



ACKURETTA

# MATERIAL SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** Ackuretta CURO IBT

**Chemical Name/Synonyms:** Additive plastic

**Application:** Methacrylate-based resin 3D printing systems with 385 nm or 405 nm light sources for fabrication of dental spacers.

**Company:** Ackuretta Technologies Pvt Ltd

**Manufacturer:** MACK4D  
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**MSDS Date of preparation:** 13th of July, 2020

## Section 2: Hazard(s) Identification

**Classification of substance or mixture** according to Regulation (EC) No. 1272/2008:

Skin irrit.	Cat. 2	H315
Skin sens	Cat. 1	H317
Eye irrit.	Cat. 2	H319
STOT SE	Cat. 3	H335

**Pictograms:**



**Signal Word(s):** hazard

**Hazard statements:**

**315** Causes skin irritation.  
**317** May cause an allergic skin reaction.  
**319** Causes serious eye irritation.  
**335** May cause respiratory irritation.

**Precautionary statements:**

**264.1** Wash hands thoroughly after handling.  
**280** Wear protective gloves/protective clothing/eye protection/face protection.  
**302+352** IF ON SKIN: Wash with plenty of water.  
**321** Specific treatment: (refer to Section 4).  
**332+313** If skin irritation occurs: Get medical advice/attention.  
**362+364** Take off contaminated clothing and wash it before reuse.

**Other hazards:** NA

**Classification according to Directive 67/548/EEC or 1999/45/EC Hazard symbols**

**Hazard Symbols:**



**R-phrases**

Xi Irritant.

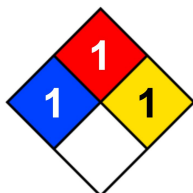
- 36 Irritating to eyes.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.

**S-phrases**

- 20/21 When using do not eat, drink or smoke.
- 28.2 After contact with skin, wash immediately with plenty of water and soap.

**Classification according to NFPA Hazard Identification System**

Hazard symbol:



- Health hazard: 1
- Flammability: 1
- Reactivity: 1

**Special precautions:**

**Classification according to HMIS (Hazardous Materials Identification System)**

Hazard symbol:

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	
<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

- Health hazard: 1
- Flammability: 1
- Physical hazards: 1
- Personal protective equipment: B

**Section 3: Composition/Information on Ingredients**

**Substances:** This product is a mixture  
**Mixtures:** Composition/information on ingredients.

**Composition/information on ingredients**

Reagent	Percentage	EC No.:	CAS No.	REACH Registration No.	Classification according to Regulation (EC) No. 1272/2008	Hazard class and category
Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat		41637-38-1			Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335	Xi; R36/37/38 -; R43

**Substance with a common (EC) occupational exposure limit value**

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat		41637-38-1			Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335	Xi; R36/37/38 -; R43
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**Section 4: First Aid Measures**

**General information:** Immediately remove stained and soaked clothing. If symptoms are present or in case you are in any doubt, seek medical advice. If the person loses consciousness, put them in the recovery position and seek medical advice immediately..

**After inhalation:** Make sure that there is fresh air. If the product irritates the respiratory tract, consult a doctor immediately.

**After contact with skin:** Wash out and rinse with plenty of soap and water.

**After contact with eyes:** In the event of contact with the eyes, immediately remove contact lenses and rinse with running water for 10-15 minutes while keeping the eyes open. Consult an eye specialist as soon as possible.

**After swallowing:** Never administer something orally to an unconscious person or someone who is experiencing cramps. Consult a doctor immediately. Do not induce vomiting.

**The most significant acute and delayed occurring symptoms and impact**

**Skin contact:** May cause an allergic skin reaction.

**Information about emergency medical aid or special treatment**

**Note for the physician:** Treat symptomatically.

### Section 5: Fire-Fighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Dry extinguishing powder; Dry sand

**Unsuitable extinguishing media:** Excess water

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

In case of fire: Wear self-contained breathing apparatus. Coordinate fire-fighting measures to the fire surroundings.

**Advice for firefighters**

**General information**

Do not inhale explosion and combustion gases. Coordinate fire-fighting measures to the fire surroundings.

**Special protective equipment for firefighters:**

In case of fire: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases. Coordinate fire-fighting measures to the fire surroundings.

### Section 6: Accidental Release Measures

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

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

**Environmental precautions**

Do not allow to enter into water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**Reference to other sections:** Reference to other sections: For information on personal protective equipment, see Section 8. Section 13 contains information about waste disposal.

### Section 7: Handling and Storage

**Safety precautions for safe handling**

**Safety precautions during use:** Avoid contact with the eyes and skin. Wash contaminated skin thoroughly after handling. The hands and all contaminated parts of the body must be washed with soap and water before leaving the factory premises. Keep away from heat, sparks and open flame. Mechanical suction is required if dust is discharged during handling. Open and handle containers with care. At work, wear suitable safety equipment in the event of longer exposure and/or high concentrations of vapors, spray or mist.

**General work hygiene measures:** When using the product, do not eat, drink or smoke.

**Conditions for safe storage, taking cases of incompatibility into account**

**Safety precautions for storage:** Store in a cool and dry place in a tightly sealed original container. Store at temperatures between 5°C and 30°C. Keep away from frost and direct sunlight. Keep away from hot surfaces, sparks, open flames and other types of ignition sources. Do not smoke.

**Specific end uses**

**Intended end use(s):** The intended uses of this product are described as the application in Section 1.

### Section 8: Exposure Controls/Personal Protection

**Parameters to be monitored:** No maximum allowable concentration(s) is/are known for the ingredient(s).

**Limitation and monitoring of exposure**

**Protective equipment**



**Suitable technical controller:** Adequate room ventilation and local aspiration must be ensured. The maximum allowable concentration of the product or ingredients must be observed.

**Eye/face protection:** Eye protection corresponding to a recognized standard should be worn if a risk assessment shows that eye contact is possible. The following personal protective clothing should be worn: Chemical safety goggles. Wear close-fitting chemical safety goggles or face protection.

**Hand protection:** Wear protective gloves. In accordance with the data specified by the protective glove manufacturers, it is required while using them to check whether the gloves maintain their repellent properties and to change them as soon as damage is detected. In the case of exposure up to 8 hours, protective gloves made of the following material must be worn: Nitrile rubber.

**Other skin and personal protection:** Avoid contact with the skin. Wear suitable clothing to prevent possible skin contact.

**Hygiene measures:** Wash contaminated skin thoroughly after handling. Before removing the clothing, wash contaminated clothing and skin immediately with plenty of water. Immediately remove all contaminated garments and wash before wearing them again. Contaminated work clothing should not be allowed out of the workplace. When using the product, do not eat, drink or smoke.

**Respiratory protection:** If ventilation is inadequate, suitable respiratory protection must be worn. Wear a protective mask with full face protection and the following filter cartridge: Filter against organic vapors. Highly effective particle filters.

### Section 9: Physical and Chemical Properties

**Appearance:** Liquid  
**Odor:** Specific  
**Color:** Various tooth colors  
**Density:** 1.1 g/cm<sup>3</sup>  
**Bulk density:** NA  
**pH:** NA  
**Melting point/freezing point:** NA  
**Initial boiling point and boiling range:** NA  
**Flash point:** >150 °C  
**Flammability (solid, gas):** NA  
**Explosivity:** NA  
**Lower explosion limit:** NA  
**Upper explosion limit:** NA  
**Ignition temperature:** NA  
**Decomposition temperature:** NA  
**Oxidizing potential:** NA  
**Vapour pressure:** NA  
**Vapour density:** NA  
**Evaporation rate:** NA  
**Water solubility:** No  
**Fat solubility:** NA  
**Soluble in:**  
**Partition coefficient: noctanol/water:** NA  
**Viscosity:** ca. 700-1200 Pa s  
**Solvent separation test:** NA  
**Solvent content:** NA

### Section 10: Stability and Reactivity

**Reactivity:** No information is available.  
**Chemical stability:** No information is available.  
**Possible hazardous reactions:** No information is available.  
**Conditions to avoid:** Incompatible conditions: Reaction with light, risk of polymerization.  
**Incompatible materials:** Incompatible materials Keep away from radical-forming initiators, peroxides.  
**Hazardous decomposition products:** Hazardous products can polymerize spontaneously.

### Section 11: Toxicological Information

**Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat 41637-38-1**  
**Specific symptoms in laboratory animals**  
**Irritation and etching**  
 Irritant effect on the skin  
 Irritant effect on the eye  
 Irritant effect on the respiratory tract  
**Additional information**  
**Sensitization**  
 Repeated dose toxicity (subacute, subchronic, chronic)  
**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carcinogenicity Germ cell mutagenicity Reproductive toxicity
<b>Section 12: Ecological Information (non-mandatory)</b>
<b>Toxicity</b> <b>Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat 41637-38-1</b> <b>Persistence and degradability:</b> No information is available. <b>Bioaccumulative potential:</b> No information is available. <b>Mobility in soil:</b> No information is available. <b>Results of PBT and vPvB assessment:</b> No information is available. <b>Other adverse effects:</b> No information is available.
<b>Section 13: Disposal Instructions</b>
<b>Proper disposal/product:</b> Disposal in accordance with regulatory requirements. <b>Proper disposal/packaging:</b> May be disposed of in accordance with local regulatory requirements. <b>Ecology - waste materials:</b> Avoid discharge into the environment
<b>Section 14: Transport Information (non-mandatory)</b>
<b>UN number:</b> none <b>Proper UN shipping name:</b> none <b>Transport hazard classes:</b> No dangerous goods pursuant to transportation regulations. <b>Packaging group:</b> none <b>Environmental hazards:</b> none <b>Special precautions for transport:</b> none <b>Bulk transport in accordance with Annex II of the MARPOL Convention 73/79 pursuant to IBC Code:</b> No
<b>Section 15: Regulatory Information (non-mandatory)</b>
<b>Regulations on safety, health and environmental protection/specific laws for the substance or mixture</b> <b>EU regulations</b> <b>Information about Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register:</b> irrelevant <b>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer:</b> irrelevant <b>Regulation (EC) No. 648/2004 on detergents:</b> irrelevant <b>Regulation (EC) No. 850/2004 [POP regulation]:</b> irrelevant <b>Regulation (EU) No. 649/2012 concerning the import and export of hazardous chemicals:</b> irrelevant <b>Restriction on use in accordance with REACH Annex XVII No.:</b> irrelevant <b>National regulations</b> National regulations must also be observed. <b>Instructions on employment restriction:</b> No information is available. Major Accidents Ordinance Not subject to the German Major Accidents Ordinance. <b>Solvent Ordinance (31st Federal Immission Protection Ordinance [BlmSchV]):</b> irrelevant <b>Storage class:</b> 10 Combustible liquids unless LGK 3A or 3B. <b>Water hazard class (WGK):</b> 1 weak water pollutant (WGK 1)
<b>Section 16: Other Information</b>
<b>Text of H and R phrases (number and full text)</b> <b>H phrases</b> <b>H315</b> Causes skin irritation <b>H317</b> May cause an allergic skin reaction. <b>319</b> Causes serious eye irritation. <b>335</b> May cause respiratory irritation. <b>P phrases</b> <b>36</b> Irritating to eyes. <b>37</b> Irritating to respiratory system. <b>38</b> Irritating to skin. <b>43</b> May cause sensitization by skin contact. <b>Training tips:</b> Only trained personnel should use this product. <b>Recommended restriction(s) on use:</b> No special measures are required. <b>Further information:</b> REJECTION OF LIABILITY We have obtained the information in this data sheet from sources that we consider reliable. The accuracy of expressed or implied information cannot be guaranteed. The conditions or methods for handling, storage, use or disposal of the product are beyond our control and possibly also our knowledge. For these and other reasons, we accept no responsibility and expressly reject liability for any losses, damage or costs that may arise from handling, storage, use or disposal of the product or that may be associated therewith in any way. This Safety Data

Sheet was created for this product and may only be used for this product. If the product is used as a component of another product, the information indicated in the data sheet may not apply. This information is based on our current knowledge and should only describe the product with regard to health, safety and environmental conditions. It must therefore not be construed as a guarantee for any specific property of the product.