

Safety Data Sheet

Denture Base Polymer—Powder

Page 1 of 4

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

1.1. Product identifier

Denture Base Polymer—Powder

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. 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 Denture Base Polymer, the product should not be used.

2.3 Additional dangers to humans and the environment

See point 12.

SECTION 3: Composition/information on ingredients

3.1. Mixtures

Chemical characterization

Stable. Incompatible with strong oxidising agents

Hazardous components

Polymethylmethacrylate with high molecular weight Methylmethacrylate

Pigments: Iron oxide and Titanium dioxide

Hazardous Components	C.A.S. #	EINECS #	Substance Classification	WT %
Polymethyl Methacrylate	9011-14-7	618-466-4	Not Applicable	>99

SECTION 4: First aid measures

4.1. Description of first aid measures

Safety Data Sheet

Denture Base Polymer—Powder

Page 2 of 4

After inhalation

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

After skin contact

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

After eye contact

Unlikely. If dust occurs, rinse eyes with water. If discomfort persists seek medical care.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents

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

No particular precautions.

6.2 Environmental Precautions

Avoid dispersion.

6.3 Methods and Materials for Containment and Clean-up:

Collect with mechanical means.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions on safe handling

Ensure the area is well ventilated.

Take precautions against electrostatic discharges.

Observe directions on label.

Keep away from source of ignition - do not smoke.

Only use working methods according to operating instructions.

Eating, drinking, smoking, as well as food storage, is prohibited in work room.

Information on fire and explosion protection

Keep away from sources of ignition - no smoking.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep only in the original container at a temperature not exceeding 40°C. Keep container close after use.

Safety Data Sheet

Denture Base Polymer—Powder

Page 3 of 4

SECTION 8: Exposure controls/personal protection

8.1 Do not breathe dust

MAK - Value/ TRK - Value/ BAT Value 6 mg/m³

8.2 Personal protective equipment

8.3 General protective measures

Do not inhale dust.
Avoid contact with eyes and skin.

8.4 Hygiene measures

Store work clothing separately.
Follow the usual good standards of occupational hygiene.

8.5 Respiratory Protection

Breathing masks to be used if dust concentration exceeds 6mg/m³
Breathing masks with fine dust filters are necessary

8.6 Hand protection : Recommended

8.7 Eye protection : Recommended

8.8 body protection

When handling larger quantities : Dust mask and usual protective working garments.

SECTION 9: Physical and chemical properties

Form : powder
Colour : Colourless
Odour : Odourless or faint ester-like
Melting temperature : N/A
Boiling temperature : N/A
Flammability : Class 5 i.e. material will burn steadily with flame
Min. Ignition Energy : 13mJ
Lower explosive limit : 20 g/m³
Upper explosion limit : N/A

SECTION 10: Stability and reactivity

10.1 Chemical Stability

Stable. Incompatible with strong oxidising agents

10.2 Conditions to Avoid

Thermal decomposition > 240°C
Protect from humidity

10.3 Hazardous Decomposition Products

Avoid contact with other chemicals. No hazardous reaction when used as directed.
Dust explosion class ; ST 1

Safety Data Sheet

Denture Base Polymer—Powder

Page 4 of 4

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion : None.
Skin contact : None.
Inhalation : None.
Eye contact : Avoid contact with eyes.
Systematic effects: None.
Carcinogenicity: None.
Mutagenicity: No effects are known.
Effect on growth and on reproductive system: No effects are known.

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

Recover if possible. Proceed according local and national dispositions in force.

SECTION 14: Transport information

The material is not considered dangerous according to ADR,RID,IMCO and IATA 2018/12/31

DOT-shipping Name	No regulated
ICAO/IATA-shipping Name	No regulated
IMDG-shipping Name	No regulated
ADR/RID-shipping Name	No regulated

SECTION 15: Regulatory information

Not Classified as Dangerous for Supply/Use.

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.

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