HUGE 沪鸽

Safety Data Sheet

Product Name：Zirconia Block
Revised：2025.01.08
Initial Preparation Date :2014.11.12

Referde to GB/T16483、GB/T17519
SDS number：HGD/QT-YHG-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Chinese names of chemicals :全瓷义齿用氧化锆瓷块
English names of chemicals: Zirconia Block
Company Name: Shandong Huge Dental Material Corporation
Address: No.68 shanhai Road, Donggang District Rizhao City
City, State, Zip Code: Shandong Province, 276800, P.R.China
Telephone:0633-2277268
Website:www.hugedental.com
Relevant identified uses of the substance or mixture and uses advised against: The product is used for making the crowns, bridges (AT, GM≤3 units), inlays and veneers of the fixed partial denture.

SECTION 2: Hazards identification

GHS risk categories: Not applicable

Label elements: No risks worthy of mention.

Physical and chemical hazards: Stable

Health hazards:

Inhalation:Silicosis may occur when large amounts of dust are inhaled.

Eye contact: Contact may irritate the eyes.

Skin contact: Contact may irritate the skin.

Ingestion: When consuming large amounts of dust, it may stimulate the respiratory tract or the stomach.

Other Health Effects**:** No other information noted.

Environmental hazards: Not regarded as dangerous for the environment.

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients

Chemical characterization

Main components: ZrO_2：80.1-85.5%, Y_2O_3 ：4.5-9.9%，

Chemical Name	CAS#	Concentration(%)
Hafnium oxide	12055-23-1	≤5
Yttrium oxide	1314-36-9	4.5-9.9
Zirconium Oxide	1314-23-4	80.1-85.5
Else	/	≤5
When processed under normal conditions of use, no health hazards are expected.		

SECTION 4: First aid measures

After inhalation:

Move to fresh air. If irritation occurs or persists, consult a doctor.

After contact with skin:

Remove contaminated clothing and shoes, and rinse your skin thoroughly with soap and water. If you feel unwell, seek medical attention.

After contact with eyes:

Open the eyes, rinse with flowing water for a few minutes, and consult a doctor if the symptoms persist.

After ingestion:

Rinse your mouth thoroughly with water and consult a doctor if the symptoms persist.

Most important symptoms and effects, both acute and delayed:

None known.

Indication of any immediate medical attention and special treatment needed:

Hazards: No specific recommendations.

Treatment: No specific recommendations.

SECTION 5: Firefighting measures

Suitable extinguishing media

Extinguishing with water spray, dry powder or carbon dioxide.

Notes

In the event of a fire, self-contained breathing apparatus and full protective clothing must be worn.

Isolate the scene of the accident and prohibit unrelated personnel from entering.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Commonly used protective clothing, dust masks, PVC gloves, dust removal devices.

Avoid dust generation.

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Sweep and shovel out. Place in a suitable closed container to be disposed of。

SECTION 7: Handling and storage

Precautions for safe handling

Operators should be specially trained and strictly follow the operating procedures.

The use of personal protective equipment such as gloves, masks, and lab coats is recommended to avoid prolonged contact with or irritation of the skin and eyes during processing.

When handling, it is necessary to load and unload lightly to prevent damage to the packaging and containers

Precautions for storage:

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place

SECTION 8: Exposure controls/personal protection

Exposure controls

Not expected to pose a health hazard when processed under normal conditions.

Engineering control

Workplaces are recommended to be separated from other places, ventilation is provided and good occupational hygiene practices are maintained.

Individual protective equipment

General information: Personal protective equipment such as gloves, masks, and lab coats are recommended.

Eye/face protection: Safety Glasses&masks.

Hand protection: Use of protective gloves.

Other: Use protective clothing.

Respiratory Protection: Turn on the dust removal device during processing to avoid inhaling dust.

Hygiene measures:Provision of cleaning equipment.

SECTION 9: Physical and chemical properties

Appearance and properties:	white solid, odorless
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Vapor pressure:	No data available
Vapor density (air=1):	No data available.
Relative density:	No data available
Solubility in Water:	Slightly soluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available

SECTION 10: Stability and reactivity

Chemical stability: Stable

Possibility of hazardous reactions: Not applicable.

Conditions to avoid: No other information noted.

Incompatible materials: Not applicable.

Hazardous decomposition products: Not applicable.

SECTION 11: Toxicological information

Main components of the product: Zirconium Oxide

Acute toxicity: No effects expected (assessment based on ingredients).

Skin corrosion/irritation: No effects expected (assessment based on ingredients)

Irritation and corrosivity： No effects expected (assessment based on ingredients)

Germ cell mutagenicity: No effects expected (assessment based on ingredients).

Carcinogenicity: No effects expected (assessment based on ingredients).

Reproductive toxicity: No effects expected (assessment based on ingredients).

Specific target organ toxicity - single exposure: No effects expected (assessment based on ingredients).

Specific target organ toxicity - repeated exposure: No effects expected (assessment based on ingredients).

Aspiration hazard: No effects expected (assessment based on ingredients).

Other adverse effects: None known.

SECTION 12: Ecological information

Ecological Toxicity： No effects expected (assessment based on ingredients).

Persistence and degradability： Not applicable

Bioaccumulation potential: Not applicable.

Further information： Not applicable

SECTION 13: Disposal considerations

Waste Chemicals

Recycle as much as possible.

If recycling is not possible, dispose of the waste with appropriate treatment methods and facilities in accordance with applicable laws and regulations.

Contaminated packaging

Dispose of it with appropriate disposal and equipment in accordance with applicable laws and regulations.

Precautions for disposal

Users are reminded of possible local regulations regarding waste disposal.

See Section 8 for safety precautions for handling personnel.

SECTION 14: Transport information

Packaging category: Non-Dangerous Goods Packaging

Packaging mark: 

Packaging method: Inner packing: box; Outer packing: corrugated box

Marine pollutants (Yes/No): No.

Precautions for transportation:

Avoid severe extrusion, vibration, and hard collisions during transportation, movement, and storage.

SECTION 15: Regulatory information

National regulatory information

Chemical safety assessment:No data available

SECTION 16: Other information

Revisions compared to the previous version:

1. Modify SECTION 3: Composition/information on ingredients ;

2. Add SECTION 6: Accidental release measures: PVC gloves;

3.Add SECTION 14: Transport information:Packaging mark.

No further technical information

The present data sheet contains technical-scientific information processed at best of our knowledge.

We recommend validating national and regional regulations applicable to the specific field, as well as relevant work and environmental regulations, and relevant health and safety regulations.

All information contained in the present data sheet is correct and processed in good faith. However they do not involve any obligation, guarantee and patent concession.

The characteristics mentioned in the following document do not constitute contractual specifications.