

Safety Data Sheet

Glass Ionomer Cement

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

1.1. Product identifier

Glass ionomer cement

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company Name: Shandong Huge Dental Material Corporation
 Address: No.68 shanghai Road, Donggang District
 City, State, Zip Code: Rizhao City, Shandong Province, 276800, P.R.China
 Telephone: 86-633-2277268
 email address: marketing@hugedental.com
 Website: www.hugedental.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Health hazards

Inhalation: No specific symptoms noted.**Eye contact:** Serious Eye Damage/Irritation: Category 2A.**Skin contact:** No specific symptoms noted.**Ingestion:** No specific symptoms noted.**Other Health Effects:** No other information noted.**Environmental hazards:** Not regarded as dangerous for the environment.

2.2. Label elements

Signal : word: Warning.**Symbols:** Exclamation mark.**Pictograms:****Hazard Statements:** Causes serious eye irritation.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Mixtures

Chemical characterization

Powder

Hazardous components

Ingredient	C.A.S. No.	% by Wt
GLASS POWDER	65997-17-3	80 - 90 Trade Secret *
COPOLYMER ACRYLIC ACID-MALEIC ACID	29132-58-9	< 20 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

After contact with skin

Wash with soap and water. If signs/symptoms develop, get medical attention.

After contact with eyes

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

After ingestion

Rinse mouth. If you feel unwell, get medical attention.

Most important symptoms and effects, both acute and delayed

See Section 11.2. Information on toxicological effects.

Indication of any immediate medical attention and special treatment needed

Hazards: No specific recommendations.

Treatment: No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Material will not burn

Extinguishing media which must not be used for safety reasons

None known.

Advice for firefighters Special Fire Fighting Procedures

Water spray should be used to cool containers.

Special protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid eye contact. Avoid prolonged or repeated skin contact. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
GLASS POWDER	65997-17-3	Manufacturer determined	TWA(as dust):10 mg/m3	

8.2. Exposure controls

General information:

Use in a well-ventilated area.

Eye/face protection:

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Skin protection:

See Section 7.1 for additional information on skin protection .

Respiratory Protection:

Respiratory protection is not required.

Hygiene measures:

Provide eyewash station and safety shower.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical State:	Solid
Form:	powder
Color:	white
Odor:	Odorless
Odor Threshold:	No data available.
pH:	Not Applicable
Melting Point:	No data available.
Boiling Point:	Not Applicable.
Flash Point:	No flash point.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No Classified.
Flammability Limit - Upper (%)-:	Not Applicable.
Flammability Limit - Lower (%)-:	Not Applicable.
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	No data available
Solubility(ies)	
Solubility in Water:	Nil
Solubility (other):	No data available.
Common organic solvents.:	Not Applicable.
Aromatic hydrocarbons.:	Not Applicable.
Occupational exposure limits:	Not Applicable.
Aliphatic hydrocarbons.:	Not Applicable.
Acetone.:	Not Applicable

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Occupational exposure limits

Ethanol.:	Not Applicable.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity: No data available.	Not Applicable
Explosive properties:	No data available.
Oxidizing properties:	Not Applicable

SECTION 10: Stability and reactivity

10.1.Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2.Chemical stability

Stable

10.3.Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4.Conditions to avoid

None known..

10.5.Incompatible materials

None known.

10.6.Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

SECTION 11: Toxicological information

11.1.Information on toxicological effects

Acute toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000mg/kg
GLASS POWDER	Dermal		LD50 estimated to be > 5,000 mg/kg
GLASS POWDER	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
COPOLYMER ACRYLIC ACID- MALEIC ACID	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
COPOLYMER ACRYLIC ACID- MALEIC ACID	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE= acute toxicity estimate

Irritation and corrosivity

Name	Irritation/ corrosivity on skin	Irritation/ corrosivity on eye
Glass Powder	No effect	No effect
Copolmer Acrylic Acid-Maleic Acid	No effect	Serious Damage: Category 2A

SECTION 12: Ecological information

12.1 Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

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Occupational exposure limits

12.2 Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal Methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.
Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport information

UN number:	n.a.
class:	n.a.
packaging group:	n.a.
ocean harmful substances:	n.a.
other relevant information:	no hazardous good

SECTION 15: Regulatory information

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

National regulatory information

The product is subject to the regulations of the Medical Device Directive 93/42/EEC, as well as to the national Medical Device Act and the Chemicals Act.

SECTION 16: Other information

No further technical information.

The present data sheet contains technical-scientific information processed at best of our knowledge. We recommend verifying national and regional regulations applicable to the specific utilize field as well as regulations relative hygienic and safety on work and environment worship.

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.