



## Safety Data Sheet

Revision Date: 07/14/2016

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### Section 1: Identification

**Product Names:**

- Washed Grits
- 1/4" Washed Clean Stone
- 3/8" Washed Clean Stone
- 3/4" Crushed Stone
- 1 1/2" Crushed Stone
- 2 1/2" Crushed Stone
- Quarry Process
- Rip Rap
- Washed Clean Stone Grits
- Washed Concrete Sand
- Washed Mason Sand
- Pipe Sand
- Pond Fill
- 3/4" Washed Clean Septic Stone
- Septic Fill
- Septic Bank Run
- Certified Clean Fill

**Common Names/Synonyms:** Granite Gneiss

**Recommended Use:** Construction Material  
**Restrictions on Use:** No Data

**Company:** Van Orden Sand & Gravel  
Ringwood Quarry  
589 Westbrook Road  
Ringwood, New Jersey 07456

**Telephone:** (973) 595-6250 (Only available during normal business hours.)

<b>Emergency Telephone Number:</b> (973) 445-7764
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### Section 2: Hazards Identification

**Emergency Overview:**

Danger: May cause cancer (contains silica). Causes silicosis through prolonged or repeated exposure.

**GHS Classification:**

Carcinogen, Category 1A

Specific Target Organ Toxicity, Repeated Exposure, Category 1

**GHS Label Elements:****Pictogram(s):**

**Signal Word:** Danger

**Hazard Statement(s):**

May cause cancer (contains silica).

Causes silicosis through prolonged or repeated exposure.

**Precautionary Statement(s):**

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

Wash thoroughly after handling.

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

Do not breathe dust or fume.

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

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention, if you feel unwell.

Dispose of contents/container in accordance with all applicable local, state and national regulations.

**Section 3: Composition/Information on Ingredients**

Chemical Ingredients:	Common Names/Synonyms	CAS Number:	Percent Range:
Granite	Not Applicable	Not Applicable	100%
<b>Granite composition varies naturally, but typically contains:</b>			
Silica, Crystalline Quartz	Quartz	14808-60-7	>1%
Ferric Oxide/ Ferrous Oxide	Iron Oxide Fume	1309-37-1/ 1345-25-1	0 – 10%
Aluminum Oxide	Alumina, Alpha-Aluminum (2:3), Aluminum Trioxide	1344-28-1	0 – 10%
Magnesium Oxide	Magnesia Fume, Maglite, Magox	1309-48-4	0 – 10%

**Section 4: First Aid Measures**

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

**Skin Contact:** Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Get medical advice/attention, if you feel unwell.

### Section 5: Fire Fighting Measures

**Suitable Extinguishing Media:** Granite is not flammable. Use extinguishing media compatible with surrounding fire.

**Specific Hazards in Case of Fire:** Silica reacts violently with powerful oxidizing agents yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing silicon tetrafluoride gas. Some components of granite may react vigorously with water.

**Special Protective Equipment for Fire-Fighters:** Wear a NIOSH approved self-contained breathing apparatus and full protective equipment.

### Section 6: Accidental Release Measures

**Personal Precautions:** Ventilate the area. Use personal protective equipment. Do not breathe dust or fume. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Wash thoroughly after handling.

**Environmental Precautions:** Avoid release to the environment. Prevent material from entering streams, drains, or sewers.

**Methods for Containment/Cleaning Up:** Prevent material from migrating off-site. Ventilate spill area. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Contain spill, and pick up.

### Section 7: Handling and Storage

**Handling:** Do not breathe dust or fume. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection/face protection. Do not eat, drink or smoke when using this product.

**Storage:** Store in a well-ventilated place. Do not store near food, beverages, or smoking materials.

### Section 8: Exposure Controls/Personal Protection

#### Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
Silica, Crystalline Quartz*	14808-60-7	Respirable: [(10 mg/m <sup>3</sup> ) / (%SiO <sub>2</sub> + 2)] Total: [(30 mg/m <sup>3</sup> ) / (%SiO <sub>2</sub> + 2)]	0.05 mg/m <sup>3</sup> TWA	0.025 mg/m <sup>3</sup> TWA

Silica, Crystalline Quartz**	14808-60-7	Respirable: 50 micrograms/m <sup>3</sup> Total: [(30 mg/m <sup>3</sup> ) / (%SiO <sub>2</sub> + 2)]	0.05 mg/m <sup>3</sup> TWA	0.025 mg/m <sup>3</sup> TWA
Ferric Oxide/ Ferrous Oxide	1309-37-1/ 1345-25-1	10 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA (respirable fraction)
Magnesium Oxide	1309-48-4	15 mg/m <sup>3</sup> TWA	No Established Limit	10 mg/m <sup>3</sup> TWA (inhalable fraction)
Aluminum Oxide	1344-28-1	15 mg/m <sup>3</sup> TWA (Total Dust); 5 mg/m <sup>3</sup> TWA (Respirable Fraction)	No Established Limit	1 mg/m <sup>3</sup> TWA (respirable fraction)

\* Before compliance with OSHA's Final Rule on Occupational Exposure to Respirable Crystalline Silica is required (i.e. before June 23, 2017 for construction; and before June 23, 2018 for general industry and maritime).

\* After compliance with OSHA's Final Rule on Occupational Exposure to Respirable Crystalline Silica is required (i.e. before June 23, 2017 for construction; and before June 23, 2018 for general industry and maritime).

**Engineering Controls:** Use only outdoors or in a well-ventilated area. Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels over applicable exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee work stations.

#### Personal Protective Equipment:

**Eye Protection:** Wear eye/face protection.

**Hand Protection:** Wear protective gloves.

**Skin and Body Protection:** Wear protective clothing.

**Respiratory Protection:** Do not breathe dust or fume. In case of inadequate ventilation, wear respiratory protection.

**Hygiene Measures:** Wash thoroughly after handling.

#### Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	Various Colors
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Applicable
<b>pH:</b>	Not Available
<b>Melting/Freezing Point:</b>	Not Applicable
<b>Initial Boiling Point:</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Applicable
<b>Flammability (solid, gas):</b>	Not Available
<b>Lower Explosive Limit:</b>	Not Applicable
<b>Upper Explosive Limit:</b>	Not Applicable
<b>Lower Flammability Limit:</b>	Not Applicable
<b>Upper Flammability Limit:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Applicable

<b>Vapor Density:</b>	Not Applicable
<b>Relative Density:</b>	Not Available
<b>Water Solubility:</b>	Not Available
<b>Partition Coefficient:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity:</b>	Not Applicable

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## Section 10: Stability and Reactivity

**Reactivity/Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Contact with strong oxidizers and hydrofluoric acid.

**Incompatible Materials:** Strong oxidizers and hydrofluoric acid. Some components of granite may react vigorously with water.

**Hazardous Decomposition Products:** Silica reacts violently with powerful oxidizing agents yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing silicon tetrafluoride gas. Some components of granite may react vigorously with water.

**Hazardous Polymerization:** Will not occur.

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## Section 11: Toxicological Information

**Inhalation:** Causes silicosis through prolonged or repeated exposure. May cause cancer (contains silica).

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Chronic Exposure:** Causes silicosis through prolonged or repeated exposure. May cause cancer (contains silica).

**Aggravation of Pre-existing Conditions:** Exposure may aggravate pre-existing respiratory illness/disorders.

**Numerical Measures of Toxicity:** None available

**Carcinogenicity:** This material contains silica (crystalline quartz), which is classified by NTP as Known to be a human carcinogen; and by IARC as Group 1 (Carcinogenic to Humans).

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## Section 12: Ecological Information

Release into waters may increase particulates in the water. Avoid release to the environment. Collect spillage.

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## Section 13: Disposal Considerations

Dispose of material in accordance with all applicable local, state and national regulations.

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#### Section 14: Transport Information

**US DOT:**

Not classified as a hazardous material by US DOT.

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#### Section 15: Regulatory Information

**US Regulatory Information:**

**SARA 302:** None/no reportable quantities

**SARA 311/312 Hazard Categories:** Chronic Health Hazard

**SARA 313:** Aluminum Oxide (CAS #1344-28-1) is subject to SARA 313 reporting requirements.

**TSCA:** All substances in this product are listed on the TSCA inventory.

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#### Section 16: Other Information

The information contained in this SDS is presented in good faith and believed to be accurate based on the information provided. The SDS does not purport to be all inclusive, and shall be used only as a guide. While Braen Stone/Van Orden Sand & Gravel believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which Braen Stone/Van Orden Sand & Gravel assumes legal responsibility. Braen Stone/Van Orden Sand & Gravel shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond Braen Stone/Van Orden Sand & Gravel control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

**Legend:**

**ACGIH:** American Conference of Governmental & Industrial Hygienists

**CAS:** Chemical Abstract Service

**CFR:** Code of Federal Regulations

**DOT:** Department of Transportation

**GHS:** Globally Harmonized System of Chemical Classification and Labelling

**IARC:** International Agency for the Research of Cancer

**IATA:** International Air Traffic Association

**IDLH:** Immediately Dangerous to Life or Health

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organizations

**LC50:** Median Lethal Concentration

**LD50:** Median Lethal Dose

**NIOSH:** National Institute of Occupational Safety and Health

**NFPA:** National Fire Protection Association

**NTP:** National Toxicology Program

**OSHA:** Occupational Safety & Health Administration  
**PEL:** Permissible Exposure Limits  
**PPM:** Parts Per Million  
**RCRA:** Resource Conservation & Recovery Act  
**REL:** Recommended Exposure Limits  
**RQ:** Reportable Quantity  
**RTK:** Right-To-Know  
**SARA:** Superfund Amendments & Reauthorization Act  
**STEL:** Short Term Exposure Limit  
**TLV:** Threshold Limit Value  
**TSCA:** Toxic Substances Control Act  
**TWA:** Time Weighted Average  
**TCLP:** Toxicity Characteristic Leaching Procedure  
**US:** United States  
**VOC:** Volatile Organic Compounds

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**Prepared By:** LAN Associates, Engineering, Planning, Architecture, Surveying, Inc.

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