



Material Safety Data Sheet

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Glass Bead With Refractive Index 2.2nd

MSDS Number: 22195 Effective Date: 2022-02-20

1. Product Identification

Synonyms: Glass Microspheres; Reflective Glass Bead

CAS No.: TiO₂: 13463-67-7 BaO:1304-28-5 ; ZnO:1314-13-2;

Chemical Formula: BaO-ZnO-TiO₂

Product Codes: ND2.2

Size: 10-100 um

REACH Registration Number: This product is exempted from registration according to regulation(EC) No 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and Regulation (EC) No. 1272/2008

Relevant identified uses of this substance and uses advised against

Raw material used for reflective sheeting, film, ink, paint,cosmetic(mainly nail oil).

Details of the supplier of the Safety Data Sheet

Manufacture: JINAN GREAT MATERIAL CO., LIMITED

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2. Composition/Information on Ingredients

Substance? Y/N * : if "Y" then substance name: Baryta& Zinc oxide & Titanium dioxide TiO₂ 55% BaO 29% ZnO 10%

CAS number:..... TiO₂: 13463-67-7 BaO: 1304-28-5; ZnO: 1314-13-2

3. Hazards Identification

Toxicity: No toxicity, and no stimulative effects on skin and mucous membrane.

Heavy metal content: Ba<1000ppm Pb<90ppm As<25ppm

The most important hazards are: powder with productions

4. First Aid Measures

Immediate medical attention required? Y/N* : N

Professional assistance from physician required? Y/N* : N

Summary of first aid is as follows:

Inhalation: It does not need the first aid measures because they are avirulent and non-irritant,
you should see the doctor if you have inhaled too much.

Skin contact: You can wash off with water after contact.

Eye contact: You can wash off with water after contact at once.

Ingestion: It does not need the first aid measures because they are avirulent and non-irritant,
you should see the doctor if you have ingested too much.

5. Fire-Fighting Measures

Suitable extinguishing media: It is noncombustible and non-self-ignite, the poisonous
matter can not be released by burning, so it does not need
the fire-fighting measures.

Unsuitable extinguishing media: /

Special exposure hazards in fire: /

Required special protective equipment for fire fighters: /

6. Accidental Release Measures

Personal precautions: It is necessary to equip you with a spirator to avoid to inbreathe.

Environmental precautions: Control the flying of pearl pigments powder

Methods for cleaning: You can clean it up directly with water.

7. Handling and storage

Handling: Railage \ autocar conveyance\Avigation transportation\Packing non-dilapidation\
Moistureproof

Storage: hold dryness

8. Exposure Controls

Take measures to prevent: install dust equipment

Exposure control limits and source: regular

Respiratory protection: It is necessary to equip you with a respirator to avoid to inbreathe.

Hand protection: unnecessary

Skin protection: unnecessary

Eye protection: equip you with a blinder to against dust

9. Physical and Chemical Properties

Appearance: white, free flowing powder

Odour: naught

PH: 5-7

Boiling point/boiling point range: upwards 900°C

Melting point/melting point range: upwards 900°C

Flashpoint(°C)show closed or open cup: naught

Flammability (gas/solid): noncombustible

Auto-flammability: non-self-ignite

Explosive properties: naught

Oxidizing properties: naught

Vapour pressure: naught

Relative density: Approximately $4.5 \pm 0.2 \text{ g/cm}^3$

Solubility (water and fat): No soluble in water or solvent

Chemical resistance: acid and alkali resisting.

10. Stability and Reactivity

Conditions to avoid: naught. It has a good stability in the condition of chemical (like Water/ impregnant/acid/alkali etc.)and high temperature, the reaction on other matters is insoluble.

Materials to avoid: naught

Hazardous decomposition products: naught

11. Toxicological information:

Concise description of toxicological properties follows, including any special health effects of constituents: It is avirulent and has a good stability in the condition of chemical (like the water/impregnant/acid/ alkali etc.). There are not any deleterious matters. Even now, you should

avoid to inbreathe to the best of your abilities because it is hard to be absorbed and decomposed for your body.

12. Ecological Information

Possible effects: A great lot of rise can increase the powder consistence in the air.

Behavior: It is easy to rise along with the air current.

Environmental fate: the pollution of powder

Note: Consider mobility, degradability, accumulation, and short and long term effects.

Note: For preparations, indicate data relevant to constituent substances classified as dangerous for the Environment.

13. Disposal Considerations

Likely residues/waste product (if any): naught

Safe handing of any waste products: naught

14. Transport Information

Special carriage precautions in carriage (on-site or externally): To tie up the packing bag against dampness

15. Other information

Label requirements

Label Required:

Common Name:

Chronic Hazard: naught

Acute Health Hazard-Slight: naught

Contact Hazard-Slight: naught

Fire Hazard-None: naught

Reactivity Hazard-None: naught

Special Hazard Precautions: PARTICULATE DUST HAZARD

MOUTH MAY RESULT FROM EXCESS DUST. CHRONIC: NONE LISTED BY MANUFACTURER.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name:

Label Street:

Label City:

Label Zip Code:

Label Country:

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.