

# Safety Data Sheet

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

#### 1.1. Product identifier

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#### 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:** HUGE DENTAL MATERIAL CO.,LTD  
**Address:** Middle Shanhai Road , Rizhao City,  
**City, State, Zip Code:** Shandong,Province,276800,P.R.China  
**Telephone:** Tel: 86-633-2277268, Fax: 86-633-2277298  
**email address:** marketing@hugedental.com  
**Website:** www.hugedental.com

### SECTION 2: Hazards identification

#### 2.1. Product classification

May cause sensitisation by skin contact.

#### 2.2 Health Hazard

The product presents no toxic hazard when used according the manufacturer's instructions. If a patient is known to be allergic to any of the ingredients of the teeth, the product should not be used.

#### 2.3 Additional dangers to humans and the environment

See point 12.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

solid

##### Hazardous components

Polymethylmethacrylate with high molecular weight Methylmethacrylate  
Pigments: Iron oxide and Titanium dioxide

Hazardous Components	C.A.S. #	EINECS #	Substance Classification	WT %
Methyl methacrylate	000080-62-6	201-297-2	Not Applicable	<1.5

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

None.

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**After inhalation**

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

**After eye contact**

In case of mechanical eye irritation, rinse thoroughly with large amounts of water. Consult a doctor if irritation persists.

**After skin contact**

In case of dust contact with skin, wash off with soap and water. Consult a doctor if skin irritation persists.

**After swallowing**

In case of swallowing, seek medical advice.

**Cautions for the doctor**

No specific antidote. Effect support therapy. Care should be effected according doctor's evaluation with respect to the patient's reactions.

**Most important symptoms of exposure**

This product is a non-hazardous polymer solid. Dust generated from polishing or grinding may cause eye or respiratory tract irritation.

### SECTION 5: Firefighting measures

**5.1. Extinguishing media****Suitable extinguishing agents**

These products are not classified as flammable or combustible but will burn under fire conditions. Water spray jet, foam, dry powder, carbon dioxide

**For safety reasons unsuitable extinguishing agents**

Water with full jet.

**Protective equipment for fire-fighting**

Use self-contained respirator (breathing apparatus). -Wear full protection suit.

### SECTION 6: Accidental release measures

**6.1 Person-related safety precautions**

Avoid build up of dust. Use breathing protection (Fine dust mask FFP) when exposed to dust. Use personal protective equipment (overalls, protective glasses and protective gloves).

**6.2 Environmental Precautions**

Report releases as required by local and national authorities.

**6.3 Methods and Materials for Containment and Clean-up:**

Pick up teeth and return to container for use. For dust from grinding or polishing products: Contain spills, sweep or gather spilled material in a manner that minimizes the generation of airborne dusts, and transfer to a suitable container for disposal.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Avoid generating dust. Avoid breathing dust. Use adequate ventilation for polishing or grinding operations. Wash hands thoroughly after polishing or grinding teeth. Use good housekeeping to minimize accumulation of dust.

**7.2. Conditions for safe storage, including any incompatibilities**

No special storage required.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Exposure information

None.

#### 8.2 Technical devices

None.

#### 8.3 Personnel protective equipment

None.

#### 8.4 Respiratory Protection

No needed with normal usage. When product is grinded or polished, use localized aspiration of dusts and/or protective mask.

#### 8.5 Skin protection

None particular precaution should be taken with normal usage.

#### 8.6 Eye and visage protection

None particular precaution should be taken with normal usage. When the product is grinded or polished, use protective glasses.

### SECTION 9: Physical and chemical properties

Physical state at 20°C	solid
Color	various
Odor	unscented
Specific weight (at 20°C)	--
Solubility in water (at 20°C)	insoluble
PH (at 20°C)	--
Casting temperature	--
Boiling temperature	--
Auto ignition temperature	--
Inflammability temperature	--
Air deflagration limits	--

### SECTION 10: Stability and reactivity

#### 10.1 Dangerous reactions

No dangerous reactions known.

#### 10.2 Chemical Stability

Stable.

#### 10.3 Conditions to Avoid

Stable in normal conditions.

#### 10.4 Hazardous Decomposition Products

Decomposition may release oxides of carbon, methyl methacrylate, and irritating smoke and fumes.

#### 10.5 Materials to avoid

None in particular.

#### 10.6 Hazardous decomposition products

None when correctly utilized.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Sensitisation

Allergic reactions were reported among humans. The product contains small quantities of sensitising substances (methyl methacrylate). Intensive skin contact, especially with the dissolved product, can trigger an allergic reaction in persons previously sensitised.

##### Further information

The biocompatibility tests carried out on the teeth, in accordance with EN ISO 10993, regarding cytotoxicity, toxicity test, stimulate or intradermal reaction, acute systemic toxicity and delayed type, did not result in any negative effects, under the test conditions, on the cell materials used.

The fines which appear during sharpening can lead to mechanical irritations of the skin, eyes, and mucous membranes. Skin and eye contact with the product should be avoided. The inhalation of product dusts should be avoided.

### SECTION 12: Ecological information

#### 12.1 Degradation

The material is known to be stable in environment. Due to the low biodegradability the product should not reach water or ground.

#### 12.2 Aquatic toxicity

Insoluble. No dangers for environment are known.

### SECTION 13: Disposal considerations

#### 13.1. Recommendation

The waste is not dangerous and can be disposed together with household garbage. Disposal area must comply with the environment and national safety standard.

### 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

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

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## 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.

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*The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.*