Safety Data Sheet Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Specialty Graded Sand, All Purpose Sand, Child Health Sand, Filter Sand, Mason Sand, Traction Grit, White Sand, Washed Gravel

Product Form: Mixture

1.2 Product Use: Various

1.3 Supplier/Manufacturer: Lime*Works*.us
3145 State Road
Telford, PA 18969

Phone Number: (215) -536-6706

1.4 Emergency Number: CHEMTREC (800) 424-9300

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the Chemical:

Hazard Class:

Acute toxicity	4 (oral)
Carcinogenicity	1A
Specific target organ toxicity –	Repeated exposure 1

2.2 Label Elements:

Hazard Pictogram:

Signal Word: Danger

Hazard Statement: Causes damage to organs through prolonged or repeated exposure. May cause cancer. Harmful if swallowed.

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed or concerned get medical advice/attention.

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Get medical advice/attention if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

2.3 Additional Information:

Hazards not otherwise classified: N/A

SAFETY DATA SHEET

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures:

Ingredient	UN #	H/F/R/*	CAS #	Wt. %
Silica, Crystalline, Quartz	N/A	N/A	14808-60-7	60-100

The exact percentage (concentration) or chemicals has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000.

Section 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Eye: 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.

4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE FIGHTING MEASURES

5.1 Flammability: Not flammable by WHMIS/OSHA criteria.

5.2 Extinguishing Media:

Suitable Extinguishing Media: Treat for surrounding material

Unsuitable Extinguishing Media: N/A

5.3 Special Hazards Arising From the Chemical:

Products of Combustion: May include, and are not limited to: oxides of carbon

Explosion Data:

Sensitivity to Mechanical Impact: N/A

Sensitivity to Static Discharge: N/A

5.4 Special Protective Equipment and Precautions for Fire Fighters: Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 Methods and Materials for Containment/Cleanup:

Methods for Containment: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleanup: Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Handling: 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. Wash hands before eating, drinking, or smoking. (See section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Storage: Keep out of the reach of children. Store in dust-tight, dry, labeled containers. Keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. (See section 10).

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters:

Exposure Guidelines:

Ingredient	OSHA-PEL	ACGIH-TLV
Silica, Crystalline, Quartz	((10 mg/m^3)/(%SiO_2+2) TWA (resp)) ((30 mg/m^3)/(%SiO_2+2) TWA (total))	.025 mg/m^3

	((250)/(%SiO_2+5) mppcf TWA (resp))	

8.2 Exposure Controls:

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 Individual Protective Measures:

Personal Protective Equipment:

Eye/Face Protection: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Hand Protection: Wear suitable waterproof gloves.

Body Protection: Wear suitable waterproof protective clothing.

Respiratory Protection: A NIOSH approved dusk mask or filtering face-piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Hygiene Considerations: Handle according to established industrial hygiene and safety 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

9.1 Information on Basic Physical and Chemical Properties:

Appearance: Powder, Granular, Pebble

Color: White, Tan, or Gray

Odor: None

Odor Threshold: N/A

Physical State: Solid

pH: N/A

Viscosity: N/A

Melting Point/Freezing Point: 2930° F/1610° C

Initial Boiling Point and Boiling Range: 4046° F/2230° C

Flash Point: N/A

Evaporation Rate: N/A

Flammability: Fully oxidized, will not burn.

Lower Flammability Limit: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Relative Density: 2.65

Bulk Density: N/A

Lower Explosion Limit: N/A

Upper Explosion Limit: N/A

Solubility in Water: Insoluble

Coefficient of Water/Oil Distribution: N/A

Auto-ignition Temperature: N/A

Percent Volatile, wt. %: N/A

VOC Content, wt. %: 0% N/A; 0 wt, N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability: Stable under normal conditions. Keep in dry storage.

10.3 Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to Avoid: Incompatible materials. Moisture.

10.5 Incompatible Materials: Wet cement is alkaline and incompatible with acid, ammonium salts and aluminum metal.

10.6 Hazardous Decomposition Products: May include, and are not limited to; oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Likely routes of exposure: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Eye: 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 skin. Handling can cause dry skin.

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

Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Silica, Crystalline, Quartz	Ca[25 mg/m^3 (cristobalite, tridymite); 50 mg/m^3 (quartz, tripoli)]	N/A	Oral 500 mg/kg, rat

Calculated Overall Chemical Acute Toxicity Values:

LC50 (inhalation): N/A
LD50 (oral): 500 mg/kg, rat
LD50 (dermal): N/A

Ingredients	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Silica, Crystalline, Quartz	G-A2, I-1, N-1, O, CP65

11.2 Delayed, Immediate and Chronic Effects of Short- and Long- Term Exposure:

Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation:	Based on available data, the classification criteria are not met.
Respiratory Sensitization:	Based on available data, the classification criteria are not met.
Skin Sensitization:	Based on available data, the classification criteria are not met.
STOT-Single Exposure:	Based on available data, the classification criteria are not met.
Chronic Health Effects:	Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (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.
Carcinogenicity:	May cause cancer.
Germ Cell Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	
Developmental:	Based on available data, the classification criteria are not met.
Teratogenicity:	Not hazardous by WHMIS/OSHA criteria
Embryotoxicity:	Not hazardous by WHMIS/OSHA criteria
Fertility:	Based on available data, the classification criteria are not met.
STOT-Repeated Exposure:	Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials:	N/A
Other Information:	N/A

Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Acute/Chronic Toxicity:	No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems, and treatment plants is not considered environmentally harmful.

12.2 Persistence and Degradability: N/A

12.3 Bioaccumulative Potential:

Bioaccumulation: N/A

12.4 Mobility in Soil: N/A

12.5 Other Adverse Effects: N/A

Section 13: DIPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Disposal Method: This material must be disposed of in accordance with local, state, provincial, and federal regulations.

Other disposal recommendations: N/A

Section 14: TRANSPORTATION INFORMATION

14.1 UN Number:

Dot: Not Regulated
TDG: Not Regulated
NOM-004-SCT2-1994: Not Regulated

14.2 UN Proper Shipping Name:
Dot: Not Applicable
TDG: Not Applicable
NOM-004-SCT2-1994: Not Applicable

14.3 Transport Hazard Class (ES)
Dot: Not Applicable
TDG: Not Applicable
NOM-004-SCT2-1994: Not Applicable

14.4 Packing Group
Dot: Not Applicable
TDG: Not Applicable
NOM-004-SCT2-1994: Not Applicable

14.5 Environmental Hazards: Not Available

14.6 Transport in Bulk According to Annex II or Marpol 73/78 and the IBC Code: Not Available

14.7 Special Precautions for User: Do not handle until all safety precautions have been read and understood

Section 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000

SARA Title III:

Ingredient	Section 302	Section 304	CERCLA	Section 313

Silica, Crystalline, Quartz	N/A	N/A	N/A	N/A

STATE REGULATIONS:

California Prop. 65: This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories:

Ingredient	CANADA DSL/NDSL	USA / TSCA
Silica, Crystalline, Quartz	DSL	YES

NFPA- National Fire Protection Association:

Health:	2
Fire:	0
Reactivity:	0

HMIS- Hazardous Materials Identification System:

Health:	2*
Fire:	0
Reactivity:	0

Hazard Rating:

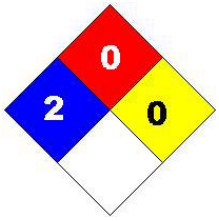
0 = minimal 1 = slight 2 = moderate 3 = severe 4 = extreme

WHMIS Classification(s):

Class D2A – Carcinogenicity
Class D2A – Chronic Toxic Effects

WHMIS Hazard Symbols:

Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Source Agency Carcinogen Classifications:

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.
A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.
A3 - Animal carcinogen.
A4 - Not classifiable as a human carcinogen.
A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.
2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.
2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

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