



## SAFETY DATA SHEET

acc. to OSHA HCS (29 CFR 1910.1200)

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### Trade Name: Garnet

#### 1. Identification

**Product Identifier:** Garnet

**Trade Names:** RockRidge Garnet

**Recommended Use:** Sand Blasting, Abrasive Jet Cutting

**Restrictions on Use:** None

**Manufacturer/Supplier:** GNPGraystar Specialty Materials  
37 John Glenn Dr.  
Amherst, NY 14228  
Phone: 716-759-6600  
Fax: 716-759-6602

#### 2. Hazard(s) Identifications

<b>Classifications of the Substance or Mixture:</b>	Not Classified	<b>Label Elements:</b>	None
<b>GHS Label Elements:</b>	None	<b>Hazard Pictograms</b>	
<b>Other Information:</b>	None	<b>Signal Word:</b>	None
<b>Hazard Statements:</b>	None	<b>Precautionary Statements:</b>	The product is mainly Garnet (Almandine) which is non-hazardous.

#### 3. Composition/Information on Ingredients

##### Chemical Characterization:

Chemical Name	CAS No.	Content (%)
Almandine	1302-62-1	> 90.0
Ilmenite	12168-52-4	< 2.0
Omphacite	12765-06-9	< 3.0
Calcium Carbonate	1317-65-3	< 0.5
Rutile	1317-80-2	< 1.0
Crystalline Silica	14808-60-7	< 0.1



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#### 4. First-Aid Measures

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##### General Information:

**After Inhalation:** Exposure to dust created during blasting may cause throat and lung irritation, coughing, or shortness of breath. If inhaled, move to fresh air. If symptoms persist, seek medical attention.

**After Skin Contact:** Wash skin thoroughly with soap and water. If symptoms persist, seek medical attention.

**After Eye Contact:** Particle dust may cause irritation. Flush eyes with water for at least 15 minutes. If symptoms persist, seek medical attention.

**After Swallowing:** Drink plenty of water. Never give liquid to an unconscious person. If symptoms persist, seek medical attention.

#### 5. Fire-Fighting Measures

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##### Extinguishing Media:

**Suitable Extinguishing Agents:** All extinguishing media can be used. Use extinguishing media suitable for surrounding fire.

**Special Hazards Arising from the Substance or Mixture:** The product is not flammable, combustible or explosive. No hazardous thermal decomposition.

**Advice for Firefighters:** No specific special fire-fighting precaution is required. Use equipment necessary for surrounding.

#### 6. Accidental Release Measures

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**Personal Precautions, Protective Equipment & Emergency Procedures:** No special precautions necessary. Wear equipment as for normal handling.

**Environmental Precautions:** No special precautions necessary. Material should not be dumped in the environment, rather collected and disposed of in accordance with local, state, and federal guidelines.

**Methods and Materials for Containment and Cleaning Up:** Vacuum, pump, or scoop spilled material into containers for reclaiming or for disposal. Do not discharge into drains, watercourses, or onto the ground.



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## 7. Handling and Storage

**Precautions for Safe Handling:** No special precautions necessary

**Conditions for Safe Storage:** Storage areas should be ventilated and dust generation should be minimized while handling. Use good housekeeping practices to keep nuisance dust to a minimum.

## 8. Exposure Controls / Personal Protection

**Control Parameters:** Follow workplace regulatory exposure limits for all types of airborne dust (e.g., total dust and to respirable dust). In the US, the ACHIH OEL (Occupation Exposure Limit) measured an 8 hour TWA (Time Weighted Average) is 3 mg/m<sup>3</sup>. The OSHA PEL (Permissible Exposure Limit) is 5 mg/m<sup>3</sup>. For the equivalent limits in other countries, please contact an occupational hygienist or the local regulatory authority.

**Appropriate Engineering Controls:** Use exhaust ventilation, if required, to maintain dust concentration below recommended exposure limits.

**Individual Protection Measures:**

- (a) Eye Protection: Wear side shield safety glasses
- (b) Hand Protection: Rubber gloves are recommended for prolonged exposure
- (c) Respiratory Protection: If a respirator is required, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Reddish/Brown Granules
<b>Odor:</b>	Odorless
<b>Color:</b>	Red and Brown
<b>pH:</b>	Not Applicable
<b>Melting Point:</b>	Approx. 1300 °C
<b>Flammability:</b>	Not Flammable
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not Explosive/Limits Do Not Apply.
<b>Relative Density:</b>	Approx. 3.7 g/cm <sup>3</sup>
<b>Solubility in Water:</b>	Negligible
<b>Explosive Properties:</b>	Not Explosive
<b>Oxidizing Properties:</b>	Non-Oxidizing



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## 10. Stability and Reactivity

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### Thermal Decomposition / Conditions to be Avoided:

<b>Possibility of Hazardous Reactions:</b>	None Known
<b>Bio Accumulative Potential:</b>	None Known
<b>Incompatible Materials:</b>	None Known
<b>Reactivity:</b>	Inert solid under normal storage, handling, and use conditions
<b>Chemical Stability:</b>	Stable under recommended storage conditions
<b>Hazardous Decomposition:</b>	None Known

## 11. Toxicological Information

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**Information on Toxicological Effects:** No acute or chronic health effects known in working in short or long term exposure to this product. This product does not contain toxic substances above known reportable limits.

**Symptoms related to physical, chemical, and toxicological characteristics:** None Known

**Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure:**  
None Known

**Numerical Measures of Toxicity:** None Known

## 12. Ecological Information

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**Eco Toxicity:** This product is a naturally occurring mineral with no known eco toxicity. It is insoluble in water and unlikely to contaminate waterways or food chains.

**Persistence and Degradability:** Stable and inert product which is not readily biodegradable

**Bio Accumulative Potential:** This product does not bio accumulate

**Mobility in Soil:** Below Detectable Limits

**Other Adverse Effects:** None Known



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## 13. Disposal Considerations

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### Waste Treatment Methods

**Recommendation:** Where possible, recycling is preferable to disposal. Product should be disposed of in compliance with local regulations.

**Contaminated Packages:** Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorized waste management company. Recycling and disposal of packaging should be carried out in compliance with local regulations.

## 14. Transport Information

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**Note: Not classified as a dangerous according to transport regulations.**

<b>IMDG/IMO:</b>	No Classification Assigned
<b>RID:</b>	No Classification Assigned
<b>ADR:</b>	No Classification Assigned
<b>ICAO:</b>	No Classification Assigned
<b>IATA:</b>	No Classification Assigned

## 15. Regulatory Information

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**Safety, health, and environmental regulations/legislation specific for the substance or mixture**

### United States Federal Regulations

<b>EPA - TSCA:</b>	Garnet is exempt from the <i>TSCA Inventory</i> as a naturally occurring mineral.
<b>EPA - CARCLA Reportable Quantity:</b>	Not Applicable
<b>EPA - SARA Title III:</b>	Substances in this product are not reportable under section 313
<b>OSHA:</b>	Particulate is regulated as nuisance dust- Particulate Not Otherwise Regulated (PNOR)
<b>ACGIH:</b>	Particulate is regulated as nuisance dust- Particulate Not Otherwise Classified (PNOC)

