

## Safety Data Sheet

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

**1.1 Product identifier** INTERACRYL CAST – powder

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

Product is used for manufacturing dental prosthesis in dental laboratory. For professional use only.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:	INTERDENT d.o.o.	<i>Production:</i> INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

**1.4 Emergency telephone number**

Emergency phone: 112 (EU)  
+386(0) 425-62-00 (Mon. – Fri.: 8.00 – 16.00)

### **SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 is not required based on composition.

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 is not required due to the composition.

**2.3 Other hazards**

N/A

### **SECTION 3: Composition / information on ingredients**

**3.1 Substance**

This product is a mixture. That do not meet the criteria for classification in any hazard class. Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits are detailed below. Note that concentration of hazardous goods in the mixture is too low to give the mixture some of their specific hazards. See section 3.2

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### 3.2 Mixture

Chemical name	CAS Nr. EC Nr.	%	Hazard class and category	Hazard statements
Polymethyl-methacrylate	9011-14-7	> 97	/	/
Pigments	Depends on shade	<< 1	/	/
1-benzyl-5-phenylbarbituric acid	72846-00-5 276-940-2	< 3	/	/
Aluminum Oxide	1344-28-1 682-456-6		/	/

### **SECTION 4: First Aid Measures**

#### **4.1 Description of first aid measures**

*Inhalation:*

Remove to fresh air and keep her comfortable for breathing.

*Skin contact:*

Wash thoroughly with water. If skin irritation or rash occurs: get medical attention.

*Eye contact:*

Flush thoroughly with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

*Ingestion:*

Do not induce vomiting. Wash out the mouth and give water to drink.. Obtain medical attention if ill effect occurs.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Refer to section 11.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Not applicable

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

*Suitable extinguishing media:* In case of fire, use water spray, dry powder or CO<sub>2</sub>

*Unsuitable extinguishing media:* Do not use water jet.

#### **5.2 Special hazards arising from the substance or mixture**

Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. This product can form flammable dust clouds at

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elevated temperatures. The minimum ignition temperature of a dust cloud a similar polymer has been measured at approximately 480°C (IEC 1241-2-1).

### 5.3 Advice for firefighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## ***SECTION 6: Accidental release measures***

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

Wear suitable protective clothing, gloves and eye/face protection. See point 8 for personal protection. Caution – spillages may be slippery.

### **6.2 Environmental precautions**

Avoid release to the environment.

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

Collect in containers for disposal using approved dust respirator.

### **6.4 Reference to other sections**

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

## ***SECTION 7: Handling and storage***

### **7.1 Precautions for safe handling**

Do not eat, drink or smoke at the work place. Product as supplied: avoid contact with eyes. Avoid prolonged skin contact. Unlikely that powder represent a dust hazard under normal handling conditions. Dental resins are processed in conjunction with reactive monomers and this may require the use of high level of PPE than necessary for the polymer itself. Refer to section 8 and 11. Work in a well-ventilated place. Avoid dust formation. Keep the powder away from sources of ignition, no open fire.

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

Keep packaging in a clean, cool and dry area away from heat source. Natural ventilation is adequate. Storage temperature: ambient temperature.

Incompatible materials: Polymer contains residual benzoyl peroxide. This may react with oxidizing agent, reducing agents, acids, bases, and amines leading to decomposition.

### **7.3. Specific end use(s)**

Not intended for thermal processing.

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### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

EU – Commission Directive 98/24/EC with all amendments.

Regulation on the protection of workers from risks related to exposure to chemical agents at work (Official Gazette of the Republic of Slovenia, Nos. 72/2021, 29/2024, 26/2025).

Regulation on the protection of workers from risks related to exposure to carcinogenic, mutagenic or reprotoxic substances at work (Official Gazette of the Republic of Slovenia, Nos. 29/2024, 26/2025).

The currently applicable national occupational exposure limit values must be taken into account for dust.

SUBSTANCE — OEL mg/m<sup>3</sup> (8-hour / STEL)

Dust (inhalable): 10 (I) / 20 (I)

Dust (respirable): 1.25 (A) / 2.5 (A)

#### **8.2 Exposure controls**

Personal protective equipment in accordance with Regulation (EU) 2016/425 and the List of Harmonised Standards for PPE – 2018/C 209/03.

Personal protection:

Control measures:

Do not eat, drink, or smoke in the workplace. Ensure adequate ventilation so that occupational exposure limits are not exceeded. In dental technology laboratories, exposure depends on the amount of work involving the dust. For an individual prosthesis, 23 g of powder is required, which is mixed with liquid monomer. Exposure to the powder itself is less than approx. 1 minute per prosthesis. Under these conditions, OELs cannot be exceeded.

Respiratory protection:

If the product generates dust – use local exhaust ventilation or an appropriate protective mask with a fine-particle filter, such as an FFP1 respirator according to EN 149. In the unlikely scenario where high dust concentrations are present, the use of a self-contained breathing apparatus may be appropriate.

Hand protection:

Use appropriate protective gloves, e.g., nitrile gloves Type B according to EN 374-1.

Eye/face protection:

Use protective goggles with polycarbonate lenses compliant with EN 166. In the case of wearing prescription glasses, additional protective goggles are not required.

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### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

<b>Form</b>	Fine beads
<b>Colour</b>	coloured
<b>Odour</b>	typically ester-like
<b>pH</b>	n.a.
<b>Boiling point</b>	n.a.
<b>Melting point</b>	150 – 230 °C
<b>Flash point</b>	Cca. 390 °C
<b>Explosive properties</b>	Weakly to moderate explosive
<b>Flammable limits (lower)</b>	n.a.
<b>Flammable limits (upper)</b>	n.a.
<b>Oxidizing properties</b>	n.a.
<b>Vapour pressure</b>	n.a.
<b>Density</b>	1.10-1.18 g/cm <sup>3</sup>
<b>Bulk density</b>	0,6-0,7 g/ml
<b>Water solubility</b>	negligible
<b>Solubility other</b>	Data not available

#### **9.2 Other information**

No additional information relevant to safe use of the mixture.

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Not reactive under normal conditions and proper use.

#### **10.2 Chemical stability**

Stable at normal conditions.

#### **10.3 Possibility of hazardous reaction**

Not known.

#### **10.4 Conditions to avoid**

Avoid dust generation.

#### **10.5 Incompatible materials**

Polymer contains residual benzoyl peroxide. This may react with oxidizing agents, reducing agents, acids, bases and amines leading to decomposition.

#### **10.6 Hazardous decomposition products**

Methyl metacrylate, dibenzoyl peroxide, carbon dioxide, carbon monoxide.

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### **SECTION 11: Toxicological information**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity:

*Ingestion:* Low oral toxicity.

#### **Skin corrosion/irritation:**

*Skin contact:* Unlikely to cause skin irritation.

#### **Serious eye damage/irritation:**

*Eye contact:* Dust may cause irritation.

**Respiratory or skin sensitization:** Inhalation: Unlikely to be hazardous by inhalation. Contains less than 1% residuals (methymetacrylate, dibenzoyl peroxide, barbituric acid). During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under this conditions, they may produce an allergic reaction in persons already sensitized.

**Germ cell mutagenicity:** Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.

**Carcinogenicity:** Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.

**Reproductive toxicity:** Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.

#### **STOT-single exposure:**

Toxicological data are not available. May cause respiratory irritation.

**STOT-repeated exposure:** Based on the available information, the classification criteria are not fulfilled.

**Aspiration hazard:** Based on the available information, the classification criteria are not fulfilled.

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

The product is predicted to have low toxicity on aquatic organisms.

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### 12.2 Persistence and degradability

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

### 12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

### 12.4 Mobility in soil

The product is predicted to have low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Not classified.

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effect

Not known.

## ***SECTION 13: Disposal considerations***

### 13.1. Waste treatment methods

The waste is considered to be nonhazardous. The product may be disposed as house waste and be incinerated in accordance with the local regulations.

## ***SECTION 14: Transport Information***

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):	Air (IATA):
14.1 UN number	No data available			
14.2 UN proper shipping name	No data available			
14.3 Transport hazard class(es)	No data available			
14.4 Packing group	No data available			
14.5 Environmental hazards	No data available			
14.6 Special precautions for user	No special precautions			
14.7 Maritime transport in bulk according to IMO instruments	No data available			

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Not a dangerous product within the meaning of the transport regulations.

### **SECTION 15: Regulatory information**

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

Polymers are not hazardous to health or environment and there for does not fall under the special labeling classification for dangerous and hazardous products according regulation No 1272/2008.

#### **15.2 Chemical safety assessment**

No data available.

### **SECTION 16: Other information**

#### *Revision:*

Version 08 issued on November 2025 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### *Legend of abbreviations:*

Dibenzoyl Peroxide

H241 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

1-benzyl-5-phenylbarbituric acid

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Metyl Metacrylate

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

PNEC: Predicted no-effect concentration

DNEL: Derived non-effect level

OEL: Occupational exposure limit

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LD<sub>50</sub>: Median lethal dose; the dose causing 50% lethality  
LC<sub>50</sub>: Lethal concentration 50; standard measure of the toxicity of the surrounding medium that will kill half of the sample population  
EC<sub>50</sub>: Half maximal effective concentration  
IOELV: Indicative Occupational Exposure Limit Value.  
WEL: Workplace Exposure Limit.  
Bmgv: Biological Monitoring Guidance Value.  
Sen: Capable of causing respiratory sensitization.  
Sk: Can be absorbed through skin.  
Carc: Capable of causing cancer and/or heritable genetic damage.  
CHAN: Chemical Hazard Alert Notice.  
COM: The company aims to control exposure in its workplace to this limit.  
LTEL: Long Term Exposure Limit.  
STEL: Short Term Exposure Limit.  
TWA: Time Weighted Average.  
STOT SE: Specific Target Organ Toxicity – Single Exposure.  
Repr.: Reproductive toxicity.

### *References:*

Safety data sheets of the producer of the raw material for the product  
Ur. I RS 36/99, 45/00, 104/00, 101/02, 9/03, 65/03  
European convention about international transport of hazardous material ADR  
EC directive 1907/2006 and 1272/2008  
Ur.l. RS 101/2002 and Ur.l.RS 16/2008

### *Disclaimer of expressed and implied warranties:*

The information contained in the safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.