HEALTH AND SAFETY DATA SHEET
GARNET- COMMERCIAL

Product and Reference: Garnet Natural Mineral
Date of Issue: 7/10/2016

1. IDENTIFICATION OF THE PREPARATION AND COMPANY
Company: N.A.ROBSON LTD

Product Code: Garnet – Commercial
Intended Use: Abrasive blasting media

Distributor name & address:

N.A. ROBSON LTD
ROBSON WAY
HIGHFURLONG
BLACKPOOL
FY3 7PP

www.blastsparesdirect.com
na.robson@btconnect.com
01253 393406

2 **HAZARD IDENTIFICATION**

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.

Main Hazards Dust from handling operations

Do not breathe dust liberated from used / blasted product. May have become contaminated by use.

Health Effects – Eyes Dust may cause slight transient irritation.
Health Effects – Skin Repeated or prolonged contact may produce irritation.
Health Effects – Ingestion none known
Health Effects – Inhalation Exposure to dust may have the following effects:-irritation of nose, throat and respiratory tract

3. COMPOSITION / INFORMATION ON COMPONENTS

Hazardous Components in Product for EC –no hazardous components. The material is a synthetic mineral with a strongly bonded matrix structure of different elements produced by quenching molten slag into cold water.

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Component Name	Codes	Concentration %
Silica Oxide	SiO^2	36.00
Calcium Oxide	CaO	1.00
Aluminium Oxide	$Al^2 O^3$	22.50
Iron Oxide	FeO	34.00
Magnesium Oxide	MgO	7.50
Manganese Oxide	MnO	1.00

All other elements are trace elements.
There is analytically no free silica in this product

4. **FIRST AID MEASURES**

No acute or chronic health effects known in workers arising 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. Ingestions of large 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 sterile 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.

5. FIRE FIGHTING MEASURES

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

Extinguishing media: Non-flammable.
Use media suitable for the surrounding material

Specific hazards arising from the chemical None known

Special protective equipment and precautions: No specific procedures given.

6. ACCIDENTAL RELEASE MEASURES

No special precautions are necessary:

Personal Precautions:

Wear safety equipment for normal handling

Environment Protection:

The material should not be dumped in nature but collected and
disposed of in accordance with local, state or federal guidelines.

Cleaning Up Methods:

If possible vacuum the material to avoid generating unnecessary dust, or sweep and shovel up any spillages.

7. HANDLING AND STORAGE

Handling:
Avoid breathing dust and spillage whilst handling.
The Manual Handling Operations Regulations may apply to the
handling of bags when carrying out assessments.

Storage:
The storage and use of this product is not subject to any requirements but it should be kept dry where this is important for further process use.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Control parameters / Exposure Standards
Total Dust - Less than 10 mg per cubic metre 8h TWA
Respirable dust -Less than 4 mg per cubic metre 8h TWA

Engineering Controls

Maintain ventilation and/or dust collection to reduce exposure to dust generated during handling and use. 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 and air fed abrasive blast hood conforming with Australian standards 1715 and 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. Wear suitable clothing. All Personal Protective Equipment, include Respiratory Protective Equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid, angular pink/ red granules
Odour	None
Explosion Limits (%)	None
Flash point:	None
Solubility in water (kg/m3)	Insoluble
Density (kg/m3)	2400 kg
Hardness	7 – 8 mohs
Specific gravity	4.0 –4.1 kg/dm

10. STABILITY AND REACTIVITY

Reactivity	Inert solid under normal handling and use conditions.
Chemical Stability	Stable under normal storage handling and use conditions
Possibility of hazardous reactions	None known
Conditions to avoid	None Known
Incompatible materials	None Known
Hazardous Reaction	None Known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:
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 measure of toxicity: None known

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

Persistence and degradability: Stable and inert product which is not readily biodegradable

Bioaccumulative potential; this product is not bio accumulating

Mobility in soil: Below detectable limits

Other adverse effects: None known

13. DISPOSAL CONSIDERATIONS

Disposal Methods:
Follow local guidelines for disposal of inert solid waste e.g. for landfill
According to local regulations for used abrasive European Waste Code (EN 12 01 17) 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.

14. TRANSPORT INFORMATION

UN Number None allocated
UN Proper shipping name Not classified for transportation
Transport hazard class(es) Not classed as Dangerous under the ADG Code.
Packing Group Not classified for transportation
Environmental hazards;
Not classified as a marine pollutant. Does not meet the criteria of 2.9.3.3.1 environmentally hazardous substances (aquatic environment)

Special precautions for user;
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
ECCN Number EAR99

15. REGULATORY INFORMATION

The information contained in this safety data sheet does not constitute the suppliers own assessment of workplace risks as required by other Health and Safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications, and we do not accept any liability for any loss or damage, however arising, which may result directly or indirectly from the use of this information.
Further information and relevant advice can be found in:

- Control of Substances Hazardous to Health (COSHH) Regulations 2002 (2005)
- European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation)
- The Manual Handling Operations Regulations 1992 (SI 1992:2793)
- The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992-2839)