

# **GMA GARNET™**

#### **IDENTIFICATION**

**Product Name:** GMA Garnet™

Other Names: Garnet sand, almandine garnet, alluvial garnet, PremiumBlast™, SpeedBlast™, NewSteel™,

30/60 mesh, 50 mesh, 60 mesh, 80 mesh, 120 mesh, 600/250.

**Recommended Use:** Blast cleaning abrasive, water jet cutting abrasive, water filtration media.

Supplier: BlastOne International

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### HAZARDS IDENTIFICATION

GHS classification of the substance: 2513.20.00

GHS label elements, including precautionary statements:

The product is dominantly garnet (almandine variety) which is a Non-Hazardous substance. Traces of dust in the unused product are from calcium carbonate which is also Non-Hazardous.

Other hazards which do not result in classification: The product does not contain asbestos.

Do not breathe dust liberated from used product. Product may have become contaminated by use.

## COMPOSITION/INFORMATION ON INGREDIENTS

This material is a natural mixture of almandine garnet and other trace minerals.

CHEMICAL IDENTITY	COMMON NAME	CAS NUMBER	PROPORTION (WEIGHT %)
Fe <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	Almandine Garnet	1302-62-1	Greater than 96%
FeTiO <sub>3</sub>	Ilmenite	12168-52-4	Less than 3.5%
CaCO <sub>3</sub>	Calcium Carbonate (free)	471-34-1	Less than 1.0%
ZrSiO <sub>4</sub>	Zircon	14940-68-2	Less than 0.1%
SiO <sub>2</sub>	Crystalline Silica (free)	14808-60-7	Less than 0.1%

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#### FIRST AID MEASURES

No acute or chronic health effects known in workers arising from short or long term exposure to this product.

Description of first aid measures:

**Ingestion:** Non-toxic. There are no known health effects resulting from accidental ingestion of small amounts

that may occur during normal handling. Ingestion of larger amounts may cause

abdominal discomfort due to abrasiveness. Seek medical attention

if symptoms develop.

**Eye Contact:** Particle and dust exposure may cause eye irritation due to abrasiveness. Flush with plenty of clean

water for at least 15 minutes or until particles are removed. Seek medical attention if irritation or

soreness persists.

**Skin Contact:** There are no known health effects from skin contact that may occur during normal handling. Seek

medical attention if symptoms develop. Contact with material under pressure will damage skin by

abrasion.

Clean and dress any open wounds and seek medical attention.

**Inhalation:** Exposure to dust created by use as a blast cleaning media may cause throat and lung irritation,

coughing or shortness of breath. Move to fresh air and blow nose to remove particulates from nasal

passages. Seek medical attention if symptoms persist.

Most important symptoms and effects, both acute and delayed:

Ingestion:No specific symptoms noted.Eye Contact:No specific symptoms noted.Skin Contact:No specific symptoms noted.Inhalation:No specific symptoms noted.

Indication of immediate medical attention and special treatment needed, if necessary:

It is recommended that eyewash facilities are available in the workplace.

#### FIRE FIGHTING MEASURES

This product is non-flammable and does not support combustion.

**Extinguishing Media:** Non-flammable. Use media suitable for the surrounding materials.

General Hazard: None known.

**Protective Equipment:** No specific procedures given. Use protective equipment and precautions suitable for

surrounding fire.

#### **ACCIDENTAL RELEASE MEASURES**

**Personal:** No special precautions necessary. Wear safety equipment as for normal handling.

**Environmental:** No special precautions necessary. This material should not be dumped in nature but collected and

disposed of in accordance with local, state or federal guidelines.

Containment: If possible, vacuum the material to avoid generating unnecessary dust, otherwise, sweep and shovel

any spillages.

#### HANDLING AND STORAGE

No special precautions necessary.

Storage areas should be ventilated and dust generation minimised when handling loose bulk product. Use good housekeeping practices to keep nuisance dust to a minimum.



## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Standards:** Crystalline silica (quartz) respirable dust: 0.1 mg/m³ TWA (time weighted average) may be

exceeded when the product is used for dry blast cleaning, depending on material being blasted (respirable dust is  $\leq 7$  microns particle equivalent aerodynamic diameter). Total dust (inspirable):

10 mg/m<sup>3</sup> TWA

Engineering Controls: Maintain ventilation and/or dust collection to reduce exposure to dust generated during handling,

use and clean-up. Maintain a clean and safe work environment and monitor effectiveness.

**Personal Protection:** Follow local, state or federal guidelines for the use of personal protection equipment. Blast cleaning

operations should use an air fed abrasive blast hood conforming to relevant standards such as Australian Standards 1715,1716 and European Standard EN14594:2005 such as a Nova 2000, as well as leather (or equivalent) gloves and apron when in use. Hearing protection should also be worn when

blast cleaning.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Pink to red coloured free flowing sand.

Odour: Odourless.

Odour Threshold: Not applicable.

pH: 8.0 to 9.0

**Melting Point:** Approximately 1250 °C (2282 °F)

Flash Point: Non-combustible.

Evaporation Rate: Not applicable.

Flammability (Solid, Gas): Non-flammable.

Upper/Lower Flammability

or Explosive Limits:

Non-combustible.

Vapour Pressure: Not applicable.
Vapour Density: Not applicable.

Specific Gravity: 4.1

**Solubility:** Insoluble.

**Radioactivity:** Not detectable above background levels.

**Hardness:** 7.5 – 8.0 Mohs

**Particle Size:** Average range between 0.1 – 0.6mm

(150 mesh - 30 mesh), depending on grade.

Particle Shape: Sub-angular.
Source: Alluvial

**Bulk Density:** Approximately 2.3 t/m³ (145 lbs/ft³)

**Volatile Organic Compounds** 

Content:

Below detectable limits.

Partition Coefficient:
N-octanol/Water
Not applicable.

Auto-Ignition Temperature: Not applicable.

Decomposition Temperature: Not applicable.

Viscosity: Not applicable.

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#### STABILITY AND REACTIVITY

Reactivity: Inert solid under normal and anticipated storage, handling and use conditions. Chemical Stability: Stable solid under normal and anticipated storage, handling and use conditions.

**Hazardous Reactions:** None known. **Conditions to Avoid:** None known. Incompatible Materials: None known. **Decomposition:** Not applicable.

#### TOXICOLOGICAL INFORMATION

No acute or chronic health effects known in workers arising from short or long term exposure to this product. This product does not contain toxic substances above known reportable limits.

Symptoms related to physical, chemical and toxicological characteristics: None known.

Delayed and immediate effects and also chronic effects from short and long term exposure: None known.

Numerical measures of toxicity: None known.

#### **EXOLOGICAL INFORMATION**

This product is a naturally occurring mineral with no known ecotoxicity. It is insoluble in water and unlikely to contaminate waterways or food chains.

Stable and inert product which is not readily biodegradable.

This product is not bioaccumulating. Mobility in soil is below detectable limits.

## **DISPOSAL CONSIDERATIONS**

Follow local, state or federal guidelines for disposal of inert solid waste, e.g. for landfill.

Material contaminated or reduced to dust in use may need special handling and disposal. It is the responsibility of the user to undertake any evaluation classification and disposal of material after use.

#### TRANSPORT INFORMATION

**UN Number:** None allocated.

UN Proper Shipping Name: Not classified for transportation.

**Transport Hazard Class:** Not classed as dangerous under the ADG Code.

Packing Group: Not classified for transportation.

**Environment Hazards:** Not classified as a marine pollutant. Does not meet the criteria of 2.9.3.3.1

"Environmentally hazardous substances (aquatic environment)".

Personal Protection: None necessary. It is recommended to keep bags closed and dry bulk loads covered to prevent dust

generation and moisture incursion.

**Hazchem Code:** None allocated.

**Harmonised System** 

251320 Code:

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#### REGULATORY INFORMATION

No known additional regulations for this product.

GMA Garnet™ is exempt from the obligation to register under REACH legislation (EC 1907/2006) Annex V 7.

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Reach.

#### OTHER INFORMATION

This SDS has been prepared by Blast-One International from information supplied by GMA Garnet Pty Ltd and complies with the Safety Work Australian Code of Practice on the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011 and follows the Global Harmonized System of Classification and Labelling of Chemicals (the GHS).

As per Worksafe Guidance Note NOHSC 3017, each user should review the information in the specific context of the intended application.

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