



MATERIAL SAFETY DATA SHEET

I - IDENTIFICATION		
CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Limestone	Not Applicable	Not Applicable
TRADE NAME		
Crushed Stone		
SYNONYMS		DOT IDENTIFICATION NUMBER
Aggregate, Aglime, Fluxing Agent, Manufactured Sand		None

II - PRODUCT AND COMPONENT DATA			
COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.	% (Approx.)	ACGIH TLV-TWA
Limestone*	1317-65-3*	100	See Section VI
*Composition Varies Naturally - May Contain Quartz			
	* EPA TSCA Inventory (Same CAS No. As Calcium Carbonate)		

III - PHYSICAL DATA	
APPEARANCE AND ODOR Angular grey, white and tan particles ranging in size from powder to boulders. No odor.	SPECIFIC GRAVITY 2.6 - 2.75
BOILING POINT Not applicable	VAPOR DENSITY IN AIR Not applicable
VAPOR PRESSURE Not applicable	% VOLATILE BY VOLUME 0%
EVAPORATE RATE 0	SOLUBILITY IN WATER 0

IV - REACTIVITY DATA	
STABILITY Stable	CONDITIONS TO AVOID None Known
INCOMPATIBILITY (Materials to avoid) None Known	
HAZARDOUS DECOMPOSITION PRODUCTS None Known	
HAZARDOUS POLYMERIZATION None Known	

V - FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT (Method used)	FLAMMABLE LIMITS IN AIR
Not Flammable	Not Flammable
EXTINGUISHING AGENTS	
None Required	
UNUSUAL FIRE AND EXPLOSION HAZARDS	
None Known	

VI - TOXICITY AND FIRST AID	
EXPOSURE LIMITS <i>(When exposure to this product and other chemicals is concurrent, the TLV must be defined in the workplace)</i>	
<p>Exposure limits vary with the % Quartz in dust. All limits for 8-hr. TWAs in mg/m³.</p> <p>Dust < 1% Quartz: Total (AOGIH & MSHA) = 10 (OSHA=15); Respirable (AOGIH, MSHA, & OSHA) = 5</p> <p>Dust ≥ 1% Quartz: Total (AOGIH & MSHA) = 30 / (% Quartz+3); Total (OSHA) = 30 / (% Quartz + 2)</p> <p style="padding-left: 40px;">Respirable (AOGIH, MSHA, & OSHA) = 10 / (% Quartz +2)</p>	
<p><i>Effects described in this section are believed not to occur if exposures are maintained at or below TLVs.</i></p> <p><i>Because of the wide variation in individual susceptibility, TLV's may not be applicable to all persons and those with medical conditions listed below.</i></p>	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	
<p>Inhaling respirable dust may aggravate existing respiratory system disease(s) and or dysfunctions.</p> <p>Exposure to dust may aggravate existing skin and/or eye conditions.</p>	
ACUTE TOXICITY	Primary route(s) of exposure:
	<input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Ingestion
<p>Exposure to dust may irritate respiratory system eyes, and skin.</p>	
FIRST AID	
<u>Dust in eyes:</u>	Flush eyes with running water for 15 minutes. Contact a physician if irritation persists.
<u>Dust on previously irritated skin:</u>	Wash with soap and water. Contact a physician if irritation is aggravated.
<u>Dust Inhalation:</u>	Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists.

CHRONIC TOXICITY

Chronic exposure to respirable limestone dust in excess of appropriate TLVs has caused pneumoconiosis (dusty lungs).

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 of breathing 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.

Limestone is not listed as a carcinogen on the NIP, 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 exposure limits. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements.

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 in 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 PRECAUTIONS

Respirable dust may be generated during processing, handling, and storage. The controls identified in Section VII of the 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 materials and/or use of respiratory protective equipment may be necessary.

WASTE DISPOSAL METHOD

Pickup and reuse clean material. 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 is required by applicable state and local regulations.

For Further information

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Notice: Stoneco of Michigan 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

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