

MATERIAL SAFETY DATA SHEET

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Issued: Oct.10,2019

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY / UNDERTAKING

Product Name: GLASS BEADS
Company: Shandong Renwa Abrasive Tech. Co.,Ltd
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Zibo, Shandong
China
Tel: +86-533-2802598
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances by Weight (%):

Silicon Dioxide	SiO ₂	72.81%
Sodium Oxide	Na ₂ O	13.35%
Calcium Oxide	CaO	8.74%
Magnesium Oxide	MgO	1.15%
Potassium Oxide	K ₂ O	0.72%
Aluminum Oxide	Al ₂ O ₃	2.62%
Ferric Oxide	Fe ₂ O ₃	0.18%

3. HAZARDS IDENTIFICATION

As shipped, this product does not pose any health hazard because it does not contain ingredients which are known to cause immediate or serious effects.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: No Symptoms.
Inhalation: Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTIONS)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for at least 15 minutes.
Also rinse under the eyelids. If irritation persists, consult a specialist.
Ingestion: Wash out mouth with water.
Inhalation: Remove to fresh air.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Non-Flammable substance, not applicable. Suitable extinguishing media for the surrounding fire should be used.
Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to section 8 below for personal protection details.
Clean-Up Procedure: Transfer to a suitable container. Material can create slippery conditions underfoot. Avoid creating dust.

7. HANDLING AND STORAGE

Handling Requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid the formation or spread of dust in the air.
Storage Conditions: Store in cool, well ventilated area. Keep bottles tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Methods: Ensure there is exhaust ventilation of the area.
Respiratory Protection: Respiratory protective device with particle filter.
Hand protection: Protective gloves.
Eye Protection: Safety glasses. Ensure eye bath is to hand.
Skin Protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Solid Sphere
Colour: White and transparent.
Odour: Odourless.
Melting Point/Range°C: Approximately 730°C
Relative Density: 2.4-2.6 g/cm³ (20°C)

10. STABILITY AND REACTIVITY

The product is stable and non-reactive under normal conditions. This product will react with hydrofluoric, fluorosilicic, and phosphoric acids to produce corrosive gases. Hot, strong alkaline solutions will react with this product also.

11. TOXICOLOGICAL INFORMATION

As with any abrasive material, this product is irritating to skin and eyes. May be irritating to respiratory tract. Ingestion (acute/chronic) may be irritating to the digestive tract. Irritation is described as reversible inflammation. The potential hazard of solid particles depends on particle size and concentration per cubic metre of air.

Particle size: Inhalable (< 100 µm) – when deposited anywhere in the respiratory tract
Thoracic (< 25 µm) – when deposited anywhere within the lung airways and the gas-exchange region
Respirable (< 10 µm) – when deposited in the gas-exchange region

The following Threshold Limit Values (TLV's) refer to airborne concentrations of constituents in this product (and their effects as described by the ACGIH):

OSHA PEL – Permissible Exposure Limit (mg/m³)
ACGIH TWA – Time Weighted Average (mg/m³)
STEL/C – Short-term Exposure Limit / Ceiling (mg/m³)

12. ECOLOGICAL INFORMATION

Mobility: No data available.
Persistence and degradability: No data available.
Bioaccumulative Potential: No data available.

[cont...]

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13. DISPOSAL CONSIDERATIONS

Disposal Operations: Contact waste disposal services.
Disposal of Packaging: Contact waste disposal services.
NB: The users attention is drawn to the possible existence of regional or national regulations regarding disposal.

Pickup and reuse clean materials, avoiding dusting situations. Dispose of waste materials only in accordance with applicable federal, state, and local laws and regulations. This product is not hazardous as a waste. Check with local landfills before disposing in trash. Dispose of in closed containers to avoid dusting.

14. TRANSPORTATION INFORMATION

DOT Hazard Classification: None

Placard Required: None

Label Required: use original label including all warnings. When disposing of this material in its pure form use a DOT "Non-Hazardous Waste" label.

This material is classified as "non-hazardous" according to U.S. and international shipping regulation.

15. REGULATORY INFORMATION

Hazard Symbols: No significant hazard.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other Information: Complies with Directives (2001/58/EC), (1999/45/EC), (91/155/EEC), (67/548/EEC) as amended and Chemicals (hazard information and packaging for supply) 2002 (CHIP3) Regulation, EH40.

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