

# PRODUCT INFORMATION SHEET

**Product and Reference:** Garnet Natural Mineral

**Date of Issue:** 01/06/2009

## 1. Identification of the Preparation and Company

**Company:** Key Abrasives Ltd

**Product Code:** Keygarn

**Intended Use:** Abrasive and water jet cutting mineral

**Name and full address:** Key Abrasives Ltd, Wenric House, Orchard Croft, Bawtry, Doncaster, DN10 6SL

**Telephone Number:** 01302 714517

**Emergency Phone Number:** 07831 368273

## 2. 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.

Component Name	Codes	Concentration %
Silica Oxide	SiO <sup>2</sup>	36.00
Calcium Oxide	CaO	1.00
Aluminium Oxide	Al <sup>2</sup> O <sup>3</sup>	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.

### 3. HAZARD IDENTIFICATION

Main Hazards	Dust from handling operations
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,
Radioactivity -	Emits up to normal background levels

### 4. FIRST AID MEASURES

#### **General:**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### **Inhalation:**

Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

#### **Skin Contact:**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner.

#### **Ingestion:**

Mouth rinse and give water to drink.

#### **Eye:**

Eye wash with plenty of water.

### 5. FIRE FIGHTING MEASURES

#### **Extinguishing media:**

Water

### 6. ACCIDENTAL RELEASE MEASURES

#### **Recovery measures:**

Product can be swept up dry or wet. Personnel should use appropriate personal protective equipment particularly if material is in powder form and dry.

## 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

### **General:**

- a) Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under supervision.
- b) Persons with a history of skin sensitisation problems should only be employed in processes in which this product is used under appropriate medical supervision.

### **Engineering Measures:**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction during process use.

### Occupational Exposure Standards:

- |                    |  |
|--------------------|--|
| 1. Total dust      | Less than 10 mg per cubic metre 8h TWA |
| 2. Respirable dust | Less than 4 mg per cubic metre 8h TWA  |

### **Personal Protection:**

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.

### **Respiratory Protection:**

Air-fed respiratory protective equipment should be worn when this product is shotblasted. This should be in addition to the other measures taken to reduce exposure (eg, in booth design and operation and process modifications). Non-essential and unprotected people should be excluded from the area if exposure is possible.

### **Hand Protection:**

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection.

### **Eye Protection:**

Eye protection designed to protect against exposure which should be an EC approved helmet in blasting operations.

### **Skin Protection:**

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Solid, angular pink/ red granules
Odour	None
Explosion Limits (%)	None
Flash point:	None
Solubility in water (kg/m <sup>3</sup> )	Insoluble
Density (kg/m <sup>3</sup> )	2400 kg
Hardness	7 –8 mohs
Specific gravity	4.0 – 4.1 kg/dm

## **10. STABILITY AND REACTIVITY**

Stability	Stable under normal conditions
-----------	--------------------------------

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity	No relevant studies identified
Irritancy - Eyes irreversible local damage	Splashes in the eye may cause irritation and
Irritancy - Skin	Repeated or prolonged contact with the product may lead to skin irritation

Sub-acute/Subchronic Toxicity	No relevant studies identified.
Chronic Toxicity/Carcinogenicity	Appropriate protective measures and good hygiene practices should be followed in order to minimise potential exposure.
Genotoxicity	No relevant studies identified.
Reproductive/Developmental Toxicity	No relevant studies identified
Human Data	Inhalation over long periods of time may constitute a health hazard
Additional Data	None

## 12. **ECOLOGICAL INFORMATION**

There is no data available on the product itself. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

## 13. **DISPOSAL CONSIDERATIONS**

The material in its supplied form is non hazardous inert solid waste and is classified as such under Appendix A section of the Consolidated European Waste Catalogue EC Landfill Directive ( 16 th July 2004 ),

The disposal of material after it has been used may cause the product to fall into a different category.

## 14. **TRANSPORT INFORMATION**

UN Number	Not regulated
ADR/RID substance ID number	Not regulated
IMDG	Not regulated
Tremcard No. TEC ®	Not regulated

## 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: The Control of Substances Hazardous to Health Regulations 1988 (SI 1988. 1657).

The Manual Handling Operations Regulations 1992 (SI 1992:2793)

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992-2839).