

# MATERIAL SAFETY DATA SHEET

Mulzer Crushed Stone, Inc.	6th & Mozart Streets P.O. Box 249	Tell City, IN 47586 Phone	(812) 547-7921
	I - INDENTIFICATION		
CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT	-
Natural Sand or Gravel	Not Applicable	Not Applicable	
TRADE NAME			
Sand or Gravel			
SYNONYMS		DOT IDENTIFICATION	NO.
		None	

II - PRODUCT AND COMPONENT DATA				
COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.	%(Approx)	ACGIH TLV -TWA	
Natural Sand* or Gravel*	None	100	See Section VI	
*Quartz (crystalline silica) content typically greater than 1%	14808-60-7			

III - PHYSICAL DATA		
APPEARANCE AND ODOR	SPECIFIC GRAVITY	
Angular or round multicolored particles.		
No odor.	2.55 - 2.80	
BOILING POINT	VAPOR DENSITY IN AIR (Air = 1)	
Not applicable	Not Applicable	
VAPOR PRESSURE	% VOLATILE BY VOLUME	
0	0%	
EVAPORATION RATE	SOLUBILITY IN WATER	
0	Negligible	

IV - REACTIVITY DATA		
STABILITY	CONDITIONS TO AVOID	
Stable	None Known	
INCOMPATIBILITY (Materi	als to avoid)	
None Known		
HAZARDOUS DECOMPO	SITION PRODUCTS	
None Known		
HAZARDOUS POLYMERI	ZATION	
Will not occur		

# **V - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (Method Used) FLA		FLAMMABLE LIMITS IN AIR			
	Not Flammable Not Flammable				
EXTINGUISH	EXTINGUISHING AGENTS				
	None Required				
UNUSUAL FI	RE AND EXPLOSION HAZARDS				
	None Known				
	VI - TOXICITY AN	D FIRST AID			
EXPOSURE	LIMITS (When exposure to this product and other chemicals is co	ncurrent, the TLV must be defined in the workplace.)			
	Exposure limits vary with the % Quartz in dust. All limits for 8-hr	. TWA exposures.			
	Total Dust (ACGIH & MSHA) = 30mg/M <sup>3</sup> / (%Quartz+3); Total D				
	Respirable Dust (ACGIH, MSHA, & OSHA) + 10mg/M <sup>3</sup> / (%Qua				
Effects descri	bed in this section are believed not to occur if exposures are main	tained at or below appropriate TLVs.			
Because of th	e wide variation in individual susceptibility, TLVs may not be applie	cable to all persons and those with medical conditions			
listed below.					
MEDICAL CO	ONDITIONS AGGRAVATED BY EXPOSURE				
	Inhaling respirable dust may aggravate existing respiratory syste	m disease(s) and/or dysfunctions.			
	Exposure to dust may aggravate existing skin and/or eye condition	ns.			
ACUTE TOX	ICITY Primary route(s) of exposure. X Inhalation	_ Skin Absorption _ Ingestion			
	Exposure to dust may irritate respiratory system, eyes, and skin.				
	Use of natural sand and gravel for construction purposes is belie	ved not to have caused acute toxic effects.			
	Exposure to quartz-containing dust in excess of appropriate TLV				
	has caused acute silicosis. Symptoms of acute silicosis may inc				
	coughing, fever, and weight loss. Acute silicosis can occur in les	s than one year and can be fatal.			
FIRST AID					
	Dust is succe. Fluck succe with supplies water for 15 minutes. Co	ntest a numerician if initation paraista			
	Dust in eyes: Flush eyes with running water for 15 minutes. Co	ntact a physician ir initation persists.			
	Dust on previously irritated skin: Wash with soap and water. Co	intact a physician if irritation is addravated			
	Dust on previously initiated skin. Wash with soap and water. Co	niadi a physician in initation is aggravateu.			
	Dust inhalation: Remove to fresh air.				
	Dust in throat and nasal pasages should clear spontaneously. Contact a physician if irritation persists.				

Chronic exposure to respirable quartz-containing limestone dust in excess of appropriate TLVs has caused silicosis, a progressive pneumoconiosis.

Symptoms of Silicosis: Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis is progressive, and symptoms can appear at any time, even years after exposures have ceased. Symptoms of silicosis may include (but are not limited to): Shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

Sand and gravel are not listed as carcinogens on the NTP, IARC, or OSHA lists of carcinogens.

#### **VII - PERSONAL PROTECTION AND CONTROLS**

RESPIRATORY PROTECTION
NIOSH-MSHA approved dust respirators for conditions where dust levels exceed or are likely to exceed appropriate
TLVs. Respirator use must comply with applicable standards, which include provisions for a
user training program, respirator repair and cleaning, respirator fit testing, and other requirements.
NIOSH-MSHA approved air-supplied hood must be used when sandblasting
VENTILATION
Local exhaust or general ventilation adequate to maintain exposures below appropriate TLVs.
SKIN PROTECTION
See "Hygiene" section below
EYE PROTECTION
Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively
(visible) dusty conditions are present or are anticipated.
HYGIENE
Wash dust-exposed skin with soap and water. Wash work clothes after each use.
OTHER CONTROL MEASURES
Respirable dust levels should be monitored regularly. Dust levels in excess of appropriate TLVs should be reduced
by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and
enclosed employee work stations.

### **VIII - STORAGE AND HANDLING INSTRUCTIONS**

Respirable dust may be generated during processing, handling, and storage. The controls identified in Section VII of the MSDS should be applied as appropriate.

This product is not recommended and should not be used for sandblasting, nor in foundry operations (or other operations during which dust is generated in excess of appropriate TLVs) unless and until fully adequate measures have been taken to reduce dust exposure levels below appropriate TLVs. The controls identified in Section VII of this MSDS should be applied as appropriate.

## IX - SPILL LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spilled materials, where dust can be generated, may overexpose cleanup personnel to respirable dust. Wetting of spilled material and/or use of respiratory protective equipment may be necessary.

WASTE DISPOSAL METHOD

Pickup and reuse clean materials. Dispose of waste materials only in accordance with applicable federal, state, and local laws and regulations.

#### **X - TRANSPORTATION**

DOT HAZARD CLASSIFICATION

None

PLACARD REQUIRED

None

LABEL REQUIRED

Label as required by applicable state and local regulations.

For Futher Information:

Contact Gene Hurm 812-547-7921

Mulzer Crushed Stone, Inc. P. O. Box 249 Tell City, IN 47586 Gene Hurm - Safety Director

Date of Preparation

11/18/99

NOTICE: Company believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures

are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules, or insurance

requirements.

NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE.