

## SAFETY DATA SHEET

# Ref. Mat. DigiSizer W-13320 (Garnet)

Date of Preparation: 06/19/2014

SDS #: 004-16841-00MSDS

### SECTION 1: IDENTIFICATION

**Product Identification:** Garnet (20 Gr)

(Fc, Mg) 3 A12 (SiiO4)3

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

**Volumes:** PS 11.0 UM

**Recommended Use:** Particle size reference material.

**Restrictions:** For laboratory use only.

**Supplier Information:**

Micromeritics Instrument Corp.  
4356 Communications Drive  
Norcross, GA 30093-2901 USA

Contact: Human Resources  
Phone: (770) 662-3620  
Fax: (770) 662-3696

**Manufacturer:** Barton Mines Company, LLC., PO Box 591, Lake George, NY 12845 **Phone:** (518) 709-5462  
(7:30 AM – 5:30 PM EST) **FAX:** (518) 798-5728 **Emergency Phone:** (518) 798-5462 or (518) 251-2296

### SECTION 2: HAZARDS IDENTIFICATION

**GHS Classification:** Not Applicable

**Signal word:** Not Applicable

**Hazard Statement:**

H303: May be harmful if swallowed

**Pictograms:** Not Applicable

**Precautionary Statements:** Not Applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Almadite and Pyrope Garnet	1302-62-1	94-99.6

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

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Almadite and Pyrope Garnet	none estab.	none estab.	10 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.

## SECTION 4: FIRST-AID MEASURES

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

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

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

**Ingestion:** Obtain first aid, get appropriate in-plant, paramedic or community medical support.

## SECTION 5: FIRE-FIGHTING MEASURES

**Flammability Classification:** Not relevant

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

**Unusual Fire or Explosion Hazards:** None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Spill /Leak Procedures:**

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

**Disposal:** Dispose of in accordance with local, state, and federal regulations.

## SECTION 7: HANDLING AND STORAGE

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 3). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** Recommend federally approved safety eyeglasses.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** Non-flammable solid.

**Flash Point Method:** Not relevant

**Burning Rate:** Not relevant

**LEL:** Not relevant

**UEL:** Not relevant

**Physical State:** Solid

**Appearance:** Red, pink, whitish grains or powders.

**Odor Threshold:** No odor.

**Vapor Pressure:** Not relevant.

**Vapor Density (Air=1):** Not relevant.

**Formula Weight:** Not relevant.

**Density:** Relevant

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 3.9-4.1

**pH:** Not relevant.

**Water Solubility:** Not soluble in water.

**Other Solubilities:** Not relevant

**Boiling Point:** Not relevant.

**Freezing/Melting Point:** 1,315°C (2,399°F)

**Viscosity:** Not relevant

**Refractive Index:** 1.77 – 1.79

**Surface Tension:** Not relevant

**% Volatile:** Not relevant

**Evaporation Rate:** Not relevant

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Garnet is stable in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** None known.

**Conditions to Avoid:** Not relevant

**Hazardous Decomposition Products:** None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

None available.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Available

**Environmental Fate:** Not Available

**Environmental Degradation:** Not Available

**Soil Absorption/Mobility:** Not Available

## SECTION 13: DISPOSAL CONSIDERATIONS

No special precautions necessary for normal disposal.

## SECTION 14: TRANSPORT INFORMATION

### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** Not regulated

**Shipping Symbols:** Not Applicable

**Hazard Class:** Not regulated

**ID No.:** Not regulated

**Packing Group:** Not Applicable

**Label:** Not Applicable

**Special Provisions (172.102):**

Not Applicable

### Packaging Authorizations

a) **Exceptions:** Not Applicable

b) **Non-bulk Packaging:** Not Applicable

c) **Bulk Packaging:** Not Applicable

### Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** Not Applicable

b) **Cargo Aircraft Only:** Not Applicable

### Vessel Stowage Requirements

a) **Vessel Stowage:** Not Applicable

b) **Other:** Not Applicable

Canadian TDG Hazard Class & PIN – Not regulated

## SECTION 15: REGULATORY INFORMATION

None available.

## SECTION 16: OTHER INFORMATION

**Prepared By:** Zuniga, A.

**Revision Notes:** Not Applicable

**Additional Hazard Rating Systems:** Not Applicable

**Disclaimer:** The information presented herein is believed to be accurate and was obtained from sources believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, with respect to its accuracy or completeness. It is the users' responsibility to determine the suitability of this product and the relevance of this information for their use.