



**PG & YBT EXPERTISE SDN BHD**

THE ABRASIVE AND EQUIPMENT SPECIALIST

NO 9 GROUND FLOOR, JALAN BAYU LAUT 4 A/KS 09, KOTA BAYUMAS, 41200 KLANG SELANGOR D.E, MALAYSIA

Tel: +603-33186649

## **MATERIAL SAFETY DATA SHEET**

### **GARNET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product identification  
Product names : **PG SUPREME GARNET**  
Company Identification  
Company : PG & YBT EXPERTISE SDN BHD  
NO. 9, Ground floor, Jalan bayu laut 4  
Address : A/KS 09, Kota bayumas, 41200 Klang,  
Selangor D.E.  
Malaysia  
Telephone Number : +603-33186649

#### 2. COMPOSITION /INFORMATION INGREDIENTS

##### Typical analysis Chemical

SiO <sub>2</sub>	-	35 – 37 %
Fe <sub>2</sub> O <sub>3</sub>	-	30 – 32 %
Al <sub>2</sub> O <sub>3</sub>	-	21 – 23 %
MgO		5 – 6 %
CaO	-	0.2– 1 %
MnO	-	0.2 – 1 %
TiO <sub>2</sub>	-	0.2– 0.9 %

#### 3. HAZARDS IDENTIFICATION

Eye	Particles or dust is moderate eye irritant due to its abrasive action.
Inhalation	Dust may cause irritation of the nasal and respiratory tract. Exposure to nuisance dust created by use from blasting may cause throat and lung irritation, coughing or shortness of breath.
Skin	Non-hazardous.
Ingestion	There are no known hazards caused by accidental ingestion of small amount such as might occur during normal handling. Ingestion of larger quantities might cause irritation of the gastro-intestinal system as a result of abrasive action.
Medical conditions generally aggravated by exposure:	Chronic respiratory, bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.



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#### 4. FIRST AID MEASURES

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Eye	Hold eye as open and rinse continuously with a gentle stream of clean running water for at least 15 minutes. Seek medical attention if any irritation or soreness of eye persists.
Inhalation	Remove the victim from source of exposure into fresh air and seek medical attention if any symptoms persist.
Skin	No specific first aid is required for skin contact. Remove clothing & wash skin with soap and /or water. Seek medical attention if any irritation or soreness of the skin develops.
Ingestion	First aid is unlikely to be required but if necessary rinse mouth with water ensuring that mouthwash is not swallowed and seeks medical attention as a precautionary measure if large amounts have been ingested.

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#### 5. FIRE FIGHTING MEASURES

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This is a non-combustible material. Use whatever protective equipment and extinguishing agent that is suitable for the primary cause of fire.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Wear safety equipments as for normal handling, avoid generating dust. Sweep or vacuum up, recycle / reuse or dispose to landfill subject to local regulations. Transport is not regulated and no specific storage requirements.

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#### 7. HANDLING AND STORAGE

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Storage	Transport is not regulated and there is no specific storage requirement but storage should be designed to minimize creation of the dust.
Spillage	Wear protective equipment as specified for handling. Sweep or vacuum up and Reuse or dispose. Avoid generation of dust.
Waste disposal	Disposal to land fill subject to local regulations.
Fire explosion	Incombustible
Fire extinguishing	Use whatever protective equipment's and extinguishing agent are suitable for primary cause of fire.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:	Crystalline Silica (Quartz) respirable dust: 0.1 mg/m <sup>3</sup> TWA (time weighted average) may be exceeded when the product is used for dry blasting (respirable dust is ≤ 7 microns particle equivalent aerodynamic diameter).
Ventilation	Ventilation requirement will depend upon handling methods and amount in use but extraction or make up air may be required to minimize dust layers/levels below exposure limits.
Protective equipments	Safety goggles or glasses. A dust type respirator may be required to prevent ingestion.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Mineral	Almadine	Flash point	None
Grain Size	0.05mm-5mm	Explosion limit	Not pertinent
Co lour	Reddish brown to pink	Solubility- water)	Insoluble
Odor	Odorless	Vaporspressure	Not pertinent
Melting point	1550-1600 °C	Vaporsdensity	Not Applicable
Evaporation rate	Not Pertinent	Hardness	6.0 –7.0 in Mohr's Scale
Specific gravity	3.8-4.2g/cm <sup>3</sup>	Crystal system	Orthorhombic
Bulk density	1.9-2.4g/cm <sup>3</sup>	% Volatiles	None
pH	6 - 7	Flammability	Non combustible

### 10. STABILITY AND REACTIVITY

Chemical stability	:	Stable
Reactivity	:	Inert
Incompatibilities	:	None in normal or expected use.
Decomposition	:	Decomposition will not occur.

### 11. TOXICOLOGICAL INFORMATION

Non- toxic

### 12. ECOLOGICAL INFORMATION



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The matter is unlikely to cause any environmental damage if handled, used and disposed off in the approved manner. It is insoluble in water and unlikely to contaminate waterways or enter the food chains.

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### 13. DISPOSAL CONSIDERATIONS

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This is a non-hazardous material; disposal must be in accordance with federal, state and local regulations. Consult and comply with current regulations. If approved, may be transferred to an approved landfill site.

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### 14. TRANSPORT INFORMATION

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Transport is not regulated & may be transported as a non-hazardous material. Trucks transporting/carrying bulk material should be covered to prevent dust generation.

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### 15. REGULATORY INFORMATION

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None applicable - there are currently no known additional regulations for this material.

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### 16. OTHER INFORMATION

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MSDS data issued PG & YBT EXPERTISE SDN BHD

Disclaimer Tel: +603-33186649

When appropriate.

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product shall take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication, and will be undated as and when appropriate.