

**M A T E R I A L   S A F E T Y   D A T A   S H E E T**

**Identity:** Sand & Gravel Products

**SECTION I**

<b>Manufacturer's Name:</b> Eagle Harbor Sand & Gravel, Inc.	<b>Emergency Telephone Number:</b> (716) 798-4501 or 798-0215
<b>Address:</b>  10830 Blair Road Medina, New York 14103	<b>Telephone Number for Information:</b> (716) 798-4501 or 798-0215
	<b>Signature of Preparer:</b>  <i>Saul A. Duggo</i>

**SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components (Specific Chemical Identity: Common Name[s])	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Sand & Gravel	(Total Dust)-- 15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (Nuisance Dust)	-	*
Rounded Naturally Occurring Quartz Grains (Free Silica, SiO <sub>2</sub> ) contained in the sand & gravel	(Total Dust)-- 30 mg/m <sup>3</sup> $\frac{\%SiO_2 + 2}{100}$ (Respirable Dust)-- 10 mg/m <sup>3</sup> $\frac{\%SiO_2 + 2}{100}$	0.1 mg/m <sup>3</sup> (Respirable Dust)	-	*

\* The quartz content varies naturally but is generally greater than 1%. The OSHA exposure limits are calculated using the formulas given above.

**SECTION III -- PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	2.6 - 2.7
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A

**Solubility in Water:** Insoluble

**Appearance and Odor:** Rounded to angular, tan to gray particles ranging in size from dust to cobbles in size. Odorless.

**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (Method Used)</b> Not flammable	<b>Flammable Limits</b> Not flammable	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media:</b> None required			
<b>Special Fire Fighting Procedures:</b> None required			
<b>Unusual Fire and Explosion Hazards:</b> None			

**SECTION V -- REACTIVITY DATA**

<b>Stability</b>			<b>Conditions to Avoid:</b>
	<b>Unstable</b>		
	<b>Stable</b>	X	None known
<b>Incompatibility (Materials to Avoid):</b> Hydrofluoric acid			
<b>Hazardous Decomposition or Byproducts:</b> Silicon tetrafluoride (SiF <sub>2</sub> ), a corrosive gas, forms when silica reacts with hydrofluoric acid.			

<b>Hazardous Polymerization</b>			<b>Conditions to Avoid:</b>
	<b>May Occur</b>		
	<b>Will Not Occur</b>	X	None

**SECTION VI -- HEALTH HAZARD DATA**

<b>Route(s) of Entry:</b> Inhalation? Yes	Skin? No	Ingestion? No
<b>Health Hazards:</b> Crushing or handling may result in release of dust particles which may cause: 1) Acute -- exposure can cause irritation to eyes and nose. Inhalation can irritate nose, throat, lungs, cause coughing, shortness of breath. 2) Chronic -- prolonged exposure to excessive amounts of silica may result in lung disease (silicosis).		
<b>Carcinogenicity:</b> NTP? No	IARC Monographs? *	OSHA Regulated? *
<b>Signs and Symptoms of Exposure:</b> Irritation of eyes and nose, shortness of breath, difficulty breathing with or without exertion, coughing, diminished work capacity, diminished chest expansion, reduced lung volume, right heart enlargement/failure.		
<b>Medical Conditions Generally Aggravated by Exposure:</b> Pre-existing lung diseases such as emphysema or asthma.		

\* See notes on page 4.

**Emergency and First Aid Procedures:** Eye contact: rinse with water for 15 minutes, occasionally lifting upper and lower eyelids. Consult physician if irritation persists. Skin contact: people with skin conditions should remove dust promptly with soap and water. Consult physician if irritation persists. Inhalation: remove to fresh air; if breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Obtain medical attention immediately.

**SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps to be Taken in Case Material is Released or Spilled:** Sweep up and discard. Dust generation can be reduced by wetting down prior to sweeping up.

**Waste Disposal Method:** Clean materials can be reused. Dispose waste materials in accordance with federal, state and local law and regulations.

**Precautions to be Taken in Handling and Storing:** Avoid breathing dust. Use proper dust control measures such as ventilation, wetting and enclosure of materials. Respirable dust should be monitored regularly.

**Other Precautions:** Wear NIOSH or MSHA approved respirator and tight fitting goggles when grinding or crushing stone.

**SECTION VIII -- CONTROL MEASURES**

**Respiratory Protection (Specify Type):** NIOSH/MSHA approved dust mask.

<b>Ventilation</b>	<b>Local Exhaust:</b> Provide ventilation to maintain exposure below TLV.	<b>Special:</b> N/A
	<b>Mechanical (General):</b> Wet suppression of dust.	<b>Other:</b> N/A

**Protective Gloves:** Recommended

**Eye Protection:** Tight fitting goggles

**Other Protective Clothing or Equipment:** Coveralls recommended.

**Work/Hygienic Practices:** Remove dust from exposed skin with soap and water.

\* Sand & Gravel is not on the NTP, IARC or OSHA lists of carcinogens. Quartz (crystalline silica, SiO<sub>2</sub>) is listed by IARC as carcinogenic to certain experimental animals (rats, but, not mice or hamsters). The finding of carcinogenicity in experimental animals may in some cases be indicative of potential human effects but IARC has determined that the carcinogenicity of crystalline silica to humans is neither certain nor proven. IARC also did not conclude that the available studies present sufficient evidence to consider silica to be carcinogenic to humans. However, it is recommended that precautions be taken against excessive exposure to silica dusts, especially because of the potential for development of silicosis.

The information in this Materials Safety Data Sheet concerning Health Hazard Data was obtained from sources believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness. Once the products leave the Carter Sand & Gravel plant, the conditions or methods of handling, storage, use and disposal of the products are beyond Carter Sand & Gravel's control and may be beyond their knowledge. For this and other reasons, Carter Sand & Gravel, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense.

#### Abbreviations Used in Material Safety Data Sheet

Mg/m<sup>3</sup> = Milligrams (dust) per cubic meter (air).

mmHg = millimeter of mercury (a measure of vapor pressure).

OSHA PEL = Occupational Safety and Health Administration  
Permissible Exposure Level.

ACGIH TLV = American Conference of Governmental Industrial  
Hygienists Threshold Limit Value.

LEL = Lower explosive limit of a vapor or gas.

UEL = Upper explosive limit of a vapor or gas.

NTP = National Toxicology Program.

IARC = International Agency for Research on Cancer of the World  
Health Organization.

NIOSH = National Institute for Occupational Safety and Hazard.

MSHA = Mine Safety and Health Administration.