

# Material Safety Data Sheet

- Hazardous Ingredients / Identity Information
- Physical and Chemical characteristics
- Fire and Explosion Hazard Data
- Reactivity Data
- Health Hazard Data
- Precautions for safe handling and Use
- Control Measures

## SECTION I

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION	
<b>Product/Chemical Name</b>	Garnet
<b>Manufacturer's Name</b>	V.V.Mineral
<b>Address</b>	
City	Keeraikaranthattu, Tisaiyanvilai
State	Tamilnadu
Port	Tuticorin
Country	INDIA
Pin	627 657
<b>Phone no</b>	00 91 4637 271202 / 302
<b>Fax</b>	00 91 4637 271802
<b>E-Mail</b>	<a href="mailto:vvmindia@vvmineral.com">vvmindia@vvmineral.com</a>
<b>Sg.</b>	Super Garnet is a natural mixture of Almandine garnet - $Fe_3Al_2(SiO_2)_3$ with Mg and Mn in partial substitution for Fe in the formula and other minerals. The following substances are present.

Substances	Wt%	Limit In Use	Remarks
Crystalline Silica	<0.5%	0.10 Mg/cu.m	If these levels are exceeded
Respirable dust	NA	5 Mg/cu.m	Respiratory
Nuisance dust	NA	15Mg/cu.m	Must be applied.

## SECTION II

PHYSICAL AND CHEMICAL CHARACTERISTICS	
<b>Melting Point</b>	1320c
<b>Specific Gravity (H<sub>2</sub>O = 1.0)</b>	4.0 to 4.5
<b>Solubility in Water</b>	Non-soluble
<b>Appearance and Odour</b>	Reddish brown, no odour
<b>Physical State</b>	Solid
<b>Viscosity</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable

### SECTION III

#### FIRE AND EXPLOSION HAZARD DATA

<b>Flammability</b>	Non - Flammable Solid
<b>Flash Point (Method used)</b>	NA
<b>Material is non-flammable solid</b>	NA
<b>LEL - Not Applicable</b>	NA
<b>UEL - Not Applicable</b>	NA
<b>Extinguishing Media</b>	Use appropriate extinguishing media for the surrounding fire

### SECTION IV

#### STABILITY & REACTIVITY DATA

<b>Stability</b>	Stable
<b>Polymerization -</b>	Can not occur
<b>Incompatibility</b>	None known
<b>Hazardous Decomposition or By Products</b>	None known

### SECTION V

#### HEALTH HAZARD DATA

<b>Route(s) of Entry</b>	<b>Inhalation?</b>	<b>Skin?</b>	<b>Ingestion?</b>
	Possible	None	None
<b>Health Hazards (Acute and Chronic)</b>	None Known. Use care to limit possible exposure to nuisance dust during blast cleaning.		
<b>Carcinogenicity</b>	Crystalline Silica (Quartz) contains less than 0.5%		
<b>Signs and Symptoms of Exposure</b>	Exposure to nuisance dust may cause eye, throat or lung irritation, coughing or shortness of breath.		
<b>Medical Conditions Generally Aggravated by Exposure</b>	Chronic bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.		
<b>Emergency and First Aid Procedures</b>	<b>Eye Contact:</b> Wash eyes with water to flush out dust particles. <b>Skin Contact:</b> Wash affected area with soap and water. <b>Ingestion :</b> Obtain first aid or medical assistance, if needed. <b>Inhalation :</b> Remove to fresh air, if breathing is difficult, administer oxygen, obtain first aid, if needed		

### SECTION VI

#### 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 Method**

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 Storing**

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

**Other precautions**

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

**SECTION VII**

**CONTROL MEASURES**

**Respiratory Protection (Specify Type)**

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

<b>Ventilation</b>	Local Exhaust	Special
YES	Use when blast cleaning	None
	Mechanical (General)	Other
	Meet dust TLV.	None

**Protection Gloves**

Leather gloves, leather cabs and paper mask.

**Eye Protection**

Recommend safety glasses with side shields approved by Federal.

**Other Protective Clothing or Equipment**

Normal Safety protection is adopted

**Work/Hygienic Practices**

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

**SECTION VIII**

**SPECIAL COMMENTS & PRECAUTIONS:**

The above said information is believed to be accurate but is not warranted with respect to the accuracy of the information or recommendations. The users are advised to confirm in advance of the need that the information is current and applicable to their circumstances and usage.

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