Safety Data Sheet

Lake Sand

Revision date:
May 1, 2015

1. Identification

Product Name: Lake Sand

Synonyms: Concrete Sand, PA DOT Type A Sand, Lake Erie Mason Sand, Mason Sand, Beach Sand, Snuff Sand, BG (block grit)

Recommended Uses: Industries such as gas & oil, water filtration, construction materials, cement, non-skid surfaces, fillers, golf course sand. Do not use this product for abrasive blasting.

Manufacturer: Carmeuse Lime & Stone

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Pittsburgh, PA 15222
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Phone: (519) 423-6283
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Emergency Contact: Infotrac: (800) 535-5053 (24 hrs a day, 7 days a week)

2. Hazards Identification

GHS classification

Physical Hazards

None

Health Hazards

Carcinogenicity	Category 1A
Specific Target Organ Toxicity – Repeated Exposure	Category 1

GHS Label Elements:

Signal Word: Danger

Hazard Statements:
May cause cancer through inhalation
Causes damage to lungs through prolonged or repeated exposure by inhalation

Precautionary Statements:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash thoroughly after handling.
Use personal protective equipment as required
Do not eat, smoke or drink when using this product
Do not use this product for abrasive blasting.

Pictograms:

3. Composition

Chemical name	% by weight	CAS#
Silica-crystalline quartz	67-70	14808-60-7
Aluminum Oxide	4-5	1344-28-1
Iron Oxide	1-2	1309-37-1
Magnesium oxide	1-2	1309-48-4
Calcium oxide	10-12	1305-78-8
Sodium oxide	0.5-1.5	1313-59-3
Potassium oxide	1-1.5	12136-45-7

4. First Aid Measures

Eyes: Flush victim's eyes thoroughly with large quantities of water, including under eye lids. Get medical attention if irritation persists.

Skin: Wash skin thoroughly with soap and water.

Ingestion: Get medical attention if a large amount is swallowed.

Inhalation: Remove victim to fresh air. If symptoms persist or breathing is difficult, get medical attention.

Most Important Symptoms: Eye and respiratory irritation due to exposure to dust.

Immediate medical attention / special treatment? No immediate medical attention anticipated.

5. Fire Fighting Measures

Suitable (and unsuitable) fire extinguishing media: Use extinguishing media appropriate for surrounding conditions.

Specific hazards arising from the product None

Special protective equipment and precautions for fire fighters Wear positive pressure SCBA when dust may be airborne.

6. Accidental Release Measures

Personal precautions, protective equipment, emergency procedures:

Ventilate the area – stay upwind. Do not walk through spilled material. Wear appropriate personal protective equipment to prevent contact. Do not breathe dust. Do not rely on sight to determine if dust is in the air. Respirable dust may be present without a visible dust cloud.

Methods and materials for containment and clean up:

Utilize cleanup methods that minimize generating dust. Water may be used to control dust, but wet dust can be very slippery and result in a slip hazard.

7. Handling & Storage

Safe Handling: Avoid skin and eye contact. Avoid generating airborne dust. An eye wash station should be readily available when this product is handled.

Safe Storage: Store in dry, well ventilated areas, away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

	OSHA PEL (mg/m^3)	ACGIH TLV (mg/m^3)	Ont. Reg. 833 TWAEV (mg/m^3)
silica - crystalline quartz	30 / (% silica +2) (total) 10 / (% silica +2) (respirable)	0.025 (respirable)	0.1
Aluminum Oxide*	15 (total) 5 (respirable)	1**	1**
Iron Oxide*	5 (fume) 15 (total) 5 (respirable)	5	5 (respirable)
Magnesium oxide*	15 (total) 5 (respirable)	10	10
Calcium oxide	5	2	2
Sodium oxide*	15 (total) 5 (respirable)	-	-
Potassium oxide*	15 (total) 5 (respirable)	-	-

**PELs for Particulates Not Otherwise Classified*
*** as aluminum insoluble compounds*

Engineering Controls: Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Specific Eye / Face Protection: In windy conditions, or if work activity generates elevated airborne dust levels, dust proof or chemical goggles are recommended.

Specific Skin Protection: When prolonged skin contact is likely to occur, wear appropriate clothing and gloves.

Specific Respiratory Protection: If exposure limits are exceeded, an approved particulate respirator, or supplied air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.

9. Physical & Chemical Properties

Appearance:	Light to medium brown sand; granular, crushed
Odor:	Odorless
Odor threshold:	Not Applicable
pH:	6-8
Melting Point/Freezing Point:	1710 °C (3110 °F)
Boiling Point and range:	2230 °C (4046 °F)
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability:	Not Available
Upper/lower flammability or explosive limits	Not Applicable
Vapor pressure/density:	Non Volatile
Relative density:	2.65
Solubility:	Insoluble
Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature:	Not Available
Decomposition temperature:	Not Available
Viscosity:	Not Applicable

10. Stability & Reactivity

Reactivity:	Inert. Not reactive. However, silica will dissolve in hydrofluoric acid and produce a corrosive gas – silicon tetraflouride.
Chemical stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	See Reactivity above.
Conditions to avoid:	Vicinity of incompatible materials.
Incompatibility:	Contact with powerful oxidizing agents, such as fluorine, boron trifluoride, chlorine trifluoride, managanese trifluoride and oxygen difluoride, may cause fires.
Hazardous decomposition products:	No data available

11. Toxicological Information

Likely routes of exposure & symptoms:

Eyes: Exposure to pulverized dust may cause irritation

Skin: Exposure to pulverized dust may cause dryness and irritation

Ingestion: No adverse effects expected for normal, incidental ingestion. If a large amount is swallowed, may cause gastrointestinal irritation, discomfort and blockage.

Inhalation: Exposure to pulverized dust may cause irritation in nose, throat and lungs

Chronic health effects:	This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, as serious lung disease.
Respiratory or skin sensitization:	This material is not known to cause sensitization
Germ cell mutagenicity:	No data available.
Carcinogenicity:	This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as “Carcinogenic to Humans” (Group 1) and “Known to be a Human Carcinogen" by NTP.
Reproductive toxicity:	No Data Available.
Numerical Measures of Toxicity	Crystalline Silica: Oral Rate LD_{50} > 22,500 mg/kg

12. Ecological Information

Not toxic to the ecological systems.

13. Disposal Considerations

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

14. Transport Information

This product is not classified as a hazardous material under US DOT or Canadian TDG regulations.

15. Regulatory Information

CERCLA Hazardous Substances	Not listed
SARA Toxic Chemical (40 CFR 372.65)	Not listed
SARA Section 302 Extremely Hazardous Substances (40 CFR 355)	Not listed
SARA 311/312	Not listed
SARA Section 313 Toxic Chemicals reporting requirements	none
Threshold planning quantity (TPQ)	Not listed
RCRA Hazardous Waste Classification (40 CFR 261)	Not Classified
EPA Toxic Substances Control Act (TSCA) Status	All of the components of this product are listed on the TSCA
California Proposition 65	Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.
NFPA ratings	Health: 1 Fire: 0 Reactivity: 0
HMIS Ratings	Health: 1 Fire: 0 Reactivity: 0 Personal protection: A
OSHA Specifically regulated substance (29 CFR 1910)	Not listed
OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A)	Listed
MSHA	Not listed
Canada DSL	Listed
Canadian WHMIS Classification	D2A, Materials Causing other toxic effects.

Canada CPR	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation of Canada and this SDS contains all the required information.
Ontario Regulations	Refer to Regulation 845: Designated Substances - Silica

16. Other Information

List of GHS Hazard Statements:	H350: May cause cancer by inhalation H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.
List of GHS Precautionary Statements:	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P281: Use personal protective equipment as required

Abbreviations

CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act	IARC	International Agency for Research on Cancer
NTP	National Toxicology Program		

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