# SAFETY DATA SHEETS

#### 1- Identification of the substance /preparation and of the company/undertaking

Sample Name LM Garnet

**Other Names** Garnet sand, almandine garnet, 1.2-2.4mm,12/20mesh,

20/40 mesh, 30/60 mesh,60 mesh, 80 mesh, 120 mesh,

150 mesh

**Recommended Use** blast cleaning abrasive, water jet cutting abrasive, water

filtration media

**Company Identification Blasting Experts** 

**Company Address** 343 Devonshire Terrace, L9G-4R1, Ancaster, Ontario

**Phone Number** +1 905 541 0997

**Email** mauricio.herrera@blastingexperts.com

#### 2- Hazards Identification

**Fatalness Grade** 

**Hazard Symbols** : /

**Invasion Route** : Ingestion

**Health Hazards** : Non Dangerous but Hazardous according to NOHSC: 1008(2004)

> The product as supplied contains traces of quartz (crystalline silica) which when used as an abrasive can break down to respirable dust size (particles small enough to go into deep parts of the lung when breathed in). Respirable crystalline silica is a listed carcinogenic substance which may

cause silicosis and cancer.

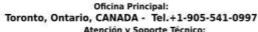
**Environment Hazards:** Basically harmless to the environment.

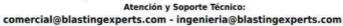
**Burn & burst Danger:** Non-flammable.















## 3 - Composition / Information on Ingredients

Substance □ Mixture □

Component/Substance	% by wt	CAS Number	EC Number
Almandine Garnet Fe <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	Greater than 97%	1302-62-1	/
Ilmenite FeTiO₃	Less than 1.0%	103170-28-1	/
Zircon ZrSiO <sub>4</sub>	Less than 0.2%	149040-68-2	/
Quartz SiO <sub>2</sub> (Crystalline Silica)	Less than 0.2%	14808-60-7	/

#### 4 - First Aid Measures

#### **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. Inhaled: 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.

#### **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.

#### **Swallowed**

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 irritation due to abrasiveness. Seek medical attention if symptoms develop.







Atención y Soporte Técnico:





### 5 - Fire-Fighting Measures

Flammability : Non-flammable.
Flashpoint : Non-explosive.

General Hazard : This product is non-flammable and does not support

combustion.

Extinguishing Media : Use media suitable for the material that is burning.

#### 6 - Accidental Release Measures

**Emergency treatment**: No special precautions necessary. Wear safety equipment as for normal handling. If possible, vacuum the material to avoid generating unnecessary dust, otherwise, sweep any spillages.

## 7 - Handling and Storage

**Handling** : No special precautions necessary.

Storing Notes : Storage areas should be ventilated and dust generation minimised when handling

loose bulk product. Use good housekeeping practices to keep dust to a minimum.

#### 8 - Exposure Controls / Personal Protection

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

(quartz) exceeded when the product is used for dry blast cleaning (respirable

dust is ≤ 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 with Australian Standards 1715 and 1716, 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.









### 9 - Physical and Chemical Properties

**Appearance** Pink/Red/Brown/black Odor Odourless

Solid sand.

PΗ 7.0 to 8.5 Vapour Pressure Not applicable.

**Boiling Point** Not applicable. Melting Point 1300°C

Radioactivity Not detectable above Solubility in Water Insoluble.

background levels.

**Specific Gravity** 3.9-4.1 Flammability Non-flammable.

Hardness 7.5 - 8.0 Mohs**Bulk Density** 1.9-2.4 t/m<sup>3</sup>

Particle Size depending on grade.

## 10 - Stability and Reactivity

**Chemical Stability** Stable and inert material under normal and anticipated storage, handling

and use conditions.

Conditions to Avoid None known. Incompatible Materials None known. Decomposition Not applicable.

Hazardous Reactions None known.

## 11 - Toxicological Information

**Acute Toxicity** No specific data for the Irritation No specific data for

product

No specific data for the Allergenicity No specific data for

product

the product

**Reproductive Toxicity** No specific data for the Carcinogenicity No specific data for

product

the product

the product



Mutagenicity









### 12 - Ecological Information

**Ecotoxicity** : No data available Persistence And Degradability: No data available **Bioaccumulative Potential** : No data available **MobilityIn Soil** : No data available **Other Harmful Effects** : No data available

## 13 - Disposal Considerations

**Nature Of Waste** 

**Waste Disposal Methods** Should refer to national and local regulations prior to disposal.

**Attention Abandoned** 

## 14 - Transport Information

**UN Number** /

**Shipping Name** No Classification

Packaging Group (if applicable) No

**Transport Attentions** Shipment to complete the packing, loading should be safe.

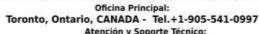
With no oxidant mixed mixed transport. Transportation should

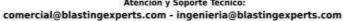
prevent insolation, rain, high temperature resistant.















# 15 - Regulatory Information

Regulatory Information: ISO 11014-2009

Safety data sheet for chemical products - Content and order of sections

GB/T 16483-2008

Safety data sheet for chemical products—Content and order of sections

GB 13690-2009

General rule for classification and hazard communication of chemicals

National Hazardous Waste List

GHS - Globally harmonized system of classification and labeling of

chemicals, third revised edition.

#### 16 - Other Information

**Date** : Oct. 23, 2017

Data Audit Units: EMTEK (SUZHOU) CO., LTD

Abbreviation : EC European Inventory of Existing Commercial chemical Substances CAS :

Chemical Abstracts Service (division of the American Chemical Society)

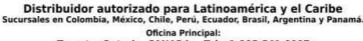
**Term**: NA: Not applicable

**Other Information:** The above information based on accurate data, because this information may be applied under conditions beyond our control, or is modified, and we do not bear any responsibility. This information determines the purpose of the case of proprietary materials and configurations in the recipient.

Declaration: Report EG171016103C01MVer.1 was repealed and replaced by EG171016103C01MVer.2







Oficina Principal:
Toronto, Ontario, CANADA - Tel.+1-905-541-0997
Atención y Soporte Técnico:
comercial@blastingexperts.com - ingenieria@blastingexperts.com



