



ACKURETTA

MATERIAL SAFETY DATA SHEET

Section 1: Identification

Product Name: Ackuretta CURO Model 2.0

Chemical Name/Synonyms: Bello Models, C&B 5.0 Hybrid, SG5.0 (Surgical Guide)

Application: Monomer based on Acrylic esters for manufacturing of 3D-printed Dental Models, Dental Fast Models, Temporary Crowns and Bridges.

Company: Ackuretta Technologies Pvt Ltd

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Section 2: Hazard(s) Identification

Hazard Classification: According to Products Regulations

Classification of the product:

Skin sensibility	1	Skin sensitization
Aquatic chronic	4	Hazardous to the aquatic environment - chronic

Pictograms:



Signal Word(s): hazard

Hazard Statements:

Hazard warnings:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection
P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/containers in accordance with local regulations.

Description of other hazards: NA			
Section 3: Composition/Information on Ingredients			
Monomers based on methacrylic ester with levels of stabilizer, fillers, pigments initiator and accelerator.			
Chemical Name	CAS No.	% w/w	Classification according to Regulation (EC) No. 1272/2008
2Furanmenthanol, tetrahydro	97-99-4	>45	Aquatic chronic 4
Synthetic Iron oxide	1317-61-9	<40	Skin Sens. 1; Aquatic chronic 4
Section 4: First Aid Measures			
<p>Inhalation: Remove patient from exposure and to fresh air. Obtain immediate medical attention.</p> <p>Skin Contact: Remove contaminated clothing. Wash skin immediately with soap and lukewarm water.</p> <p>Eye Contact: If symptoms (irritation or blistering) occur obtain medical attention. Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.</p> <p>Ingestion: Do not induce vomiting. If ingested, drink plenty of water/milk immediately. If the person is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Obtain medical attention.</p>			
Section 5: Fire-Fighting Measures			
<p>May polymerize on heating. Sealed containers may rupture explosively if hot.</p> <p>Solvents</p> <p>Suitable solvents: Foam, dry fire extinguisher or carbon dioxide (CO₂)</p> <p>Unsuitable solvents: Do not use a water jet as an extinguishing agent, as this will cause the fire to spread.</p> <p>Unsuitable extinguishing media: High temperatures may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use water spray for fog to reduce or direct vapors. Water may not be efficient in actually extinguishing a fire involving this product.</p> <p>Information for fire-fighting</p> <p>Particular protective equipment for fire-fighters: Wear self-contained breathing apparatuses (SCBA) and full protective clothing should be worn in fire-fighting conditions.</p>			
Section 6: Accidental Release Measures			
<p>Personal precautions: Ensure suitable personal protection (including respiratory protection) during removal or spillage.</p> <p>Measures for environmental protection: Prevent entry into drains.</p> <p>Measures for cleaning/collecting: Bind leaked material with sand or another inert absorbent. DO NOT absorb onto sawdust or other combustible material. Transfer to container for disposal or recovery. Spillages or uncontrolled discharges into watercourses must be alerted to appropriate regulatory body. Do not discharge into drains/surface waters/groundwater. Maximize ventilation after accidental release.</p>			
Section 7: Handling and Storage			
<p>Handling: Avoid contact with skin and eyes. Avoid inhalation of high concentrations of vapors. Use only in well-ventilated areas. Material must be kept from sources of ignition. Take precautionary measures against static discharges. Keep away from food, drinks, and animal feed.</p> <p>Storage: Keep in a dry, cool, well-ventilated place, separate from oxidizing agents. Keep away from sources of ignition - No smoking. Keep away from heat and direct (sun) light. Container may be filled for only 80%. Keep the container closed to avoid evaporation of the product. Storage temperature: Preferably not exceeding 25 degrees Celsius.</p>			
Section 8: Exposure Controls/Personal Protection			
Exposure Limit Values:			
Occupational Exposure Limits:			
Substance	TWA 8 hr *mg/m ³	TWA 8 hr (ppm)	
Methacrylic oligomers	Not listed	Not listed	
Metallic Oxides	1.0 (Skin)	No vapors	
Fillers	Not listed	Not listed	

Exposure Controls:

General protective and hygienic measures: Adequate room ventilation and local aspiration must be ensured. The maximum allowable concentration of the product or ingredients must be observed. Avoid contact with the skin. Wear suitable clothing to prevent possible skin contact. 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.

Breathing equipment: 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.

Protection of hands: Wear protective gloves. The most appropriate glove depends on consideration of a number of factors including the physical strength of the glove, the degree of manual dexterity required, the amount of permeation through the glove material, and the duration of wear. There is a wide range of elastomeric and laminate gloves available. Common elastomeric glove material include (latex) natural rubber, neoprene (polyisoprene), nitrile rubber (ABS rubber), butyl rubber, polyvinyl alcohol (PVA), polyvinyl chloride (PVC), and fluoroelastomers. Laminate gloves are made from heat-sealed sheets of PVA between layers of polyethylene. In permeation tests, PVA/Polyethylene laminate and supported PVA gloves performed best (note that PVA can be rendered ineffective by contact with water if the laminate layer is breached). Butyl and nitrile rubber gloves offer short-term protection. Latex Surgical gloves offer little protection. Gloves should be stored correctly and changed regularly, especially if excessive exposure has occurred.

Eye protection: Eye protection corresponding to a recognized standard should be worn if a risk assessment shows that eye contact is possible.

Section 9: Physical and Chemical Properties

Form: Liquid

Odor: Esther like

Colour: Clear/opaque

pH: Not applicable

Melting point/melting range: Not applicable

Boiling point/boiling range: >100°C

Flash point: >90°C

Flammable limits (lower) (%v/v): Not applicable

Upper/lower flammability or explosive limits: Not determined

Auto ignition temperature: >430°C

Danger of explosion: Not applicable

Oxidizing properties: Not applicable

Vapor pressure: Not determined

Relative density: 1.11 - 1.15 g/cm³

Solubility: Poorly soluble

Viscosity: Approx. 800-1500 Pa*s

Section 10: Stability and Reactivity

Conditions to avoid: Conditions to avoid: The product is stabilized. However, polymerization may occur when the expiry date and/or storage temperature is considerably exceeded.

Materials to avoid: When heated above the flash point, flammable vapors are emitted which can mix with air and can burn or be explosive. Vapors are heavier than air and may travel to the source of ignition and flash back. Heat can cause polymerization with a rapid release of energy which may rupture the container explosively.

Incompatible materials: Strong oxidizers, strong reducers, inert gas, and oxygen scavengers.

Hazardous decomposition products: Carbon oxides when burned.

Section 11: Toxicological Information

Acute toxicity: LD50 acute oral rat: >2000 mg/kg

LD50 acute dermal rat: >2000 mg/kg

Potential routes of exposure/potential health effects

Skin: May cause an allergic skin reaction.

Eye: High vapor concentration may cause irritation.

<p>Inhalation: Irritating to the respiratory system. High atmospheric concentration may lead to irritation of the respiratory tract, dizziness, headache, and anesthetic effects.</p> <p>Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.</p>										
Section 12: Ecological Information (non-mandatory)										
<p>Environmental Fate and Distribution: Liquid with low volatility. The product is slightly soluble in water. The product has low potential for Bioaccumulation in small amounts.</p> <p>Environmental Exposure Controls: This product should not be allowed to drain in sewers.</p>										
Section 13: Disposal Considerations										
<p>Proper disposal/product: Disposal in accordance with regulatory requirements.</p> <p>Proper disposal/packaging: May be disposed of in accordance with local regulatory requirements. Decontaminate empty drums before recycling.</p> <p>Ecology - waste materials: Avoid discharge into the environment</p>										
Section 14: Transport Information (non-mandatory)										
<p>No hazardous material as defined by the prescriptions. No specific regulation for transport necessary. This product is NOT classified as dangerous for IATA Transport. Non-hazardous; Non-restricted Materials.</p>										
Section 15: Regulatory Information (non-mandatory)										
<p>EC Classification: Irritant, Sensitizing, and Harmful</p> <p>Hazard Symbol: Xi: Irritating</p> <table> <tr> <td>H315</td> <td>Causes skin irritation</td> </tr> <tr> <td>H317</td> <td>May cause an allergic skin reaction.</td> </tr> <tr> <td>H319</td> <td>Causes serious eye irritation.</td> </tr> <tr> <td>H335</td> <td>May cause respiratory irritation.</td> </tr> <tr> <td>H413</td> <td>May cause long-lasting harmful effects to aquatic life.</td> </tr> </table>	H315	Causes skin irritation	H317	May cause an allergic skin reaction.	H319	Causes serious eye irritation.	H335	May cause respiratory irritation.	H413	May cause long-lasting harmful effects to aquatic life.
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Section 16: Other Information										
<p>Training tips: None</p> <p>Recommended restriction(s) on use: No special measures are required.</p> <p>Further information: 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.</p>										