

## Safety Data Sheet

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

**1.1 Product identifier** **INTERACRYL HOT - liquid**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
 Product is used for manufacturing of dental prosthesis in dental laboratory.

**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.

Hazard class	Hazard category	Hazard statements
Flammable liquids	2	H225 Highly flammable liquid and vapour.
Specific target organ toxicity – Single exposure	3, Respiratory tract irritation	H335 May cause respiratory irritation.
Skin corrosion/irritation	2	H315 Causes skin irritation.
Sensitisation – Skin	1	H317 May cause an allergic skin reaction

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008:

**Hazard pictograms:**

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**Signal word: DANGER**

**Hazard statements:**

H225 Highly flammable liquid and vapour.  
H335 May cause respiratory irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction

**Precautionary statements:**

*Prevention*

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

*Response*

P302+P352: IF ON SKIN: Gently wash with plenty of soap and water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

*Storage:*

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P370+P378 - In case of fire: Use foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>) to extinguish.

*Disposal*

P501 Dispose of contents/container in accordance with local regulations.

**Contains:**

Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate, 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester

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### 2.3 Other hazards

PBT and vPvB evaluations are in Section 12.5. The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

See section 3.2

#### 3.2 Mixture

Chemical name	CAS Nr. EC-Number INDEX number REACH number	%	Classification according EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Methyl-methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	> 94	Flamm.Liq.2 STOT SE 3 Skin Irrit.2 Skin Sens. 1	H225 H335 H315 H317
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester	97-90-5 202-617-2 607-114-00-5 2119965172-38	< 5	STOT SE.3 Skin Sens.1 Aquatic Chr 3	H335 H317 H412
N, N – dimethyl toluidin	99-97-8 202-805-4 612-056-00-9 01-2119937766-23	<<1	Acute Tox.3 Acute Tox.3 Acute Tox.3 STOT RE 2 Aquatic Chr 3	H331 H311 H301 H373 H412

#### Specific concentration limits:

Name	CAS Nr. EC-Number INDEX number REACH number	Specific concentration limit
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester	97-90-5 202-617-2 607-114-00-5 2119965172-38	(10 ≤ C ≤ 100) STOT SE 3, H335

### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

*Inhalation:*

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Immediately remove victim to fresh air. Keep victim at rest in half upright position. If breathing is difficult: mouth-to mouth resuscitation. If not breathing: artificial aspiration. Immediately get medical attention.

*Skin contact:*

Wash off with plenty of water for at least 15 minutes. Remove contaminated clothing. (Do not pull loose.) Wash off with plenty of water. Immediately get medical attention.

*Eye contact:*

Immediately wash out with plenty of water with the eyelid held wide open for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. Immediately get medical attention.

*Ingestion:*

Never give anything by mouth to an unconscious person. Do not induce vomiting. Wash out mouth with water. Make victim drink water. Keep victim at rest. Immediately get medical attention.

*Protection of first – aiders:* Avoid exposure. Use appropriate protection.

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

*Inhalation:* Irritating to respiratory system. Exposure may result in depressed respiration, coughing, nausea and sore throat. Prolonged or repeated exposure to large amounts may cause damage to lungs (lung edema).

*Ingestion:* Irritating to mouth, throat and esophagus. Exposure may result in sore throat, nausea, retching and blisters. Prolonged or repeated exposure to large amounts may result in unconsciousness or coma.

*Skin contact:* Irritating to skin. Exposure may result in redness, swelling and pain. Prolonged or repeated skin contact (sweating, fever, pain). In oversensitive people even exposure to very small amounts causes allergic reactions.

*Eye contact:* Irritating to eyes. Exposure may result in impaired vision, tears, redness and pain.

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

Specific treatment: First aid, decontamination, treatment of symptoms.

Notes for the doctor: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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*Suitable:*

Dry chemical, AFFF, foam, carbon dioxide. In extreme cases, if aforementioned extinguishing agents are ineffective in fighting a large fire, use a halon extinguisher.

*Unsuitable:*

Do not extinguish with water.

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

Vapour is heavier than air and travels along the ground with the risk of distant ignition. Burning may produce: carbon dioxide, carbon monoxide. Fight fires from a protected location. Dyke fire control water for later disposal. Cool exposed containers with water spray.

### 5.3 Advice for firefighters

Burning may produce: toxic and /or corrosive vapours/gasses. Use breathing apparatus (self – contained breathing apparatus with full face shield.) Wear suitable protective clothing.

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

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

In the event of major spillage. Evacuate room. Contact safety officer immediately. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

Prevent dispersion. Do not allow enter sewage system. In the event of major spillage. Contact safety officer immediately.

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

Incentive /Danger of explosion. Keep away from sources of ignition. Seal leak if possible without risk. Prevent dispersion. Clean up only under supervision of an expert. Collect spilled material in sealable containers. Absorb remainder in sand or other inert material. Collect in sealable containers.

### 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

When handling the product, allow for materials and conditions which should be avoided (see Section 10). Avoid exposure. Use appropriate protection (see section 8). Take

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precautionary measures against static discharges. Keep away from open flame, sparks or sources of ignition. Explosion protected electrical equipment.

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

Store in fireproof location. When storing the product, allow for materials and conditions which should be avoided (see Section 10). Ventilation required along the floor. Keep container tightly closed. Keep in labeled containers.

### 7.3. Specific end use(s)

Product is used for repairing of dental prosthesis in dental laboratory.

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

### 8.1 Control parameters

#### Occupational exposure limits:

**Chemical name: methyl methacrylate** (EU – Directive 2009/161/EU, Official Gazette. RS nr. 78 / 4.12.2018):

**MV (8 h) = 210 mg/m<sup>3</sup> (50 ppm)**

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

In the event of use above flash point. Use in closed systems. Do not use compressed air by filling, discharging or handling the product. Ventilation required along the floor. ventilation required. Explosion protected electrical equipment. Explosion proof lighting. Earth connection against static electricity. Spark – free tool. Do not heat.

#### Hygiene measures:

Follow good hygiene practices. Keep personal protective equipment separate from other clothing. Remove contaminated clothing immediately. Do not eat, drink, smoke while using. Wash hands after each use.

#### 8.2.2 Personal protective equipment

With proper ventilation, extraction or closed systems, breathing apparatus is not required. Chemical harm measurements. In case of increased exposure and insufficient ventilation, the use of respiratory protection is mandatory:

*Respiratory system:* With sufficient ventilation, extraction or closed system, breathing apparatus not necessary. Use half masks (approved to EN 405) or full face masks (approved to EN 136). In the event of possible exposure: gas/vapour filter. SIST EN 140:1999/AC:2000 with filter SIST EN 14387:2004 + A1:2008 filter type A.

#### Skin/Hands:

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Wear suitable protective clothing. Standard. EN 13034. Mandatory use of gloves SIST EN 374: 2004. Recommendation: Wear suitable gloves resistant to chemical penetration. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Suitable material: butyl rubber. Layer thickness: 0.3 mm. penetration time (maximum wearing period): 60 min. If there is a risk of liquid being splashed: Nitrile rubber gloves Incidental. Thickness of glove material: 0.11 mm.

Eyes: Safety goggles SIST EN 166:2002

Other: In the case of handling with higher volume of liquids: full face mask, chemical-resistant boots, rubber apron.

### 8.3 Environmental exposure controls

General instructions: Do not flush into surface water or sanitary sewer system.

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

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

<b>Physical state</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Ester-like
<b>Odour treshold</b>	Not available
<b>Melting point</b>	- 48 °C
<b>Freezing point</b>	Not available
<b>Boiling point</b>	100,5°C
<b>Flammability</b>	Highly flammable liquid and vapour
<b>Explosive limits</b>	Not available
<b>Flash point</b>	10°C
<b>Auto ignition temperature</b>	421 °C
<b>Decomposition temperature</b>	No data available
<b>pH</b>	Not applicable
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Solubility</b>	Water: 1.6 % slightly soluble Organic solvent: Dispersible
<b>Partition coefficient n-octanol/water (Log Pow)</b>	Not applicable
<b>Vapour pressure</b>	3.6 Pa @ 20°C
<b>Vapour pressure at 50 °C</b>	Not available

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Density	Not available
Relative density	0.94 g/ml at 20°C
Relative vapour density at 20 °C	Not available
Particle size	Not applicable

### 9.2 Other information

VOC content: ≈ 96 %

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

#### 10.1 Reactivity

Not reactive under normal conditions and proper use.

#### 10.2 Chemical stability

Stable under normal conditions. When incorrectly used: Fire hazard, polymerization (stable with: hydroquinone).

#### 10.3 Possibility of hazardous reaction

Data not available.

#### 10.4 Conditions to avoid

Keep away from: open flame and sources of ignition. Do not heat. Protect from (sun)light and heat.

#### 10.5 Incompatible materials

No data available.

#### 10.6 Hazardous decomposition products

Not known.

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

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

##### **Methyl-methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)**

Acute toxicity- Oral: LD<sub>50</sub> (rat): 7900 - 9400 mg /kg

Acute toxicity - Dermal: LD<sub>50</sub> (rabbit): 5000 mg /kg

Acute toxicity - Inhalation: LD<sub>50</sub> (rat, 4 hour): 29,8 ml / l

Vapour of methyl methacrylate can tease respiratory organs, eyes and skin. Skin exposure can lead to dermatitis. Inhalation can cause dizziness, nausea and vomiting. Long term exposure can cause asthma.



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Skin irritation (rabbit): slightly irritating  
Eye irritation (rabbit): slightly irritating  
Sensitization (guinea pig): not sensitizing

### **2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester (97-90-5)**

LD50 oral rat 8300 ml/kg  
LD50 dermal rat 2000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

pH: Not applicable

Serious eye damage/irritation: Not classified

pH: Not applicable

Additional information: Based on available data, the classification criteria are not met

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Additional information: Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Additional information: Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Additional information: Based on available data, the classification criteria are not met

STOT-single exposure: May cause respiratory irritation

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

STOT-single exposure May cause respiratory irritation.

2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester (97-90-5) STOT-single exposure May cause respiratory irritation. STOT-repeated exposure: Not classified

Additional information : Based on available data, the classification criteria are not met

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6) LOAEC (inhalation, rat, vapour, 90 days) 416 mg/m<sup>3</sup> air NOAEL (oral, rat, 90 days)

124.1 – 164 mg/kg bodyweight/day NOAEC (inhalation, rat, dust/mist/fume, 90 days)

500 – 1000 ppm 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester (97-90-5) LOAEC

(inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413

(Subchronic Inhalation Toxicity: 90- Day Study) NOAEL (oral, rat, 90 days) 100 – 1500

mg/kg bodyweight/day

Aspiration hazard: Not classified

Additional information: Based on available data, the classification criteria are not met

### **11.2. Information on other hazards**

11.2.1. Endocrine disrupting properties

No additional information available

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

#### **12.1 Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

LC50 - Fish [1] 79 mg/l

EC50 - Crustacea [1] 69 mg/l

EC50 72h - Algae [1] 110 mg/l

LOEC (chronic) 68 mg/l (21 d)

NOEC (acute) 40 mg/l (4 d)

NOEC (chronic) 37 mg/l Test organisms (species): *Daphnia magna* Duration: '21 d'

NOEC chronic fish 37 mg/l (21 d)

2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester (97-90-5)

LC50 - Fish [1] 15.95 mg/l

EC50 - Crustacea [1] 44.9 mg/l

EC50 72h - Algae [1] 17.3 mg/l

EC50 96h - Algae [1] 19 mg/l Test organisms (species): *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*)

EC50 96h - Algae [2] 10.1 mg/l Test organisms (species): *Pseudokirchneriella subcapitata* (previous names:

*Raphidocelis subcapitata*, *Selenastrum capricornutum*)

NOEC (chronic) 5.05 mg/l

NOEC chronic fish 5.05 mg/l (21 d)

#### **12.2 Persistence and degradability**

No data available.

#### **12.3 Bioaccumulative potential**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

Partition coefficient n-octanol/water (Log Pow): 1.38 @ 20 °C and pH 7

2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester (97-90-5)

Bioconcentration factor (BCF REACH): 21.9

Partition coefficient n-octanol/water (Log Pow): 2.4

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**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effect**

No data available

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**

*Methods of disposal:* Disposal according to the local legislation.

*Waste of residues:* Keep waste separate. Because of possible pollution, remove as industrial waste or hazardous waste.

*Contaminated packaging:* Keep waste packaging separate. Because of possible pollution, remove as industrial waste or hazardous waste.

*Category of disposal:* 16 03 05\* Organic wastes containing dangerous substances.

**SECTION 14: Transport Information**

	<b>Land-Road/Railway (ADR/RID):</b>	<b>Inland waterways (ADNR):</b>	<b>Sea (IMDG):</b>	<b>Air (IATA):</b>
<b>14.1 UN number</b>	UN 1247	UN 1247	UN 1247	UN 1247
<b>14.2 UN proper shipping name</b>	methyl methacrylate, stabilized	methyl methacrylate, stabilized	methyl methacrylate, stabilized	methyl methacrylate, stabilized
<b>14.3 Transport hazard class(es)</b>				
Class	3	3	3	3
Hazard identification number	339	/	/	/
Classification group	F1	/	/	/
Hazardous label	3	/	/	/
Tunnel restriction code	(D/E)	/	/	/
Medical First Aid Guide:	/	/	330	/

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EmS	/	/	F-E, S-D	/
<b>14.4 Packing group</b>	II	/	II	II
<b>14.5 Environmental hazards</b>	Not marine pollutant.			
<b>14.6 Special precautions for user</b>	No special precautions			
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available			

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

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

Product is classified in accordance with directive EC 1907/2006 and 1272/2008 and additional changes or national legislation Ur.l. RS 101/2002 and Ur.l.RS 16/2008.

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

No data available.

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

#### *Revision:*

Version 08 issued on May 2023 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:*

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

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CMR – Carcinogenic, Mutagenic or toxic for Reproduction  
DNEL - Derived no-effect level  
EC<sub>50</sub>: Half maximal effective concentration  
EmS – Emergency Schedule  
GHS – Globally Harmonised System of Classification and Labeling of Chemicals  
IATA – International Air Transport Association  
IMDG – International Maritime Dangerous Goods Code  
LC<sub>50</sub>: Lethal concentration, 50%  
LD<sub>50</sub>: Median lethal dose; the dose causing 50% lethality  
MARPOL – International convention for the prevention of pollution from ships  
NOEC - No-observed-effect concentration  
OEL - Occupational exposure limit  
OECD - Organisation for Economic Co-operation and Development  
PBT – Persistent Bioaccumulative Toxic  
PNEC: Predicted no-effect concentration  
Ppm – parts per million  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID – Regulation concerning the international carriage of dangerous goods by rail  
vPvB – very Persistent and very Bioaccumulative

### *References:*

Safety data sheets of the substances for the product  
Directive EC 1907/2006 and 1272/2008 with all amendments  
Council Directive 98/24/EC with all implementations and amendments (Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19; 72/21);  
Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.  
Martindale: The Extra Pharmacopoeia, 13. edition  
European convention about international transport of hazardous material ADR

### *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.