



## SUPREME GARNET MATERIALS SAFETY DATA SHEET

<b>Identity Information</b>	<b>Mineralogy</b>
<b>Physical and Chemical Characteristics</b>	<b>Typical Chemical Composition</b>
<b>Ingredient comments</b>	<b>Fire and Explosion Hazard Data</b>
<b>Reactivity Data</b>	<b>Health Hazard Data</b>
<b>Precautions for Safe Handling and Use</b>	<b>Control Measures</b>

### SECTION I

<b>Product Name</b>	RGT SUPREME GARNET SAND
<b>Chemical Name</b>	Garnet Almandine
<b>Importer's Name</b>	<b>ROCK GARNET TRADING</b>
<b>Address</b>	NO 7 JALAN BIDARA 5 BANDAR BOTANIC 41200 KLANG SELANGOR DARUL EHSAN WEST MALAYSIA
<b>Phone</b>	+6012-6196868/+6017-8789984
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<b>E-mail</b>	<a href="mailto:kumaran@rockgarnet.com">kumaran@rockgarnet.com</a>
<b>Website</b>	<a href="http://www.rockgarnet.com">www.rockgarnet.com</a>

**ROCK GARNET TRADING** (SA0079856-X)No. 7, Jalan Bidara 5, Bandar Botanic, 41200 Klang, Selangor Darul Ehsan  
Tel: 012-6196868 Fax: 03-3324 4197 Email: kumaran@rockgarnet.com**Section II****MINERALOGY**

Garnet	98%
Ilmenite	Ilmenite less than 0.2 %
Hornblende	1.0%
Free Silica	None
Others	<0.5% only

**Section III****PHYSICAL AND CHEMICAL CHARACTERISTICS**

Melting Point	1260 <sup>0</sup> c
Specific Gravity	4.0-4.1
Hardness	8 Moh's scale
Appearance and Odor	Dark red, Dark Pink No odor
Bulk Density	2.1 gms./cc
Loss on Ignition	0.08%
Boiling Point	Not Applicable
Solubility in Water	Non-soluble
Physical State	Solid
Viscosity	Not Applicable
Strength	Friable to tough
Particle Shape	Sharp and Sub angular.

**Section IV****TYPICAL CHEMICAL COMPOSITION :**

Ingredients by Weight (%) :

SiO <sub>2</sub> (total)	36.0
AL <sub>2</sub> O <sub>3</sub>	20.0
FeO	20.0
Fe <sub>2</sub> O <sub>3</sub>	9.0
CaO	7.0
MgO	5.0
TiO <sub>2</sub>	1.5



**Section V INGREDIENT COMMENTS**

Contains <0.3% silica, <0.005 toxic substances (lead, zinc, copper and cobalt) and , <0.02% Carcinogenic substances (cadmium, Nickel and chromium). The material is very inert and potentially harmful substances, like heavy metals, are not very likely to liberate as they are bound in the structure

**Section VI**

**FIRE AND EXPLOSION HAZARD DATA**

Flammability	Material is a non-flammable solid
Flash Point (Method used)	NA
Material is non-flammable solid	NA
LEL - Not Applicable	NA
UEL - Not Applicable	NA
Extinguishing Media	Use appropriate extinguishing media for the surrounding fire
Special Fire Fighting Procedures	As appropriate to fire; Fire fighters should be protected from nuisance dust.
Unusual Fire and Explosion Hazards	None

**Section VII**

**STABILITY & REACTIVITY DATA**

Product Stability	Inert and Stable
Polymerization -	Can not occur
Incompatibility	None known
Hazardous Decomposition or By-Products	None known
Conditions to Avoid	Material is a stable natural mineral, so it requires no special handling



**SECTION VIII**

**HEALTH HAZARD DATA**

Route(s) of Entry - Inhalation - Skin - Ingestion	Possible None None
Health Hazards (Acute and Chronic)	None Known. Use care to limit possible to nuisance dust may cause eye, throat/lungs irritation during blast cleaning.
Signs and Symptoms of Exposure	Exposure to nuisance dust may cause eye, throat or lung irritation, coughing or shortness of breath .It will cause Irritation to eyes as any foreign material does irritate. .
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	<p><u>Eye Contact:</u> To prevent eye contact use safety glass during operation. If contact with eye occurs rinse immediately with water. Keep the eyelids open. Important: Don't rub the eyes in order to avoid damage. Seek medical aid in case irritation persists.</p> <p><u>Skin Contact:</u> Will not affect skin but wash skin with water if required.</p> <p><u>Ingestion:</u> Will not affect. No specific measures are necessary. In case of discomfort, seek medical assistance.</p> <p><u>Inhalation:</u> Inhalation of dust is possible during operation. To prevent inhalation of dust, use dust mask and breathe fresh air, rest and keep warm. Blow your nose and flush mouth with water.</p>



<b>SECTION IX PRECAUTIONS FOR SAFE HANDING AND USE</b>		
Precautions when Spill-out or reuse	-	Sweep or vacuum material for disposal
Disposal Precautions	-	Follow state or local guideline and regulations for disposal. Material contaminated in use may require special disposal requirements.
Handling, Storing and Use	-	Store in a dry place. Use good housekeeping practices to reduce dust. Incorporate methods of dust control to maintain airborne dust. Use material only for the purpose intended.

<b>SECTION X</b>	<b>CONTROL MEASURES</b>
Protection Gloves	Leather gloves, leather cabs and paper mask
Eye Protection	Recommend safety glasses with side shields approved by Federal.
Protective apparels	Wear Hearing protection when working near blast cleaning operations
Ventilation	Provide sufficient mechanical ventilation to maintain dust exposure below threshold limit value.
Other Protective Clothing or Equipment	Normal Safety protection is adopted
Work/Hygienic Practices	Maintain a clean and safe work environment and monitor work practices.
Preventative Measures	Use gloves and safety glasses as normal procedures to protect from abrasive products. Leaks or spills may be shoveled or swept up. Avoid unnecessary dusting while sweeping. If airborne concentration of nuisance.

**MAINTAIN CLEAN AND SAFE WORK ENVIRONMENT.**

**CLOSELY MONITOR EFFECTIVENESS OF THE SAFETY MEASURES**

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