

# Cover Sheet



INSTRUMENT CORPORATION  
 ONE MICROMERITICS DR.  
 NORCROSS, GA 30093-1877 U.S.A.

**MSDS**  
**REF. MAT. DIGISIZER W-13320**

						DWN BY	C. BILLS
						ENGR	J. PROUDMAN
						ENGR SIG	
						HR SIG	
						QA SIG	
-	Formal Release	C. Bills	11/6/01		010567	ES SIG	
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE	NUMBER	PAGE
<b>A</b>	<b>004/16841/00MSDS</b>	<b>X of 3</b>



# Micromeritics Material Safety Data Sheet

Title : Ref. Mat. DigiSizer W-13320  
Date of Preparation : 11/6/01

MSDS No. : 004/16841/00MSDS  
Revision : (-)

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Garnet (20 Gr)

**Chemical Formula:** (Fc, Mg)<sub>3</sub> A12 (Si<sub>3</sub>O<sub>4</sub>)<sub>3</sub>

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

**General Use:** Particle Size Reference Material

**Supplier:** Micromeritics Instrument Corp.  
1 Micromeritics Dr.  
Norcross, GA 30093-1877 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 - 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, Margnetite, and Feldspar.

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

## Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

**HMIS**

**H** 1

**F** 0

**R** 0

**PPE†**

†Sec. 8

### Potential Health Effects

**Primary Entry Routes:** Inhalation, skin contact.

**Target Organs:** May cause irritation to eyes or nasal tract

#### Acute Effects

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

**Eye:** Dust may cause irritation.

**Skin:** May cause abrasions.

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

**Carcinogenicity:** IARC, NTP, and OSHA do not list Garnet as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** Chronic respiratory disease may be aggravated by exposure to nuisance dust.

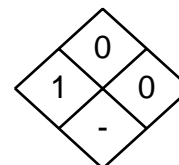
### Section 4 - First Aid Measures

**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

**Flash Point:** Non-flammable solid.  
**Flash Point Method:** Not relevant  
**Burning Rate:** 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

NFPA



### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**  
 Not relevant

### 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. 2). 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

**Physical State:** Solid  
**Appearance and Odor:** 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:** Revelant  
**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 elevant  
**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**

Not Revevant

**Section 12 - Ecological Information**

Not Revevant

**Section 13 - Disposal Considerations**

Not Revevant

**Section 14 - Transport Information**

Not Revevant

**Section 15 - Regulatory Information**

**EPA Regulations:**

Not Revevant

**Section 16 - Other Information**

**Prepared By:** C. Bills

**Revision Notes:** N/R

**Disclaimer:** *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.*