HUGE 沪鸽

Safety Data Sheet

Product Name：PMMA BLOCK
Revision date：2025.01.06
Initial Preparation Date :2017.11.12

Referde to GB/T16483、GB/T17519
SDS number：HGD/QT-SZK-45
Version number：02

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

Chinese names of chemicals :临时冠桥树脂块
English names of chemicals:PMMA 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:0633-2277285
Website:www.hugedental.com
Relevant identified uses of the substance or mixture and uses advised against: Indications for Use:Temporary anterior and posterior crowns;Temporary anterior and posterior bridges;Implant surgical guide;Removable structures for dentures;Removable structures for therapeutic restorations (night guards, bite splints or occlusal splints).

SECTION 2: Hazards identification

GHS risk categories: Not classified
Label elements: No risks worthy of mention.
Health hazards:

Inhalation: When processed under normal conditions of use, no health hazards are expected
Eye contact: No specific symptoms noted.
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.

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

Product composition: This product is mainly composed of PMMA (96%~99.0%), Ethylene dimethacrylate (1%~4%), and else (0%~2%).

Ingredient name	C.A.S. #	WT %	Notes
PMMA	9011-14-7	96~99.0	-
Ethyldiol methacrylate	97-90-5	1~4	-
Else	Various	0~2	-

SECTION 4: First aid measures

After inhalation:

In case of trouble after inhaling abrasive dust, seek medical advice.

After contact with skin:

Remove contaminated clothing and shoes. Wash with soap and water.Seek medical advice if you feel unwell.

After contact with eyes:

In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes**.**

After ingestion:

Do not induce vomiting. Rinse mouth thoroughly.Seek medical attention if you are swallowing.

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

Extinguish with water,foam, carbon dioxide or dry powder.

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.

Special hazards caused by substances or mixtures: Combustible but not flammable. Combustion or thermal decomposition produces toxic, irritating, flammable vapors.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (coveralls, goggles, and masks) at work.

Avoid dust accumulation. Prevent inhalation of steam and aerosol.Eliminate all ignition sources.

Environmental precautions

There are no special environmental precautionary requirements.

Methods and material for containment and cleaning up

Handle operations in suitable containers to minimize dust in the air.

SECTION 7: Handling and storage

Precautions for safe handling

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

Product must be worked on with a local dust extraction system

Wear a face mask and protective glasses to prevent inhalation of grinding dusts, contact with eyes, skin or mucosa.

Clean up the site after the operation is completed to minimize the accumulation of dust.

General fire protection measures.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place away from light.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

It is not expected to pose a health hazard when processed under normal conditions of use.

Engineering control:

No specific engineering control measures

Exposure controls

General information: No specific precautions.

Eye/face protection: Use safety goggles when the product is ground or polished.

Other: No skin protection is ordinarily required under normal conditions of use..

Respiratory Protection: Use protective masks for grinding or polishing operations.

Hygiene measures: Equipped with a wash basin.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Appearance

Physical State:	Solid
Color:	multi-color
Odor:	Odorless
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	250.00℃
Ignition point:	458°C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)–:	No data available.
Flammability Limit - Lower (%)–:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	No data available.
Solubility in Water:	Insoluble
Solubility (other):	Insoluble.
Common organic solvents.:	Insoluble.
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: According to the data on the components Not considered as oxidizing.

(evaluation by structure-activity relationship)

SECTION 10: Stability and reactivity

Chemical stability: When stored and used in a normal environment, this product is stable.
Possibility of hazardous reactions: No data available.
Conditions to avoid: No other information noted.
Incompatible materials: Strong acid, strong oxidant.
Hazardous decomposition products: Decomposition may release carbon oxides, pungent fumes and odors.

SECTION 11: Toxicological information

Main components of the product:PMMA
Acute toxicity: No effects expected (assessment based on ingredients).
Skin corrosion/irritation: No effects expected (assessment based on ingredients)
Irritation or skin sensitization： Use with caution if one is allergic to acrylic resin materials.
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： No data applicable
Bioaccumulation potential: No data available
Further information: If the material causes hormonal effects or prevents them is unknown to us.

SECTION 13: Disposal considerations

Waste treatment methods:

Recycle whenever possible. If recycling is not possible, it can be disposed of together with household waste.

Dispose of wastes in accordance with applicable laws and regulations and environmental standards, using appropriate treatment methods and facilities.

General information

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

SECTION 14: Transport information

Packaging category: Non-dangerous Article

Packaging marking：   

Packing method: corrugated cardboard
Marine pollutants (Yes/No): No.
Precautions for transportation: Keep away from fire, heat source and high temperature area when stopping during transportation.

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， Increase the proportion of ingredients.
2. Add SECTION 5: Firefighting measures-Special hazards caused by substances or mixtures.
3. Modify SECTION 7: Handling and storage-modify Articles 2 and 3 of Operation Precautions.
4. Modify SECTION 9: Physical and chemical properties -- ignition point data .
5. Modify SECTION 11: Toxicological information--modify the expression of irritation or skin allergies.
6. Modify SECTION 14: Transport information ---packaging mark, packaging category.

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.