

Oscar Brugmann

Since
1929

Sand & Gravel INC.

3828 Dudley Rd.
Mantua, OH 44255

MSDS

Material Safety Data Sheet

Product Name:

NATURAL SAND AND GRAVEL

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Supplier

Name: Oscar Brugmann Sand & Gravel, Inc
Address: 3828 Dudley Rd.
Mantua, OH 44255
Telephone: (330)274-8224

Product Identifier

Sand and Gravel, Natural Sand, River Sand Screenings, Aggregates, Crushed Stone, Crushed Granite, Sandstone, Agate, Feldspar Flint, Shale, Chalcedony, Quartz, Diatomaceous Earth

Note: This MSDS covers many products. Individual composition of hazardous constituents will vary

WHMIS Classification: D2A

Emergency Telephone Numbers

Health & Transportation: CHEMTREC 800-424-9300 or 703-527-3887

2. INFORMATION ON COMPONENTS

Component Name	%	CAS No.
Crystalline Silica	0-98	14808-60-7
Amorphous Silica, Hydrated	0-50	7631-86-9
Calcium Carbonate	0-30	1317-65-3
Mica	0-15	12001-26-2
Aluminum Silicates (Feldspar)	0-15	1302-76-7
Magnesium Carbonate	0-15	546-93-0

Component Name	EXPOSURE LIMITS	
	OSHA PEL TWA	ACGIH TLV TWA
Crystalline Silica Quartz		
Quartz (Respirable)	10mg/m ³ /(%SiO ₂ +2)	
Quartz (Total Dust)	30mg/m ³ /(%SiO ₂ +2)	0.05 mg/m ³
*Amorphous Silica, Hydrated	80mg/m ³ /%SiO ₂	
(Respirable Particulate)		3 mg/m ³
(Inhalable Particulate)		10mg/m ³
Calcium Carbonate		
(Respirable Dust)	5 mg/m ³	
(Total Dust)	15 mg/m ³	10 mg/m ³
Mica		
(Respirable Dust)	20 mppcf	3 mg/m ³
Aluminum Silicates, Feldspar		2 mg(Al)/m ³
Magnesium Carbonate		
Nuisance Dust		
(Respirable)	5 mg/m ³	3 mg/m ³
(Total Inhalable)	15 mg/m ³	10 mg/m ³

* This value is for particulate matter containing no asbestos and <1% crystalline silica

3. HAZARD IDENTIFICATION

Emergency Overview

Solid; light grey/brown/odorless

Potential Health Effects

INHALATION (acute): Breathing dust may cause nose, throat, or lung irritation and choking. The described effect depends on the degree of exposure.

INHALATION (chronic): Prolonged or repeated exposure may cause lung injury including silicosis. This product may contain crystalline silica. Crystalline silica has been classified by IARC as a known human carcinogen. Some human studies indicate potential for lung cancer from crystalline silica exposure. Risk of injury depends on duration and level of exposure. Long term exposures which result in silicosis may result in additional health effects.

EYE CONTACT (acute/chronic): May cause eye irritation, burns and damage to cornea.

SKIN CONTACT (acute/chronic): May cause dry skin, redness, discomfort, and irritation. Thickening of skin (scleroderma) may be associated with exposure to high levels of crystalline silica.

INGESTION (acute/chronic): Ingestion of large amounts may cause intestinal distress.

4. FIRST AID MEASURES

INHALATION: Move person to fresh air. Seek medical attention for discomfort.

EYE CONTACT: Rinse thoroughly with water. Seek medical attention for abrasions

SKIN CONTACT: Wash with soap and water. Use moisturizing creams for irritated skin. Seek medical attention for burns.

INGESTION: Do not induce vomiting, but drink plenty of water. Seek medical attention for discomfort.

5. FIREFIGHTING MEASURES

Flashpoint and Method: None

Flammable Limits: Not combustible

Autoignition Temperature: None

General Hazard: Avoid breathing dust

Firefighting Instructions: Treat adjacent material

Firefighting Equipment: This product is not fire hazard. Self contained breathing apparatus is recommended to limit exposures to smoke from any combustion source.

Hazardous Combustion Products: None

6. ACCIDENTAL RELEASE MEASURES

General: Wind blown dust may cause the hazards identified in Section 3. Remove spilled material to limit potential harm.

Land Spill: Clean up spilled material.

Water Spill: Clean up spilled material.

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7. HANDLING AND STORAGE

General: Avoid accidental release

Storage Temperature: Unlimited

Storage Pressure: Unlimited

Empty Containers: Dispose of containers in an approved landfill or incinerator

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Engineering Controls

Use exhaust ventilation to maintain dust levels below exposure limits in workplaces with poor ventilation and dusty conditions.

Personal Protection

RESPIRATORY PROTECTION: Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator when exposed to dust above exposure limits.

EYE PROTECTION: Wear glasses or safety goggles to prevent contact with eyes. Wearing contact lenses when using this product under dusty conditions is not recommended.

SKIN PROTECTION: Wear impervious gloves, shoes, and protective clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not measurable
Vapor Density:	Not measurable
Specific Gravity:	2.6-2.8
Solubility in Water:	Negligible
Evaporation Rate:	Not measurable
pH (in water):	Neutral
Boiling Point:	>1000° C
Freezing Point:	None, solid
Viscosity:	None, solid

10. STABILITY AND REACTIVITY

General: Product is stable.

Incompatible Materials and Conditions to Avoid: Dissolves in hydrofluoric acid producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, chlorine trifluoride and oxygen difluoride.

Hazardous Decomposition: None, solid.

11. MSDS PREPARATION & TOXICOLOGICAL INFORMATION

For detailed toxicological information contact:

Environment, Health & Safety and Public Affairs
Oscar Brugmann Sand & Gravel, Inc.
3828 Dudley Rd
Mantua, OH 44255
330-274-8224

12. ECOLOGICAL INFORMATION

For detailed ecological information: See Section 11 above.

13. DISPOSAL CONSIDERATIONS

Dispose in landfill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, provincial, state and federal laws and regulations. Contact local environmental agency for specific rules.

14. REQUIRED TRANSPORT INFORMATION

Not a hazardous material for DOT or TDG shipping.

15. REGULATORY INFORMATION

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.

OSHA Hazard Communication Rule, 29 CFR 1910, 1200:

Some constituents identified in this product is considered by OSHA to be hazardous and should be included in the employer's hazard communication program.

CERCLA/SUPERFUND, 40 CFR 117, 302.:

Not listed

SARA TITLE III, Sections 311-312 Hazard Category:

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.

SARA Section 313 Information:

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Toxic Substance Control Act (TSCA)

Some constituents identified in this product are listed on the TSCA Inventory.

California Proposition 65:

CRYSTALLINE SILICA (CAS-14808-60-7) is considered to be a carcinogen by the state of California.

WHMIS Information

This product contains substances considered to be hazardous by Health Canada and is a controlled product. Consult local authorities for acceptable exposure limits. WHMIS Information—613-957-2342

16. OTHER INFORMATION

Abbreviations:

CAS No
OSHA
PEL
ACGIH

TLV
TWA
CL
mg/m³
IARC
NIOSH
pH
>
DOT
TDG
CFR
CERCLA
SARA
WHMIS

Chemical Abstract Service number
Occupational Safety and Health Administration
Permissible Exposure Limit
American Conference of Governmental Industrial Hygienists
Threshold Limit Value
Time Weighted Average (8 hour)
Ceiling limit
milligrams per cubic meter
International Agency for Research on Cancer
National Institute for Occupational Safety and Health
negative log of hydrogen ion
greater than
U.S. Department of Transportation
Transportation of Dangerous Goods
Code of Federal Regulations
Comprehensive Environmental Response, Compensation and Liability Act
Superfund Amendments and Reauthorization Act
Workplace Hazardous Materials Information System

Information in the MSDS is believed to be current and accurate at the time provided. It is the user's obligation to determine the conditions of safe use of this product.