



SAFETY DATA SHEET

Granite (crushed aggregate)

1. IDENTIFICATION

Product Name: CRUSHED AGGREGATE
Synonyms: Aggregate, manufactured sand
Product Use: Portland cement concrete, roadway fill, embankment
Manufacturer/
Supplier: Landing Quarry
206 Landing Road
Landing, NJ 07850
Emergency phone: Daytime: 973-601-3400;
888-697-6251 (night: 240-447-7231)

2. HAZARD IDENTIFICATION

DANGER!

May cause cancer by inhalation.

May cause damage to lungs through prolonged or repeated inhalation.

GHS Classification:

Health	Environmental	Physical
Carcinogen - Category 1 STOT Chronic (inhalation), Category 2	None	None

GHS Label:



Symbols:

Hazard Statements

DANGER!

May cause cancer by inhalation.

May cause damage to lungs through prolonged or repeated inhalation.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Do not breathe dust. Wear respiratory protection.

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

Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS #	EINECS #	Wt.%
Crystalline Silica (Quartz, SiO ₂)	14808-60-7	238-878-4	15-30

See Section 8 for exposure limits

4. FIRST - AID MEASURES

Inhalation: IF INHALED: Remove person to fresh air and ensure comfortable breathing. Get medical attention if irritation persists or if you feel unwell.

Skin Contact: IF ON SKIN: Wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists. May cause irritation by mechanical abrasion.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical attention if irritation persists.

Ingestion: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical attention if irritation persists.

Note to physician: Treat symptomatically, see Section 11.



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5. FIRE - FIGHTING MEASURES

Suitable Extinguishing media: Product will not burn. Use extinguishing agents appropriate to the surrounding fire.

Unsuitable Extinguishing media: Not applicable.

Special exposure hazards: None for emergency response.

Combustion products: Will not burn.

Protection of firefighters: Will not burn.

NFPA Hazard Classification: Health: 1 Flammability: 0 Instability: 0 Special: --

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use suitable protective equipment (see section 8) to prevent contamination of eyes. Prevent dispersion of dust.

Methods for cleanup: Do not create dust. Shovel wet into an appropriate container for reuse or disposal in accordance with applicable regulations and product characteristics at time of disposal (see also Section 13).

7. HANDLING AND STORAGE

Handling: Do not eat, drink or smoke when handling this material. Avoid breathing dust. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Storage: General storage is appropriate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: ACGIH: Respirable crystalline silica, TWA = 0.025 mg/m³

OSHA PEL: Crystalline Quartz (respirable): TWA 10 mg/m³/(%SiO₂ + 2),

Quartz (total dust): TWA 30 mg/m³/(%SiO₂ + 2)

Nuisance Dust (PNOR): 5 mg/m³ (respirable), 15 mg/m³ (total).

Engineering controls: Housekeeping is the most effective dust control. Wet cutting and local exhaust ventilation are recommended for stone cutting operations. Use a HEPA filter vacuum to prevent dust accumulation. Use water (spray) to suppress dust for chipping, cutting, drilling, crushing or grinding operations.

Personal protection: General: General hygiene considerations are appropriate when used as recommended. The following precautions are recognized as common good industrial hygiene practice. Follow precautions listed and recommendations for personal protective equipment.

Eye: Have eye-wash stations available where eye contact can occur. Wear appropriate eye protection.

Skin: General cleaning is appropriate. A safety shower should be located in the work area.

Respiratory: Dust may irritate nose, throat, mucous membranes, and respiratory tract by mechanical abrasion. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Repeated excessive exposure may cause pneumoconiosis, such as silicosis and other respiratory effects. NIOSH approved respiratory protection should be worn if exposure limits are exceeded. A NIOSH approved respirator is generally acceptable for concentrations up to 10 times the PEL. Use a NIOSH approved air-supplied respirator for higher concentrations, unknown concentrations and for oxygen deficient atmospheres. Engineering controls are the preferred means for controlling exposures. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

Thermal: Not normally required.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Angular particle, grey or multicolored, ranging in size from sand to boulders.
Odor:	Odorless
Odor threshold:	None
pH:	Not applicable
Melting/ Freezing point/ range:	Not applicable
Initial Boiling point/ range:	Not applicable
Flash Point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	None
Upper/ lower flammability or explosive limits:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	2.5 - 2.8
Solubility in water:	Insoluble
Solubility in fats/ oils:	Insoluble
Partition Coefficient (n-octanol-water):	Insoluble
Autoignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Solid

10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable at ambient temperature and pressure.
Hazardous Reactions:	Will not occur
Conditions to Avoid:	Product is stable under normal conditions.
Incompatible Materials:	Powerful oxidizers: fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, hydrogen peroxide, etc.; acetylene; ammonia
Hazardous Decomposition Products	Hazardous crystalline silica dust may be generated by mechanical handling.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Breathing dust may have acute mechanical respiratory irritation.
Skin corrosion / irritation:	Avoid mechanical abrasion
Serious eye damage/ irritation	Dust may cause mechanical irritantation.
Respiratory or skin sensitization:	Not a sensitizer.
Germ cell mutagenicity:	Not toxic
Carcinogenicity:	Respirable crystalline silica: ACGIH: A2, Suspected Human Carcinogen; NTP: Known human carcinogen; IARC: Group 1, Carcinogenic to humans.
Reproductive toxicity:	Not toxic
STOT-single exposure:	None
STOT-repeated exposure:	Respirable crystalline silica has been associated with silicosis and lung cancer.



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Aspiration hazard: Not available
Other Information: Most likely exposure routes are inhalation, skin and eye contact. Excessive inhalation of crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis. Inhalation of air with a very high concentration of respirable silica dust can cause the most serious form of silicosis in a matter of months or a few years. There is some evidence that breathing crystalline silica is associated with an increased incidence of significant diseases such as scleroderma and kidney disease.

12. ECOLOGICAL INFORMATION

Toxicity: Not anticipated
Persistence and degradability: Persistent
Bioaccumulative potential: Not anticipated
Mobility in soil: Not anticipated
Other adverse effects: Granites are a ubiquitous part of the earth's continental crust.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Material is not characterized as hazardous. Dispose as indicated by local, state and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transportation.
Environmental Hazards: Not a marine pollutant
Bulk transport code: Not Applicable
USA Not regulated as hazardous by DOT regulations.
Canada Not regulated as hazardous by Canadian Transportation of Dangerous Goods Regulations
Europe Not regulated as hazardous by European Transportation of Dangerous Goods Regulations
IATA: Not regulated.

15. REGULATORY INFORMATION

Not subject to Montreal Protocol, Stockholm Convention, or Rotterdam Convention.

Region specific regulations

SARA Title III:

Section 302/304. Extremely Hazardous Substances - None.

Section 311/312. (40CFR370) Hazardous Categories: Not applicable

Section 313: Contains the following SARA 313 Toxic Release Chemicals. None.

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
Crystalline silica (quartz)	14808-60-7	NJ MA, MI, PA

EINECS & TSCA Components are listed.

CA65: Respirable crystalline silica is known to the State of California to cause cancer or reproductive toxicity
European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

EU Classification: Not classified.



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16. OTHER INFORMATION

Disclaimer: The information contained herein is accurate to the best of our knowledge. The information is given only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process.

Revision History:

Date Prepared: 03/01/2015, Revised to OSHA - GHS requirements.

By: Charles Leonard, CIH, ASLAN Group LLC

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