



MATERIAL SAFETY DATA SHEET

WATERJET GARNET

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Date of Re-issue: November 2005

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS

Performance Management
T/as: **Performance Cutting Supplies**

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IDENTIFICATION

Product Name: GMA Garnet
Other Names: garnet abrasive, almandine garnet, almandite garnet
Manufacturer's Product Code: None
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: Water Jet cutting abrasive

Physical Description/Properties

Appearance: Pink to red coloured sand with no odour.
Melting Point: Approximately 1250deg C
Vapour Pressure: Not applicable.
Specific Gravity: 4.1
Flashpoint: Material is non-flammable solid.
Flammability Limits: Not applicable.
Solubility in Water: Not soluble in water.

Other Properties

Bulk Density: 2.3 tonnes per cubic metre
Hardness: 7.5-8.0 on the Moh scale
Radioactivity: Not detectable above background levels.

Ingredients

GMA Garnet is a natural mixture of almandine garnet and other trace minerals

Chemical Name	CAS Number	Proportion (weight %)
Almandine Garnet (Fe ₃ Al ₂ (SiO ₄) ₃)	1302-62-1	Greater than 97%
Ilmenite FeTiO ₃		Less than 1.5%
Calcium Carbonate CaCO ₃		Less than 1.5%
Zircon ZrSiO ₄		Less than 0.2%
Quartz (crystalline Silica) SiO ₂	14808-60-7	Less than 0.5% (warranted)

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.

Eyes: Exposure to nuisance dust created by handling spent abrasive may cause eye irritation.

Skin: Not irritating to the skin.

Inhaled: Exposure to nuisance dust created handling spent abrasive 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

Eyes: Wash eyes with water to flush out particles.

PRECAUTIONS FOR USE

Exposure Standards: Nuisance dust levels should be kept below 10 mg/m³. If this level is exceeded respiratory protection is required.

Engineering Controls: Maintain ventilation and/or dust collection to reduce dust exposure to near-by workers. Maintain a clean and safe work environment and monitor effectiveness.

Personal Protection: Handling of waste abrasive in wet state will not release dust. However if waste material has dried, an approved respirator should be worn. Hearing protection should also be worn if noise levels from waterjet operations exceed safe exposure levels.

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, eg landfill. MATERIAL CONTAMINATED IN USE MAY NEED SPECIAL HANDLING.

Fire/explosion Hazard: None

CONTACT POINT: Technical Manager, Ph: 1300 722 559, Fax: 1300 733 635