

This MSDS Complies with 29 CFR 1910.1200)

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## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** **Garnet** Abrasive Grains and Powders

**Chemical Formula:**  $(\text{Fe, Mg})_3 \text{Al}_2(\text{SiO}_4)_3$

**CAS Number:** 1302-62-1

**Other designations:** Almandite and Pyrope Garnet

**General Use:** Industrial Abrasives

**Manufacturer:** Barton Mines Company, L.L.C.  
1557 State Route 9, Lake George, NY 12845  
Phone: (518) 798-5462 (7:30 AM - 5:30 PM EST)  
FAX: (518)798-5728  
Emergency Phone: (518)798-5462 or (518)251-2296  
or (518) 798-5510

## Section 2 - Composition / Information on Ingredients

**Ingredient Name:** Almandite and Pyrope Garnet (Primary Ingredient)

**ACGIH TLV TWA:** 10 mg/m<sup>3</sup> Total Dust

**CAS Number:** 1302-62-1

**% Wt.:** 94 - 99.6 %

**Trace Impurities:** 0.4 - 6% misc. trace minerals consisting of Hornblende, Magnetite, and Feldspar.

## Section 3 - Physical and Chemical Properties

<b>Physical State:</b> Solid	<b>Water Solubility:</b> Not Soluble in water
<b>Appearance and Odor:</b> Red,Pink,Whitish Grains or Powders	<b>Other Solubilities:</b> Not Relevant
<b>Odor Threshold:</b> No odor	<b>Boiling Point:</b> Not Relevant
<b>Vapor Pressure:</b> Not Relevant	<b>Melting Point:</b> 1,315 °C (2,399 °F)

**Vapor Density (Air = 1):** Not Relevant

**Viscosity:** Not Relevant

**Specific Gravity (H<sub>2</sub>O = 1):** 3.9 - 4.1

**Mean Refractive Index:** 1.77 - 1.79

**pH:** Not Relevant

**Evaporation Rate:** Not Relevant

#### Section 4 - Fire Fighting Measures

**Flash Point:** Non-flammable solid

**Flash Point Method:** Not Relevant

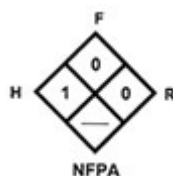
**LEL:** Not Relevant

**UEL:** Not Relevant

**Flammability Classification:** Not Relevant

**Extinguishing Media:** Use appropriate extinguishing media for surrounding fire.

**Unusual Fire or Explosion Hazards:** None



#### Section 5 - Stability and Reactivity

**Stability:** Stable

**Polymerization:** Polymerization can not occur.

**Chemical Incompatibilities:** None known

**Hazardous Decomposition Products:** None known

#### Section 6 - Health Hazard Information

**Acute Effects** (Effects of overexposure)

**Inhalation:** Dust may cause irritation of nasal and respiratory tract.

**Eye:** Dust may cause irritation.

**Skin:** May cause abrasions.

**Ingestion:** No known effects, however ingestion not recommended.

#### Medical Conditions Aggravated by Long-Term Exposure:

Chronic respiratory disease may be aggravated by exposure to nuisance dust.

#### Emergency and First Aid Procedures:

**Inhalation:** Remove to fresh air, if breathing is difficult, administer oxygen, obtain medical assistance, if needed.

**Eye Contact:** Flush with large amounts of water, obtain medical assistance, if needed.

**Skin Contact:** Thoroughly wash exposed area with soap and water.

**Ingestion:** Obtain first aid or medical assistance, if needed.

**Primary route(s) of entry:** Inhalation, Skin Contact

### Section 7 - Spill, Leak, and Disposal Procedures

**Spills:** Sweep or vacuum up material for disposal or recovery.

**Disposal:** Dispose of in accordance with local, state, and federal regulations. Material contaminated in use may require special disposal requirements.

### Section 8 - Exposure Controls / Personal Protection

**Ventilation:** Provide sufficient mechanical (General and/or Local Exhaust) ventilation to maintain dust exposure below threshold limit value (TLV).

**Respiratory Protection:** If needed use a NIOSH/MSHA approved dust respirator, cartridge, or mask.

**Eye Protection:** Recommend federally approved safety eyeglasses.

**Protective Gloves:** As desired by user.

### Section 9 - Special Precautions and Comments

No special precautions necessary for normal handling and storage of the material.

The information set forth herein is believed to be accurate but is not warranted with respect to the accuracy of the information or recommendations. Recipients are advised to confirm in advance of need that the information is current and applicable to their circumstances and usage.

*Prepared By: R. Strain*