

Section 1 - Chemical Product and Company Identification

Product Name: Garnet

Other means of identification: Almandine Garnet, Garnet

Sand, Rock garnet.

Recommended Use: Blast Cleaning Abrasive, Water Jet

Cutting, Abrasive, Water Filtration.

Restriction on use: Not available

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Supplier/ Contact information:

Section 2 – Hazards identification

GHS Classification: Not classified.

Hazards summary: The product is dominantly garnet (almandine variety) which is a Non-Hazardous substance.

Supplemental information: The product as supplied contains traces of quartz (crystalline silica) which when used as an abrasive can break down to respirable dust size (particles small enough to go into deep parts of the lung when breathed in). Respirable crystalline silica is a listed carcinogenic substance which may cause silicosis and cancer.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
Almandine Garnet ($\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$)	1302-62-1	97-98
Ilmenite	-	<2
Quartz	14808-60-7	<1
Others	-	<0.5

Section 4 - First Aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes with large amounts of clean water for at least 15 minutes while holding the eyelids open. Remove contact lenses. Occasionally lift the eyelids to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from eyes. Get medical attention if irritation persists or later develops.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Ingestion: If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If symptoms occur, consult medical staff immediately.

Potential Acute and Chronic Health Effects: No acute or chronic health effects known in workers arising from short or long term exposure to this product. This product does not contain toxic substances above known reportable limits.

Section 5 - Fire-Fighting Measures

Flammability: This product is non-flammable and non-explosive.

Extinguishing Media: If product is involved in fire, use any extinguishing media appropriate to surrounding.

Fire-Fighting Equipment/Instructions: Wear self-contained breathing apparatus with a full face mask. Wear gloves and appropriate protective clothing. Keep container tightly closed.

Specific hazards arising from the chemical: None

Section 6 - Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures: Persons involved in cleanup processes should first observe precautions (as appropriate) identified in Section 8 of this SDS.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by vacuuming the material to avoid generating unnecessary dust and dispose of according to local and regional authority requirements. Do not dry sweep spilled material.

Section 7 - Handling and Storage

Handling Precautions: Avoid inhalation of dust and contact with eyes and skin. Use only with adequate ventilation and dust collection. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

Storage Requirements: Keep material dry. Avoid creating dust. Avoid breakage of bagged material or spills of bulk material.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines: Exposure 10 mg/m³ total dust and 5mg/m³ breathable dust.

Engineering Controls: Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant exposure limits and/or control dust/fume/gas/mist/vapors/spray. If ventilations is not adequate, use respiratory protection equipment. Provide exhaust at process emission source to control exposure near the source and to prevent the escape of dust into the work area. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of into the work area. Eyewash station should be within direct access.

Protective Clothing/Equipment: Where dust or vapor concentration exceeds or is likely to exceed applicable exposure limits, a NIOSH approved respirator is required. Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated. Use gloves to provide hand protection from abrasion. Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash or vacuum work clothes after each use.

Contamination: Take all the necessary precautions stated herein as well as those directed by the coatings and substrate suppliers. Any contamination that cannot be traced must be sampled for its content prior to work.

Section 9 - Physical and Chemical Properties

Appearance:

Reddish Pink to reddish brown, sub-angular particles

Odor: Odorless

PH: 8.0 - 9.0

Flammability: Non-flammable

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Boiling Point: Not applicable

Melting Point: 1315°C

Flash Point: Non-combustible

Specific Gravity (H₂O=1): 4.0 - 4.2

Evaporation Rate(butyl acetate=1): Not applicable

Solubility in Water: Insoluble

Autoignition temperature: Not applicable

Section 10 - Stability and Reactivity

Stability: Stable and non-reactive when used, stored and transported under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to Avoid: None known.

Incompatible materials None known.

Hazardous Decomposition Products: None known.

Section 11 - Toxicological Information

Inhalation: Dusts may irritate the nose, throat, mucous membranes and respiratory tract. Symptoms may include cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.

Eye Contact: Dust particles can scratch the eye causing tearing, redness, a stinging or burning feeling, or swelling of the eyes with blurred vision.

Skin Contact: Not irritating to the skin; however, ingestion may cause eye irritation, discomfort.

Ingestion: No effects known as product is inert; however, ingestion is not recommended.

Medical Conditions Aggravated by Exposure: Chronic respiratory, bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.

Delayed and immediate effects and also chronic effects from short and long term exposure: None known.

Carcinogenicity: Crystalline silica (quartz) – contains less than 1%

Take special precaution to note the potential hazards of the substrate, coatings or contamination that are removed by the use of our product. All material Certifications and chemical analyses should be obtained before commencement of work.

Section 12 - Ecological Information

Ecotoxicity: This product is naturally occurring mineral with no known ecotoxicity. It is insoluble in water and unlikely to contaminate waterways or food chains.

Persistence and degradability: Stable and inert product which is not biodegradable.

Bioaccumulative potential: This product is not bioaccumulating.

Mobility in soil: Below detectable limits.

Section 13 - Disposal Considerations

Waste Disposal: Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. If approved, may be transferred to a land disposal site. Please refer to section 8 for the safety of persons conducting disposal.

Section 14 - Transport Information

UN Number: Not regulated

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Marine Pollutant: Not applicable

Special Precautions: Not applicable

Section 15 - Regulatory Information

You must comply with all OSHA, local, city, state, province, country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to avoid the above danger will result in death or serious injury.

NOHSC: 1008(2004): Non dangerous but hazardous

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



Section 16 - Other Information

Issue date: 01/01/2016

Last Updated: 08/02/2018

The following sections contain revisions: All sections

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