



JANNAH GARNET

MATERIAL SAFETY DATA SHEET

Hazardous Ingredients

The following substances are present and regulated by OSHA and ACGIH limits:

<u>SUBSTANCE</u>	<u>WT.%</u>	<u>OSHA/ACGIH LIMIT IN USE*</u>
Nuisance Dust	na	15 mg/m ³
Respirable Dust	na	5 mg/m ³
Crystalline Silica	<1.0%	0.10 mg/m ³

*If these levels are exceeded, adequate respiratory protection must be employed.

Physical and Chemical Characteristics

Melting Point

Circa 1315°C

Solubility in Water

Insoluble

Specific Gravity (H₂O = 1.0)

3.9 – 4.1

Appearance and Odor

Reddish-brown color; no odor

Fire and Explosion Hazard Data

Flash Point (method used)

Material is a non-flammable solid

Flammable Limits

not applicable

LEL

na

UEL

na

Extinguishing Media

Use extinguishing media appropriate for the surrounding fire.

Special Fire Fighting Procedures

As appropriate to surrounding fire. Fire fighters should be protected from nuisance dust.

Unusual Fire and Explosion Hazards

None



Stability () Unstable
(x) Stable INERT

Hazardous Decomposition or Byproducts: None known

Hazardous Polymerization () May Occur (x) Will Not Occur

Incompatibility (materials to avoid): None known

Conditions to Avoid: None known. Almandine Garnet is an inert, stable solid needing no special handling in normal use.

Health Hazard Data

Route(s) of Entry	Inhalation Possible	Skin None	Ingestion None
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Health Hazards (acute and chronic due to overexposure)

Inhalation: Dust may cause irritation of nasal and respiratory tract or coughing.

Eyes: Dust may cause irritation.

Skin: May cause abrasions. Dust may cause irritation.

Ingestion: No known effects, however ingestion not recommended.

Carcinogenicity	NTP	IARC Monographs	OSHA Regulations
Crystalline Silica (quartz)	--	No. 42	0.1 mg/m ³
Contains less than 1.0%	--	na	

Radioactivity

This product contains very low levels of naturally occurring radioactive elements of the uranium and thorium series, as do many mineral products. Primary exposure potential is internal via inhaled dust. This material is exempt from NRC regulations for source material per 10CFR40 since it is below 0.05% uranium/thorium by weight.

Medical Conditions Generally Aggravated by Exposure

Chronic bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.

Emergency and First Aid Procedures

EYE CONTACT: Wash eyes with water to flush out dust particles.

SKIN CONTACT: Wash affected area with soap and water.

INHALATION: Remove from source of dust and obtain other medical assistance.

INGESTION: Obtain medical assistance, if needed.



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Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

NO SPECIAL PRECAUTIONS ARE NECESSARY. Sweep or vacuum material for disposal. Prevent generation of dust during clean up.

Waste Disposal Methods

Follow local, state and federal guidelines for disposal of inert solid waste.

MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.

Precautions to be Taken in Handling and Storage

NONE --- Use good housekeeping practices to reduce dust; use approved hand, eye and respiratory protection when handling material.

Other Precautions

Use material ONLY for the purposes intended and incorporate methods of dust control to maintain airborne dust within federal or local TLV limits.

Control Measures

Respiratory Protection

NIOSH/MSHA approved filters and air supplied hoods for blasters.

Ventilation	Local Exhaust	Mechanical (general)	Special	Other
Yes	Use when blast cleaning	Meet dust TLV	None	None

Protection Gloves

Leather, or equivalent – in use

Eye Protection

Safety glasses with side shields

Other Protective Clothing or Equipment

Hearing protection when working near blast cleaning operations.

Work/Hygienic Practices

Maintain a clean and safe work environment and monitor work practices.