivity

Stability: stable

Conditions to avoid: none known.

Incompatibility: strong oxidizers, strong acids. Silica will dissolve in hydrofluoric acid to produce silicon tetrafluoride, a corrosive gas.

Hazardous polymerization: will not occur

Hazardous decomposition products: Material is not likely to decompose. Abrasion can create very fine particles that can get deep into the lungs (respirable size).

Section 11: Toxicological Information

Not considered acutely toxic.

No listed ingredients are classified as irritants, per skin or eye irritation criteria of GHS

Not considered respiratory or skin sensitizer

No ingredients have been associated with reproductive toxicity

Respirable crystalline silica is categorized as a Health Hazard Carcinogen Category 1A (known to have carcinogenic potential for humans) and a Health Hazard Specific Target Organ Toxicity – Repeated Exposure Category 1. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. There is evidence that exposure to respirable silica or the disease silicosis is associated with an increased incidence of scleroderma, tuberculosis and kidney disorders.

Crystalline silica is listed as carcinogenic according to IARC. ACGIH classified crystalline silica as a suspected human carcinogen

Section 12: Ecological Information

Product has not been tested but is expected to have very low acute toxicity.

Ecotoxicity:

Not considered hazardous to the aquatic environment or to the ozone layer.

Persistence and degradability: Not likely to biodegrade

Mobility in soil: not mobile.

Bioaccumulation: Not likely to bioaccumulate

Section 13: Disposal Considerations

As provided, not a RCRA-regulated waste.

Dispose of in accordance with federal, state, and local regulations.



Section 14: Transportation

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

Section 15: Regulatory Information

U.S. State Regulations

The state of California requires the following statement (Proposition 65) in regards to this material:



WARNING: This product can expose you to chemicals including crystalline silica which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product is on the New Jersey Right to Know Hazardous Substance List.

U.S. Federal Regulations

This product does not contain any hazardous air pollutants, nor any chemicals specifically regulated under:

CERCLA	SARA 302 EHS
SARA 311/312	SARA 313

Section 16: Other Information

Additional information on the products is available at: www.tccmaterials.com

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