

MATERIAL SAFETY DATA SHEET

I-IDENTIFICATION

<i>CHEMICAL NAME</i> Limestone	<i>CHEMICAL FORMULA</i> Not Applicable	<i>MOLECULAR WEIGHT</i> Not Applicable
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TRADE NAME
Crushed Stone

<i>SYNONYMS</i> Aggregate, Aglime, Coverstone, Fluxing, Agent, Flexible Base, Manufactured Sand, Screenings	<i>DOT IDENTIFICATION NO.</i> None
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II- PRODUCT AND COMPONENT DATA

<i>COMPONENT(S)</i>	<i>CHEMICAL NAME</i>	<i>CAS REGISTRY NO.</i>	<i>%(APPROX.)</i>	<i>ACGIH TLV-TWA</i>
Limestone		1317-65-3	100	(Section IV)
Composition varies naturally typically contains quartz (crystalline silica)		14808-60-7	>1	

III- PHYSICAL DATA

<i>APPEARANCE AND ODOR</i> Angular grey, white and tan particles ranging in size from powder to boulders. No odor.	<i>SPECIFIC GRAVITY</i> 2.6-2.75
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BOILING POINT
Not Applicable

<i>VAPOR DENSITY IN AIR (AIR=1)</i> Not Applicable

VAPOR PRESSURE
Not Applicable

<i>% VOLATILE, BY VOLUME</i> 0%

EVAPORATION RATE
0

<i>SOLUBILITY IN WATER</i> 0

IV- REACTIVITY DATA

STABILITY

Stable

CONDITIONS TO AVOID

None Known

INCOMPATIBILITY (MATERIALS TO AVOID)

None Known

HAZARDOUS DECOMPOSITION PRODUCTS

None Known

HAZARDOUS POLYMERIZATION

Not known to polymerize

V- FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT

Not flammable

FLAMMABLE LIMITS IN AIR

Not flammable

EXTINGUISHING AGENTS

None Required

UNUSUAL FIRE AND EXPLOSION HAZARDS

None Known

VI- TOXICITY AND FIRST AID

EXPOSURE LIMITS (when exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace)

Exposure limits are expressed as milligrams of substance per cubic meter of air (mg/M to the third power). 8-hour time-weighted averages. Respirable dust exposure limits vary with the % quartz in dust.

Dust<1% Quartz: Total: ACGIH & MSHA=10, OSHA=15
Respirable: MSHA & OSHA=5

Dust>/=1% Quartz Total: MSHA=30 (%quartz+3). OSHA=30 (%quartz+2)
Respirable: MSHA & OSHA=10(%quartz+2)

Respirable Quartz: ACGIH=0.1 mg quartz/M to the third power

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs. Because of the wide variation in individual susceptibility, these exposure limits may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions. Exposure to dust may aggravate existing skin and/or eye conditions.

ACUTE TOXICITY

Primary route(s) of exposure: inhalation skin absorption ingestion

Exposure to dust may irritate respiratory system, eyes and skin.

FIRST AID

Dust in eyes: Flush eyes with running water for 15 minutes. Contact a physician if irritation persists or later develops.

Dust on previously irritated skin: Wash with soap and water. Contact a physician if irritation is aggravated.

Dust inhalation: Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

CHRONIC TOXICITY

Chronic exposure to respirable limestone dust in excess of appropriate exposure limits has caused pneumoconiosis (lung disease).

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

Chronic tobacco smoking may further increase the risk of developing chronic lung problems.

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.

Limestone is not listed on the NTP, IARC or OSHA list of carcinogens. Crystalline silica, a component of this product, is listed by IARC but not by NTP or OSHA. IARC has determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a casual relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded.

VII- PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

NIOSH-MSHA approved dust respirators for conditions where the dust levels exceed or are likely to exceed appropriate exposure limits. Respirators 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 exposure limits.

SKIN PROTECTION

See "Hygiene" section below.

EYE PROTECTION

Safety glasses with 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 and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits 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

The controls identified in Section VII of the MSDS should be applied as appropriate. 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. Avoid dry sweeping.

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 the OSHA Hazard Communication standard [29 CFR 1910.1200 (f)] and applicable state and local regulations.