

Material Safety Data Sheet



I – PRODUCT IDENTIFICATION	
MANUFACTURER: Iron Mountain Trap Rock Company A subsidiary of Fred Weber Inc.	PRODUCT NAME: Crushed Stone (Aggregate) (Ballast) (Manufactured Sand)
ADDRESS: 177 Railroad St., PO Box 167 Rock Springs, WI 53961	DATE OF REVISION: June 24, 2009
INFORMATIONAL TELEPHONE:	608-522-5820

II – PRODUCT AND COMPONENT DATA			
COMPONENT NAME	CAS REGISTRY NO.	% (APPROX.)	EXPOSURE LIMITS
Quartzite (composition variable)	None	100%	See Section VI
Largely composed of Silica (SiO ₂)	14808-60-7	90-95%	

III – PHYSICAL DATA			
BOILING POINT:	N/A	SPECIFIC GRAVITY:	2.6-2.65
VAPOR PRESSURE:	N/A	VAPOR DENSITY:	N/A
SOLUBILITY IN WATER:	Insoluble	% VOLATILE BY VOLUME AT 68°F:	0%
APPEARANCE AND ODOR:	Pink to dark red, solid, angular particles ranging in size from sand to boulders. No odor.		

IV – FIRE AND EXPLOSION HAZARD DATA			
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			
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:	Handling or processing (grinding, sawing, chipping) of the material may release respirable silica-containing particulates.		

VI – HEALTH HAZARD / FIRST AID INFORMATION

PRIMARY ROUTES OF ENTRY: INHALATION X SKIN INGESTION EYES

<p>EXPOSURE LIMITS: (expressed in 8-hour time-weighted averages-TWA)</p>	<p>Other Particulates: TLV_{INHALABLE} = 10 mg/m³; TLV_{RESPIRABLE} = 3 mg/m³; OSHA PEL_{TOTAL} = 10 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 95% SiO₂, the MSHA/OSHA PEL = 3.4 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:

<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 trap rock 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:

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 are 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.

Trap rock is not listed as a carcinogen by IARC or NTP or OSHA.

VII – PERSONAL PROTECTION AND CONTROL MEASURES

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

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:

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.