

SAFETY DATA SHEET

REVISION: 01/07/2017



1.) Product and Company Identification

- 1.1 Product Identifier: Garnet
- 1.2 Synonyms: Rock Ridge Garnet
- 1.3 Identified uses: Sand Blasting, Abrasive Jet Cutting
- 1.4 Company Information:

GNP Ceramics
37 John Glenn Dr.
Amherst, NY, 14228
Phone: 716-759-6600
Fax: 716-759-6602

2.) Hazard Identification

GHS Classification:

Physical and Chemical Hazards: Not Classified

Human Health: Not Classified

Environment: No classification

Label Elements

- Pictogram None
- Signal Word None
- Hazard Statement None
- Precautionary Statements: The product is mainly garnet (Almandine) which is non-hazardous.

3.) Composition/ Information on Ingredients

Chemical Name	CAS No.	Content (%)
Almadine	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

4.) First-Aid Measures

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.

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

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

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

5.) Fire Fighting Measures

Extinguishing Media: 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 Fire- Fighters: No specific special fire-fighting precaution is required. Use equipment necessary for surrounding fire.

6.) Accidental Release Measures

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

Methods and Material for contaminant and cleaning up: Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. Do not discharge into drains, watercourses or onto the ground.

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.

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 when 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/m³. The OSHA PEL (Permissible Exposure Limit) is 5 mg/m³. The OSHA PEL (Permissible Exposure Limit) is 5 mg/m³. For the equivalent limits in other countries, please a component 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

Appearance: Reddish/ brown granules

Odor: Odorless

pH: Not applicable

Melting Point: Approx. 1300 °C

Flammability: Not Flammable

Upper/Lower Flammability or Explosive Limits: Not Explosive. Limits do not apply

Relative Density: Approx 3.7 g/cm³

Solubility in Water: Negligible

Explosive Properties: Not Explosive

Oxidizing Properties: Non- Oxidizing

10.) Stability and Reactivity

Stability: Stable under recommended storage conditions

Reactivity: Inert solid under normal storage, handling, and use conditions

Hazardous Reactions: None known

Conditions to Avoid: None known

Incompatible Materials: None known

Hazardous Decomposition Products: none known

11.) Toxicological Information

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

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

13.) Disposal Considerations

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

Disposal of Packaging: 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

UN Number: Not regulated

Transportation Hazard Class(es):

ADR: No classification assigned

IMDG: No classification assigned

ICAO/IATA: No Classification assigned

RID: No classification assigned

DOT: No classification assigned

Transport in Bulk According to ANNEX II of MARPOL 73/78 and the IBC Code: Not Regulated

15.) Regulatory Information

15.1 U.S Regulations:

EPA-TSCA: Garnet is exempt from the *TSCA Inventory* as a naturally occurring mineral.

EPA- CARCLA Reportable Quantity: Not applicable

EPA- SARA Title III: Substances in this product are not reportable under section 313.

OSHA: Particulate is regulated as nuisance dust- Particulate Not Otherwise Regulated (PNOR)

ACGIH: Particulate is regulated as a nuisance dust- Particulate Not Otherwise Classified (PNOC)

16.) Other Information

NFPA

Health Hazards: 0 Flammability: 0 Instability: 0 Physical and Chemical Properties: Yes

HMIS

Health Hazards: 0 Flammability: 0 Physical Hazards: 0 Personal Protection: B

Further information

User is granted the ability to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. GNP Ceramics, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.