

Product Name: IMPAK Disc  
Revision date: 2025.08.07  
Initial Preparation Date :2023.05.31

Referde to GB/T16483、GB/T17519  
SDS number: HGD/QT-IMPAK-03-08

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

**English names of chemicals:** IMPAK Disc

**Company Name:** Shandong Huge Dental Material Corporation

**Address:** No.68 shanghai Road, Donggang District Rizhao City

**City, State, Zip Code:** Shandong Province, 276800, P.R.China

**Telephone:**0633-2277285

**email address:**marketing@hugedental.com

**Website:**www.hugedental.com

**Relevant identified uses of the substance or mixture and uses advised against:**This product is suitable for the treatment of restorative removable structures (e.g. night molar jaw pads, occlusal splints, dental guides), etc.

## SECTION 2: Hazards identification

### Risk categories:

Eye Damage/Irritation	2B
Skin Sensitizer	1

**Label elements:**Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. May cause an allergic reaction.



Warning

Additional information: May cause an allergic reaction.

### Health Statements:

H317 May cause an allergic skin reaction

### Precautionary Statements – Prevention, Response, Disposal

P261	Avoid breathing dust / fume / gas / mist / vapors / spray.
P264	Avoid breathing dust / fume / gas / mist / vapors / spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection
P321	Specific treatment (see information on this label).
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF ON EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313	If skin irritation or a rash occurs: Get medical advice / attention.
P337+P313	Get medical advice / attention.
P501	Dispose of contents / container in accordance with local / national regulations.

**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**

General information: Poly(ethyl methacrylate), Ethyl methacrylate.

Chemical name	Concentration	CAS NO.	EC No.	Notes
Poly(ethyl methacrylate)	50%-70%	9003-42-3	-	-
Ethyl methacrylate	30%-50%	97-63-2	202-597-5	-

**SECTION 4: First aid measures****After inhalation:**

Move the patient to fresh air and keep the air moving. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**After contact with skin:**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**After contact with eyes:**

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**After ingestion:**

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed:**

No specific symptom data available. See section 2 for further details.

**Indication of any immediate medical attention and special treatment needed:**

Hazards: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Treatment: No specific recommendations.

**SECTION 5: Firefighting measures****Suitable extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

**Special hazard arising from the substance or mixture:**

Hazardous decomposition: No hazardous decomposition data available. Avoid breathing dust.

**Special protective equipment for fire-fighters**

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

Water jets should be used to cool the container

Isolate the scene of the accident and prohibit the entry of uninvolved persons.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Cut off the source of the leak if possible.

Eliminate all sources of ignition.

**Environmental precautions**

No special measures required.

**Methods and material for containment and cleaning up**

Collect mechanically in accordance with local, state and federal regulations.

**SECTION 7: Handling and storage****Precautions for safe handling**

See section 2 for further details. – [Prevention].

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

Store in a cool dry place away from any source of heat or ignition. See section 2 for further details.

–[Storage].

**SECTION 8: Exposure controls/personal protection****Occupational exposure limits**

CAS No.	Ingredient	Source	Value
9003-42-3	Poly(ethyl methacrylate)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
97-63-2	Ethyl methacrylate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

**Engineering Controls:**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Exposure controls**

General information: No specific precautions.

Eye/face protection: Safety Glasses

Hand Protection: Wear protective gloves to minimize skin contact.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. See section 2 for further details. – [Prevention]

**SECTION 9: Physical and chemical properties**

**Appearance:**

Solid disc

**pH:**

Not Available.

<b>Melting Point:</b>	Not Available.
<b>Boiling Point:</b>	Not Available.
<b>Flash Point:</b>	305°C / 580°F
<b>Evaporation Rate (Ether=1):</b>	Not Detected (BuAC=1).
<b>Flammability (solid, gas):</b>	Not Available.
<b>Flammability Limit - Upper (%)–:</b>	Not Available.
<b>Flammability Limit - Lower (%)–:</b>	Not Available.
<b>Vapor pressure:</b>	< 0,1 hPa (20 °C)
<b>Vapor density (air=1):</b>	Not Available.
<b>Specific Gravity :</b>	1.25
<b>Solubility in Water:</b>	Insoluble
<b>Partition coefficient n-octanol/water (Log Kow):</b>	Not Available.
<b>Autoignition Temperature:</b>	NE
<b>Decomposition Temperature:</b>	NE
<b>Viscosity:</b>	Not Available.
<b>Explosive properties:</b>	Not Available.
<b>VOC %:</b>	Not Available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing.

## SECTION 10: Stability and reactivity

**Chemical stability:**Stable

**Possibility of hazardous reactions:**Not Available.

**Conditions to avoid:**High temperature, humidity, etc.

**Incompatible materials:**Strictly prohibit contact with strong oxidizing agents, strong acids, strong bases, etc.

**Hazardous decomposition products:**Not Available

## SECTION 11: Toxicological information

**Main components of the product:**Poly(ethyl methacrylate)、Ethyl methacrylate

**Acute toxicity:**

Ingredient	Oral LD50 mg/kg	Skin LD50 Mg/kg	Inhalation Vapor LC50 Mg/L/4hr	Inhalation Dust/Mist LC50 mg/L/4hr	Inhalation Gas LC50 ppm
Poly(ethyl methacrylate) (9003-42-3)	N / A	N / A	N / A	N / A	N / A
Ethyl methacrylate (97-63-2)	N / A	N / A	N / A	N / A	N / A

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

**Skin corrosion/irritation:**No effects expected

**Germ cell mutagenicity:** No effects expected

**Carcinogenicity:**No effects expected.

**Skin sensitisation:** may cause an allergic skin reaction

**Reproductive toxicity:**No effects expected.**Specific target organ toxicity - single exposure:** No effects expected**Specific target organ toxicity - repeated exposure:** No effects expected**Aspiration hazard:**No effects expected .**Other adverse effects:** None known.

## SECTION 12: Ecological information

**Ecological Toxicity:** No effects expected.See section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, Mg/l	48 hr EC50 crustacea, Mg/l	ErC50 algae, Mg/l
Poly(ethyl methacrylate) ( 9003-42-3 )	Not Available	Not Available	Not Available
Ethyl methacrylate ( 97-63-2 )	Not Available	Not Available	Not Available

**Persistence and degradability:** Not applicable**Bioaccumulation potential:** No data available**Further information:**No data available.

## SECTION 13: Disposal considerations

### Waste treatment methods:

Recycle whenever possible. If it cannot be recycled, it can be disposed of together with domestic waste..

Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

### General information

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

### Disposal Methods

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## SECTION 14: Transport information

**Packaging category:**N / A**Packaging mark:** **Packaging method:** Corrugated cardboard packaging**Marine pollutants (Yes/No):** No.

### Precautions for transportation:

It should be protected from exposure to the sun during transport. Rain, prevent high temperature.

Stopover should be away from fire, heat source, high temperature area.

Strictly prohibit contact with strong oxidising agent, strong acid, strong alkali, etc.

Transport vehicles should be equipped with appropriate varieties and quantities of fire-fighting equipment and equipment for emergency response to spills.

## SECTION 15: Regulatory information

### National regulatory information

**Regulatory Overview:** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA):** All components of this material are either listed or exempt from listing on the TSCA inventory.

**WHMIS Classification:** D2B

**US EPA Tier II Hazards:**

- Fire: No
- Sudden Release of Pressure: No
- Reactive: No
- Immediate (Acute): Yes
- Delayed (Chronic): No

**EPCRA 311/312 Chemicals and RQs (lbs):** (No Product Ingredients Listed)

**EPCRA 302 Extremely Hazardous:** (No Product Ingredients Listed)

**Proposition 65 – Carcinogens (>0.0%):** (No Product Ingredients Listed)

**Proposition 65 – Developmental Toxins (>0.0%):** (No Product Ingredients Listed)

**Proposition 65 – Female Repro Toxins (>0.0%):** (No Product Ingredients Listed)

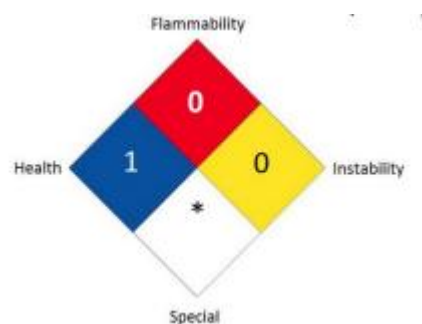
**Proposition 65 – Male Repro Toxins (>0.0%):** (No Product Ingredients Listed)

## SECTION 16: Other information

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

National Fire Protection Association (NFPA)



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.