

# Safety Data Sheet

Issue Date: Jun.1<sup>st</sup>, 2019

Validity: 10 Years

## Ceramic Beads

### 1 Identification of the substance/mixture and of the company/undertaking

-**Trade name:** Ceramic Beads for shot blasting and peening, Zirconia Beads

-**Application of the material:** Surface Treatment and/or Preparation

-**Details of the supplier of the Material:**

Luoyang Zhongsen Refractory Co., Limited

South Dukang Road, Yichuan, Luoyang, Henan Province, China

EMAIL: [info@zhongsen-refractory.com](mailto:info@zhongsen-refractory.com)

-**Emergency Telephone No.:** 0086-379-69351288

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

This material is not classified as dangerous according to the GHS(The Global Humanized System of Classification and Labelling of Chemicals).

#### 2.2 GHS Label elements

Pictogram(s): No pictogram is used.

Signal Word: No signal word is used.

Hazard Statement: No hazard statement.

Precautionary Statement: No precautionary statement.

#### 2.3 Other hazards

No additional information available.

### 3 Composition/information on ingredients

#### 3.1 Substance

Material Name/Chemical Content	%	CAS No
Aluminium Oxide	7-13	1344-28-1
Zirconium Dioxide(ZrO2)	62-66	1314-23-4
Silica Glass(SiO2)	25-30	65997-17-3

### 4 First aid measures

#### 4.1 Description of first aid measures

Inhalation:

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion:

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact: Wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

#### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Skin contact: No specific symptoms noted.

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Eye contact: No specific symptoms noted.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5 Firefighting measures

### 5.1 Extinguishing media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None under normal conditions

### 5.3 Advice for firefighters Special firefighting procedures:

Use self-contained breathing apparatus(SCBA) and full bunker turnout gear in a sustained fire.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate area. Avoid dust generation. Avoid inhaling dust. Use suitable personal protective equipment.

### 6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities, while it's not harmful to the environment recycling.

### 6.3 Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimize the risk of inhalation of dust.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original closed container.

## 8 Exposure controls / personal protection

### 8.1 Exposure Limits

Substance	CAS No.	OSHA PEL	NIOSH REL	ACGIH
Silica: Crystalline	-	250 million particles per cubic meter(resp.) 30 mg/cm <sup>3</sup> (total) 10 mg/cm <sup>3</sup> (resp.)	Ca 0.05 (resp.)	0.025 mg/cm <sup>3</sup> (resp.) for -quartz and cristobalite
Zirconium compounds (as Zr)	7440-67-7	TWA: 5 mg/cm <sup>3</sup>	TWA: 5 mg/cm <sup>3</sup> STEL: 10 mg/cm <sup>3</sup>	TWA: 5 mg/cm <sup>3</sup> STEL: 10 mg/cm <sup>3</sup>

### 8.2 Exposure controls

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Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment: No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.

Hand protection: No specific hand protection noted, but gloves may still be advisable.

Eye protection: Wear dust resistant safety goggles where this is a danger of eye contact.

Other protection: Provide eyewash station.

Hygiene measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.

## 9 Physical and chemical properties

### 9.1 Information on basic and physical and chemical properties Appearance:

Spherical Shape, dust

Colour: White

Odour: Odourless

Solubility: Insoluble in water

## 10 Stability and reactivity

**10.1 Reactivity** No specific reactivity hazards associated with this product.

**10.2 Chemical stability** Stable under normal temperature conditions.

**10.3 Possibility of hazardous reactions** Not relevant

**10.4 Conditions to avoid** No specific conditions are likely to result in a hazardous situation

**10.5 Incompatible materials Materials to avoid:** No specific, or groups of materials, are likely to react to produce a hazardous situation.

**10.6 Hazardous decomposition product:** None under normal circumstances

## 11 Toxicological information

### 11.1 Information on toxicological effects

Other health effects: This substance has no evidence of carcinogenic properties.

Acute toxicity

Acute toxicity (Oral LD50): Not relevant

Acute toxicity (Dermal LD50): Not relevant

Acute toxicity (Inhalation LC50): Not relevant

Inhalation: Dust in high concentrations may irritate the respiratory system.

Ingestion: May cause discomfort if swallowed.

Skin contact: Powder may irritate skin.

Eye contact: Particles in the eyes may cause irritation and smarting.

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## 12 Ecological information

**Ecotoxicity:** Not regarded as dangerous for the environment.

**12.1 Acute fish toxicity:** Not considered toxic to fish.

### 12.2 Persistence and degradability

**Degradability:** The product is not readily biodegradable.

**12.3 Bio accumulative potential:** The product is not bioaccumulating.

**12.4 Mobility in soil:** Not relevant, due to the form of the product.

### 12.5 Results of PBT and vPvB assessment:

This product does not contain any PBT or vPvB substances.

**12.6 Other adverse effects:** Not known

## 13 Disposal considerations:

Dispose of waste and residues in accordance with local authority requirements

## 14 Transport considerations

Road transport notes: Not classified

Rail transport notes: Not classified

Sea transport notes: Not classified

Air transport notes: Not classified

**14.1 UN Number:** The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.2 UN proper shipping name:** Not classified for transportation.

**14.3 Transport and hazard class(es):** Not classified for transportation.

**14.4 Packing group:** Not classified for transportation.

### 14.5 Environmental hazards

Environmentally hazardous substances / marine pollutant: no

**14.6 Special precautions for user:** Not classified for transportation.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Approved code of practice: Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes: Workplace Exposure Limits EH40.

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**15.2 Chemical Safety Assessment:** Not applicable. No chemical safety assessment has been carried out.

## **16 Other Information**

**IMDG Transport Information:** This material is not dangerous goods according to IMDG transportation regulations.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing laws and regulations have to be observed by the receiver on its own responsibility.

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