



# MATERIAL SAFETY DATA SHEET

## PERSIAN GARNET

### STATEMENT OF HAZARDOUS NATURE

not classified as hazardous

### COMPANY DETAILS

## Persian Garnet

Tehran – IR Iran

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### IDENTIFICATION

Product Name:	Persian Garnet
Other Names:	garnet abrasive, almandine garnet
Manufacturer's Product Code:	PG-80, PG-30/60, PG-20/40
UN Number:	No UN Number allocated
Dangerous Goods Class and Subsidiary Risk:	None allocated
Hazchem Code:	No Hazchem code allocated
Poisons Schedule Number:	No Poisons Schedule number allocated
Use:	Blast cleaning abrasive Water Jet cutting abrasive Water filtration media

### Physical Description/Properties

Appearance:	Pink to red colored sand with no odor
Melting Point:	Approximately 1250 °C
Vapor Pressure:	Not applicable
Specific Gravity:	4.1
Flashpoint:	Material is a non-flammable solid
Flammability Limits:	Not applicable
Solubility in Water:	Not soluble in water

### Other Properties

Bulk Density:	2.3 tones per cubic mete
Hardness:	7.5 – 8.0 on the Moh scale
Radioactivity:	Not detectable above background levels

## Ingredients

Mineral	Chemical Formula	Percentage (%)	Crystal System
Almandine	$(\text{Fe},\text{Mn})_3\text{Al}_2(\text{SiO}_4)_3$	~78	Cubic
Pyrope	$(\text{Mg},\text{Fe})_3\text{Al}_2\text{SiO}_{12}$	~13	Cubic
Dolomite	$\text{CaMg}(\text{CO}_3)_2$	~3.5	Hexagonal (Rh)
Clay mineral	$(\text{Mg},\text{Fe})_5(\text{Al},\text{Si})_5\text{O}_{10}(\text{OH})_8$	~3.5	Monoclinic
Quartz	$\text{SiO}_2$	~1.5	Hexagonal

## HEALTH HAZARD INFORMATION

### Health Effects

Acute:	None known. Use as a blast cleaning media may create conditions of exposure to nuisance dust.
Swallowed:	No effects known.
Eye:	Exposure to nuisance dust created by use as a blast cleaning media may cause eye irritation.
Skin:	Not irritating to the skin.
Inhaled:	Exposure to nuisance dust created by use as a blast cleaning media may cause throat and lung irritation, coughing or shortness of breath.
Chronic:	No known health effects in workers arising from long term exposure to this substance.

### First Aid

Eye:	Wash eyes with water to flush out particles.
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## PRECAUTIONS FOR USE

Exposure Standards:	Nuisance dust levels should be kept below $10 \text{ mg/m}^3$ . If this level is exceeded respiratory protection is required.
Engineering Controls:	Maintain ventilation and/or dust collection to reduce dust exposure to nearby workers. Maintain a clean and safe work environment and monitor effectiveness.
Personal Protection:	Blast cleaning operations should use an AS 1715 approved air fed abrasive blasting hood, such as Nova 2000, as well as leather (or equivalent) gloves and apron when in use. Hearing protection should also be worn when blast cleaning.
Flammability:	Not flammable.

## SAFE HANDLING INFORMATION

Storage and Transport:	No special precautions necessary.
Spills:	No special precautions necessary. Sweep or vacuum material for disposal.
Disposal:	Follow local, state or federal guidelines for disposal of inert solid waste, e.g. landfill. MATERIAL CONTAMINATED IN USE MAY NEED SPECIAL HANDLING.
Fire/explosion Hazard:	None.
IATA:	Possible – No Problem

