

Material Safety Data Sheet



| I – PRODUCT IDENTIFICATION | |
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| MANUFACTURER: Lone Star Aggregates, LLC A Subsidiary of Fred Weber, Inc. | PRODUCT NAME: Crushed Limestone (Rip-rap) (Aggregate) |
| ADDRESS: 7329 SWCR 0030 Richland, TX 76681 | DATE OF REVISION: June 24, 2009 |
| INFORMATIONAL TELEPHONE: | 903-362-3334 |

| II – PRODUCT AND COMPONENT DATA | | | |
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| COMPONENT NAME | CAS REGISTRY NO. | % (APPROX.) | EXPOSURE LIMITS |
| Limestone (composition variable) | Mixture | | See Section VI |
| Calcium Carbonate (CaCO ₃) | 1317-65-3 | >90% | |
| Silica (SiO ₂) | 14808-60-7 | 5-10% | |
| Other Oxides (Al ₂ O ₃ , Fe ₂ O ₃ , etc) | | <5% | |

| III – PHYSICAL DATA | | | |
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| BOILING POINT: | N/A | SPECIFIC GRAVITY: | 2.6-2.7 |
| VAPOR PRESSURE: | N/A | VAPOR DENSITY: | N/A |
| SOLUBILITY IN WATER: | Minimal (at low pH values) | % VOLATILE BY VOLUME AT 68°F: | 0% |
| APPEARANCE AND ODOR: | Angular gray, white, or tan particles ranging in size from powder to boulder. No odor. | | |

| IV – FIRE AND EXPLOSION HAZARD DATA | | | |
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| FLASH POINT: | Not Flammable | METHOD USED: | N/A |
| LOWER FLAMMABLE LIMIT: | Not Flammable | UPPER FLAMMABLE LIMIT: | Not Flammable |
| EXTINGUISHING MEDIA: | None required | | |
| SPECIAL FIRE FIGHTING PROCEDURES: | None required | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | Contact with strong oxidizing agents may cause fire and/or explosion. | | |

| V – REACTIVITY DATA | | | |
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| STABILITY: | Stable | CONDITIONS TO AVOID: | Avoid incompatible materials (below) |
| INCOMPATIBILITY: | Contact with powerful oxidizing agents such as fluorine, boron trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosion. Silica dissolves in hydrofluoric acid, producing a corrosive gas: silicon tetrafluoride. | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: | High silica content limestone may produce silica-containing respirable dust particles. | | |

VI – HEALTH HAZARD / FIRST AID INFORMATION

PRIMARY ROUTES OF ENTRY: INHALATION X SKIN INGESTION EYES

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| <p>EXPOSURE LIMITS: (expressed in 8-hour time-weighted averages-TWA)</p> | <p>Limestone (CaCO₃): TLV = 10 mg/m³ ; OSHA PEL_{TOTAL}=15 mg/m³; OSHA PEL_{RESPIRABLE}= 5 mg/m³ Respirable Silica: TLV=0.025 mg/m³; MSHA/OSHA PEL=10 mg/m³ /(%SiO₂ +2) <i>At 5% SiO₂, the MSHA/OSHA PEL = 4.9 mg/m³</i></p> |
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| <p>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:</p> | <p>Inhaling respirable dust or crystalline silica may aggravate existing respiratory system diseases/dysfunctions. Exposure to dust may aggravate existing skin and/or eye conditions.</p> |
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SHORT-TERM (ACUTE) HEALTH EFFECTS:

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| <p>INGESTION:</p> | <p>Practically non-toxic. However, ingestion of large amounts may cause gastrointestinal irritation and blockage.</p> |
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| <p>TREATMENT:</p> | <p>If conscious, give large quantity of water and induce vomiting. NEVER MAKE AN UNCONSCIOUS PERSON DRINK OR VOMIT. Get immediate medical attention.</p> |
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| <p>EYES:</p> | <p>Direct contact with dust may cause irritation by mechanical abrasion.</p> |
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| <p>TREATMENT:</p> | <p>Flush eyes with plenty of clean water for at least 15 minutes, while holding lid open. Occasionally lift lids to ensure thorough rinsing. Contact physician if irritation persists or later develops.</p> |
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| <p>SKIN:</p> | <p>Direct contact may cause irritation by mechanical abrasion. Not expected to absorb through dermal contact.</p> |
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| <p>TREATMENT:</p> | <p>Wash with soap and water. Contact a physician if irritation persists or later develops.</p> |
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| <p>INHALATION:</p> | <p>Dusts may irritate nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of exposure limits.</p> |
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| <p>TREATMENT:</p> | <p><i>Use of limestone for construction purposes is not believed to cause additional acute effects, however, repeated overexposure to very high levels of respirable silica over as little as 6 months has caused acute silicosis, a rapidly progressive, incurable, typically fatal lung disease. Symptoms may include shortness of breath, cough, fever, weight loss, and chest pain.</i></p> |
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| <p>TREATMENT:</p> | <p>Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.</p> |
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LONG-TERM (CHRONIC) HEALTH EFFECTS:

Limestone is not listed as a carcinogen by IARC, NTP or OSHA.

However, prolonged and repeated exposure to respirable crystalline silica-containing dust can cause silicosis, a lung disease, which can increase risks of pulmonary tuberculosis infection. Silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Symptoms may include, but not limited to, shortness of breath, difficulty breathing, coughing, diminished work capacity, diminished chest expansion, reduction of lung volume, and right heart enlargement or failure. Smoking may increase risk of developing lung disorders.

Research also shows there may be associations between excessive crystalline silica exposure and adverse health effects involving the kidney, scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) and other autoimmune disorders. Respirable crystalline silica has also been listed by the NTP as a “known human carcinogen” and by the ACGIH as a suspected human carcinogen. Crystalline silica is also considered a carcinogen by the state of California.

VII – PERSONAL PROTECTION AND CONTROL MEASURES

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| RESPIRATORY PROTECTION: | For respirable silica levels that are likely to exceed 8-hr TWA of 0.025 mg/m ³ , a NIOSH/MSHA approved half-mask N95 or better respirator must be worn. For levels exceeding 0.25 mg/m ³ , a full face N95 respirator must be worn, which must comply with MSHA/OSHA standards, including training program, fit testing, etc. For levels exceeding 1.25 mg/m ³ , consult an industrial hygienist or safety professional. |
| VENTILATION: | Local exhaust or general ventilation adequate to maintain exposures below limits. |
| SKIN PROTECTION: | (See Hygiene Section) |
| EYE PROTECTION: | Safety glasses with side shields, at a minimum. Dust goggles when excessively dusty. |
| HYGIENE: | Wash dust-exposed skin with soap and water before eating, drinking, smoking, or using toilet facilities. Wash work clothes after each use. |
| OTHER CONTROL MEASURES: | Respirable dust and silica levels should be monitored regularly. Dust and silica 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 workstations. |

VIII – STORAGE AND HANDLING PRECAUTIONS

Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. The personal protection and controls identified in Section VII of this MSDS should be applied as appropriate.

Do not store near food and beverages or smoking materials.

IX – SPILL, LEAK, AND DISPOSAL PRACTICES

Personal protection and controls identified in Section VII of this MSDS should be applied as appropriate.

Spilled materials, where dust can be generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Wetting of spilled material and use of respiratory protection may be necessary. Do not dry sweep spilled material.

None of the components in this product are subject to reporting requirements of Title III of SARA, 1986, and 40 CFR 372.

MATERIAL DISPOSAL METHOD:

Pick up and re-use clean material. Dispose of contaminated material in accordance with all applicable federal, state, and local laws and regulations.

X – TRANSPORTATION

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| DOT HAZARD CLASSIFICATION: | None |
| PLACARD REQUIRED: | None |
| LABEL REQUIRED: | Label as required by OSHA Hazard Communication standard [29 CFR 1910.1200 (f)] and applicable state and local laws and regulations. |

XI – OTHER INFORMATION

Abbreviations:

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| CAS No. | Chemical Abstract Service number |
| OSHA | Occupational Safety and Health Administration |
| MSHA | Mine Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average (8-hour) |
| CL | Ceiling Limit |
| mg/m ³ | Milligrams per cubic meter |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| NIOSH | National Institute for Occupational Safety and Health |
| > | Greater than |
| < | Less than |
| DOT | U.S. Department of Transportation |
| TDG | Transportation of Dangerous Goods |
| CFR | Code of Federal Regulations |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| SARA | Superfund Amendments and Reauthorization Act |

Information in this MSDS was obtained from sources believed to be reliable. It 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.