ROCKRIDGE
ABRASIVES

SAFETY DATA SHEET

acc. to OSHA HCS (29 CFR 1910.1200)

Revision: February 27, 2019

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:

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

2. Hazard(s) Identifications

Classifications of the Substance or Mixture: Not Classified

GHS Label Elements: None

Other Information: None

Hazard Statements: None

Label Elements: None

Hazard Pictograms

Signal Word: None

Precautionary Statements: 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

4. First-Aid Measures

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

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

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

Environmental Precautions: No special precuations necessary. Material should not be dumped in the environment, rahter 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.

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 practives 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^3. The OSHA PEL (Permissable Exposure Limit) is 5 mg/m^3. 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

Appearance:	Reddish/Brown Granules
Odor:	Odorless
Color:	Red and Brown
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/cm^3
Solubility in Water:	Negligible
Explosive Properties:	Not Explosive
Oxidizing Properties:	Non-Oxidizing

10. Stability and Reactivity

Thermal Decomposition / Conditions to be Avoided:

Possibility of Hazardous Reactions: None Known

Bio Accumulative Potential: None Known

Incompatible Materials: None Known

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

Chemical Stability: Stable under recommended storage conditions

Hazardous Decomposition: 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.

Persistance and Degradability: Stable and inert product which is not redily 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 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

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

IMDG/IMO:	No Classification Assigned
RID:	No Classification Assigned
ADR:	No Classification Assigned
ICAO:	No Classification Assigned
IATA:	No Classification Assigned

15. Regulatory Information

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

United States Federal 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 nuisance dust- Particulate Not Otherwise Classified (PNOC)

Trade Name: Garnet

16. Other Information

NFPA

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

HMIS

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Preparation/Last Revision: 02/27/2019

Prepared by:

RockRidge Abrasives
37 John Glenn Dr.
Amherst, NY 14228