# Safety Data Sheet

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

**1.1 Product identifier** **INTERACRYL COLD – powder**
**INTERACRYL HOT- powder**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Product is used for manufacturing dental prosthesis (repair of full and partial dentures, relining and extension of dentures) or appliances in dental laboratory. For professional use only.

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

| | | *Production:* |
|---|---|---|
| Manufacturer/Supplier: | INTERDENT d.o.o. | 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**

| Hazard class | Hazard category | Hazard statements |
|---|---|---|
| Skin Sens. | 1B | H317: May cause allergic reactions. |

**2.2 Label elements**

**Signal word: ATTENTION**
**Hazard statements:**
H317: May cause allergic reactions.

**Precautionary statements:**
*Prevention:*
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P280 Wear protective gloves, protective clothing and eye protection.

*Response:*
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

*Disposal:*
P501 Dispose of contents/container in accordance with national legislation.

### 2.3 Other hazards

Methyl methacrylate is absorbed into the body by inhalation and swallowing of the powder. None of the components of this product are listed by IARC, NTP, OSHA or ACIGH as carcinogens.
*Short term effects:* None of the components is hazardous to health or environment. Avoid dust formation because of the mechanical irritation of the eyes and respiratory system. Not classified as PBT or vPvB. Combustible but not readily ignited. It may form explosion dust clouds in air. It is low toxic under normal conditions of handling and use.
*Long term effects, repeated exposure*: Repeated and prolonged overexposure may cause permanent allergic skin rashes.

## *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

### 3.2 Mixture

| Chemical name | CAS Nr.<br>EC number<br>INDEX number | % | Hazard class and category | Hazard statements |
|---|---|---|---|---|
| **Polymethyl-methacrylate** | 9011-14-7<br>/<br>/ | > 97 | / | / |
| **Dibenzoyl peroxide** | 94-36-0<br>202-327-6<br>/ | < 3 | Org.Perox.B<br>Skin Sens.1<br>Eye Irrit.2 | H241<br>H317<br>H319 |
| **Pigments** | 1344-28-1<br>/<br>/ | << 1 | / | / |

## *SECTION 4: First Aid Measures*

**4.1 Description of first aid measures**

*Inhalation:*
Remove to fresh air and keep comfortable for breathing.

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

E*ye 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 $CO_2$
*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 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**
See point 12 for information concerning the environment. 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.

## *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 for dibenzoyl peroxide and dust must be taken into account.

SUBSTANCE — OEL mg/m³ (8-hour / STEL)
Dibenzoyl peroxide: 5 (I) / 5 (I)
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 approximately 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 concentrations of dust 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 in accordance with EN 166. When prescription glasses are worn, no additional protective goggles are required.

## *SECTION 9: Physical and chemical properties*

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

| | |
|---|---|
| **Form** | Fine prah |
| **Colour** | coloured |
| **Odour** | typically, ester-like |
| **pH** | n.a. |
| **Boiling point** | n.a. |

| | |
|---|---|
| **Melting point** | 150 – 230 °C |
| **Flash point** | Cca. 390 °C |
| **Explosive properties** | Weakly to moderate explosive |
| **Flammable limits (lower)** | n.a. |
| **Flammable limits (upper)** | n.a. |
| **Oxidizing properties** | n.a. |
| **Vapour pressure** | n.a. |
| **Density** | 1.10-1.18 g/cm$^3$ |
| **Bulk density** | 0,6-0,7 g/ml |
| **Water solubility** | negligible |
| **Solubility other** | 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.

## *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 these 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.

**12.2 Persistance 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*

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).

# Safety Data Sheet

*Legend of abbreviations:*
PNEC: Predicted no-effect concentration
DNEL: Derived non-effect level
OEL: Occupational exposure limit
$LD_{50}$: Median lethal dose; the dose causing 50% lethality
$LC_{50}$: Lethal concentration 50; standard measure of the toxicity of the surrounding medium that will kill half of the sample population
$EC_{50}$: 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. l 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.