

# PRODUCT INFORMATION SHEET

**Product and Reference:** Solid glass beads

**Date of Issue:** 14/02/2018

## 1. Identification of the Preparation and Company

**Product Code:** Keybead

**Intended Use:** Shot peening, abrasive cleaning and road marking

**Name and full address:**

Key Abrasives Ltd, Clevedale, Bawtry Road, Austerfield, Doncaster, DN10 6QW

***Telephone Number: 01302 714517***

**Emergency Phone Number: 07831368273**

## 2. Composition/Information on components

Hazardous Components in Product for EC – no hazardous components.

| Component Name             | Codes             | Concentration     |
|----------------------------|-------------------|-------------------|
| Silica Oxide               | SiO <sup>2</sup>  | 70-75 %           |
| Sodium Oxide               | Na <sup>2</sup> O | 12-15 %           |
| Calcium Oxide              | CaO               | 8-10 %            |
| Magnesium Oxide            | MgO               | 0 – 5 %           |
| Heavy metal trace elements |                   | less than 200 ppm |

## 3. **HAZARD IDENTIFICATION**

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Main Hazards                | Dust from handling operations                                                                          |
| Health Effects - Eyes       | May cause irritation.                                                                                  |
| Health Effects - Skin       | May cause irritation                                                                                   |
| Health Effects - Ingestion  | None known                                                                                             |
| Health Effects - Inhalation | Exposure to dust may have the following effects:-<br>irritation of nose, throat and respiratory tract, |

#### 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 for at least 15 minutes with the eyelids kept open.

#### 5. **FIRE FIGHTING MEASURES**

**Extinguishing media:**

Water

#### 6. **ACCIDENTAL RELEASE MEASURES**

**Recovery measures:**

Material should be kept stored in sealed bags, if spilt it constitutes an extreme slip hazard

Product can be vacuumed or 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. Avoid contact with eyes and use in well ventilated areas.

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 impossible.

**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, round and clear |
| Odour                                    | None                   |
| Explosion Limits (%)                     | None                   |
| Flash point:                             | None                   |
| Solubility in water (kg/m <sup>3</sup> ) | Insoluble              |
| Density (kg/m <sup>3</sup> )             | 1325                   |
| Hardness                                 | 6 mohs                 |
| Specific gravity                         | 2.5                    |
| Melting Point                            | 1130 C                 |
| Softening Point                          | 730 C                  |

## **10. STABILITY AND REACTIVITY**

|                     |                                |
|---------------------|--------------------------------|
| Stability           | Stable under normal conditions |
| Conditions to avoid | None                           |
| Materials to avoid  | Hydrofluoric acid              |

## **11. TOXICOLOGICAL INFORMATION**

|                                     |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity                      | No relevant studies identified                                                                                         |
| Irritancy - Eyes                    | Splashes in the eye may cause irritation                                                                               |
| 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                                                    |

