



Safety Data Sheet

M-Tech Sand

Section 1: Identification

Product: M-Tech Sand

Synonyms: Fine Sand, Coarse Sand, Trac Sand

Product Use: Formulated for use in various applications.

Manufacturer: **Mortar Technologies**, A Division of LYCON Inc.

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Section 2: Hazard(s) Identification

GHS LABEL ELEMENTS:

Symbol(s)



Signal Word

Warning!

Hazard Statements

Harmful if inhaled.

Harmful if swallowed.

Causes damage to organs through prolonged or repeated exposure (lungs).

Precautionary Statements

Prevention

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

Wash thoroughly after handling.

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

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

Response

If inhaled: Remove to fresh air, seek medical attention if breathing becomes difficult or other symptoms do not subside.

If swallowed: Rinse mouth. Do NOT induce vomiting. If conscious, drink plenty of water. Immediately call a poison center or physician.

If on skin: Wash skin with cool water. Seek medical attention if irritation develops or persists.

In the eyes: Immediately flush eye thoroughly with water for at least 15 minutes, including under the lid. Remove contact lenses, if worn. If irritation persists, seek medical attention.

Take off contaminated clothing and wash it before reuse.

Disposal

Dispose in accordance with State, Federal and Local regulations.



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Section 3: Composition/Information on Ingredients

Component	Percent (By Weight)	CAS Number	OSHA PEL – TWA (mg/m ³)	ACGIH TLV – TWA (mg/m ³)
Crystalline Silica (Sand)	99-99.1	14808-60-7	[(10) / (%SiO ₂ +2)] (R); [(30) / (%SiO ₂ +2)] (T)	0.025 (R)

(T) = Total Particulate

(R) = Respirable Particulate

General Product Information

Trace Elements: M-Tech Sand is made from materials mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

Section 4: First-Aid Measures

Eyes

Immediately flush eyes thoroughly with water. Continue flushing eyes for at least 15 minutes, including under the lids, to remove all particles. Remove contact lens if wearing. Call physician if irritation persists.

Skin

Wash skin with cool water. Remove contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

Ingestion

Do NOT induce vomiting unless directed to do so by a medical personnel. Rinse mouth. If conscious, give plenty of water to drink and call a physician immediately.

Inhalation

Remove to fresh air. Seek medical attention if coughing and other symptoms do not subside.

Symptoms and Effects, Both Acute and Delayed

Eyes

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin

May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Handling can cause dry skin.

Inhalation

May cause respiratory tract irritation.

Ingestion

Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Section 5: Fire-Fighting Measures

General Fire Hazards

See Section 9 for Flammability Properties. Non-Combustible

Hazardous Combustion Products

None

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Avoid breathing dust. Firefighters should wear full protective gear.



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Section 6: Accidental Release Measures

General

Place spilled material into a container. Avoid actions that cause sand to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate protective equipment as described in Section 8. Do not flush sand to sewage and drainage systems or into bodies of water (e.g. streams).

Methods for Clean-Up

Vacuum or sweep material and place in a disposal container.

Waste Disposal Method

Dispose according to State, Federal and Local regulations.

Section 7: Handling and Storage

Handling

Keep bulk and bagged M-Tech Sand dry until used. Stack bagged material in a secure manner to prevent falling. Bagged M-Tech sand are heavy and pose risks such as sprains and strains to the back, arms, shoulders, and legs during lifting and mixing. Handle with care and use appropriate control measures.

Avoid contact with skin and eyes. Do not swallow. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. The use of compressed air for cleaning clothing, equipment, etc., is not recommended. Handle and open container with care. When using do not eat or drink. (See section 8)

Storage

Keep out of the reach of children. Avoid any dust buildup by frequent cleaning of the storage area.

Clothing

Laundry contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Section 8: Exposure Controls/Personal Protection

Engineering Controls

Use local exhaust or general dilution ventilation or other suppression method to maintain dust levels below exposure limits.

Respiratory Protection

Under ordinary conditions no respirator protection is required. A NIOSH approved dust mask that is properly fitted and is in good working is recommended in poorly ventilated areas or when exposed to dust above exposure limits.

Eye Protection

Wear ANSI approved safety glasses with side shields or safety goggles when handling sand to prevent contact with eyes. Wearing contact lenses when using sand, under dusty conditions, is not recommended.

Skin Protection

Wear gloves, boots and protective clothing (long sleeve shirt and pants) impervious to water to prevent skin contact. Remove clothing and protective equipment that becomes saturated with dust and immediately was exposed areas.

Hygienic Practices

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Evaporation Rate:	NA
Appearance:	Angular, smooth multicolor particles	pH (in water):	NA
Odor:	None	Boiling Point:	NA
Vapor Pressure:	NA	Melting Point:	NA
Vapor Density:	NA	Viscosity:	NA
Specific Gravity:	NA	Solubility in Water:	Slight
Ignition:	Non-Flammable	Flash point:	NA



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Section 10: Stability and Reactivity

Stability

Stable under normal storage conditions. Keep dry in storage.

Incompatibility

Silica dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Polymerization None.

Hazardous Decomposition May include oxides of carbon.

Conditions to Avoid Moisture.

Section 11: Toxicological Information

Likely Routes of Exposure:

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Carcinogenicity

General Product Information (Chronic)

May cause cancer.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Standard animal toxicity data like LD50, LC50 are not available. Animal tests and epidemiologic studies of workers indicate an increased risk of lung cancer from exposure to respirable crystalline silica. The effect was more pronounced in those with silicosis.

Component Carcinogenicity

Crystalline Silica, Quartz

ACGIH: Suspected Human Carcinogen

NIOSH: Potential Occupational Carcinogen

NTP: Known Human Carcinogen

IARC: Monograph 100C [2012] Crystalline silica in the form of quartz or cristobalite is carcinogenic to humans (Group 1)

Chronic Health Effect

Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Aspiration Respiratory Organ hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological Information (non-mandatory)

Seek information from appropriate regulatory agencies.

Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Container or Packaging

Dispose of contents/container in accordance with State, Federal and Local regulations.



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Section 14: Transport Information (non-mandatory)

Not regulated by the U.S. DOT.

Section 15: Regulatory Information (non-mandatory)

OSHA/MSHA Hazard Communication

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.

CERCLA/SUPERFUND

This product is not listed as a CERCLA hazardous substance.

Section 16: Other Information

Abbreviations

PPE	Personal Protective Equipment	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
DOT	U.S. Department of Transportation	NTP	National Toxicology Program
HMIS	Hazardous Materials Identification System	PEL	Permissible Exposure Limit
IARC	International Agency for Research on Cancer	OSHA	Occupational Safety and Health Administration
MSHA	Mine Safety and Health Administration	pH	Negative log of hydrogen ions
TLV	Threshold Limit Value		

HMIS: Health-4, Flammability-, Reactivity-

HMIS Definitions: 4-Minimal, 3-Moderate, 2-Serious, 1-Extreme, Blank-No Hazard

Protective Equipment: Safety glasses, gloves, impervious clothing, respirator recommended

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