

# MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.  
Standard must be consulted for specific requirements.

Date : 06/26/2001

## Barton Mines Company, L.L.C. GMA Garnet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Garnet Abrasive Grains and Powders

CHEMICAL NAME: Garnet, Almandite, Pyrope Garnet

COMPANY IDENTIFICATION

Barton Mines Co., L.L.C.  
P.O. Box 591  
Lake George, N.Y. 12845

GENERAL USE: Industrial Abrasives

CHEMICAL FORMULA: (Fe, Mg)<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>

EMERGENCY / TECHNICAL NUMBERS

(518) 798-5462 or (518) 251-2296 or (518) 798-5510  
(518) 798-5728 (FAX)

CHEMTREC:

(800) 424-9300

PRODUCT INFORMATION: MSDS Requests and Product Information: (518) 798-5462

SPECIAL NOTES:

### 2. COMPOSITION / INFORMATION INGREDIENTS

| <u>COMPONENTS</u>           | <u>CAS No.</u> | <u>ACGIH Recommended<br/>Limits (TLV)</u> | <u>Percent<br/>by Weight</u> |
|-----------------------------|----------------|---|------------------------------|
| Almandite and Pyrope Garnet | 1302-62-1      | 10 mg/m <sup>3</sup>                      | 94 - 99.6                    |

COMPOSITION COMMENTS:

Trace impurities: 0.4-6% miscellaneous trace minerals consisting of Hornblende, Magnetite, and Feldspar.

### 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTES OF ENTRY: Inhalation, Skin Contact

EYE: Dust may cause irritation.

SKIN: May cause abrasions.

INGESTION: No known effects, however ingestion is not recommended.

INHALATION: Dust may cause irritation of nasal and respiratory tract.

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

### 4. FIRST AID MEASURES

EYE: Flush with large amounts of water, obtain medical assistance, if needed.

SKIN: Thoroughly wash exposed area with soap and water.

INGESTION: Obtain first aid or medical assistance if needed.

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

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Nonflammable

FLASH POINT: Nonflammable solid

LEL / UEL: N/A

EXTINGUISHING MEDIA: Use appropriate extinguishing media for surrounding fire.

NFPA RATINGS: Health 1; Flammability 0; Reactivity 0.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: None

COMBUSTION PRODUCTS: None

FLASH POINT METHOD: N/A

FLAMMABILITY LIMITS (% by volume in air): None

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment. See Section 8.

CLEANUP MEASURES: 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 have special disposal requirements.

## 7. HANDLING AND STORAGE

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: 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 AND FACE PROTECTION: Recommend federally approved safety glasses

SKIN AND HAND PROTECTION: Gloves as desired by user.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Red, pink, whitish grains or powders pH: N/A

ODOR: Odorless

VAPOR PRESSURE: N/A

BOILING POINT: N/A

MELTING POINT: 1315°C (2399°F)

SPECIFIC GRAVITY: 3.9 - 4.1

EVAPORATION RATE: N/A

PERCENT VOLATILE (VOL): N/A

FLASH POINT: None

VAPOR DENSITY (AIR = 1): N/A

FREEZING POINT: N/A

SOLUBILITY: Insoluble

MEAN REFRACTIVE INDEX: 1.77 - 1.79

VISCOSITY: N/A

## 10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY WITH OTHER MATERIALS: None

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

Originally prepared by: R. Strain, Barton Mines Co., L.L.C.

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.