



# AMERICAN TOOTH INDUSTRIES

1200 Stellar Drive • Oxnard, CA 93033-2404 • (805) 487-9868  
Corporate e-mail: info@americantooth.com • www.americantooth.com

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	Justi Temporary Crown & Bridge Resin Liquid
<b>Product Description</b>	Methacrylate Monomer
<b>Manufacturer</b>	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
<b>Recommended use</b>	An autopolymerizing liquid resin for fabricating a crown, bridge or splint. It is very hard, color stable, easy to polish and comes in light, medium and dark shade. This material has a low exothermic heat peak, and therefore, is tolerable to the oral cavity; it does not burn.
<b>Restrictions on use</b>	Industrial use only

### 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b> Flammable liquid	<b>Physical, Health, Environmental</b> Flammable liquid- Category 3 Skin Corrosion/Irritation-Category 2 Eye Damage Irritation-Category 2A Skin Sensitizer-Category 1 Carcinogenicity-Category 2
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	H226 Flammable liquid and vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H351 Suspected of causing cancer



## Symbol

## Precautionary statements

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P210 Keep away from heat/sparks/open flames/hot surfaces– No smoking  
P233 Keep container tightly closed  
P240 Ground and bond container and receiving equipment  
P241 Use explosion-proof electrical/ventilating/light/.../equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 Wash hands and exposed skin thoroughly after handling  
P272 Contaminated work clothing should not be allowed out of the workplace  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P281 Use personal protective equipment as required  
P321 Specific treatment (see ... on this label)  
P362 Take off contaminated clothing and wash before reuse  
P363 Wash contaminated clothing before reuse  
P302+P352 IF ON SKIN: Wash with soap and water  
P303+P361  
+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P305+P351  
+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P332+P313 If skin irritation occurs: Get medical advice/attention

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention  
P337+P313 Get medical advice/attention  
P370+P378 In case of fire: Use CO2 for extinction  
P405 Store locked up  
P403+P235 Store in a well ventilated place. Keep cool  
P501 Dispose of contents/container to an authorized disposal facility

**Other hazards** N/A

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity See table below for required information including percentage of unknown toxicity in mixture

Chemical name Promoted Isobutyl Methacrylate Monomer

Common name/synonyms Crosslinked Alkyl Mehtacrylate

Impurities and stabilizing additives\*

Chemical Name	Weight -%	CAS Number
Isobutyl Methacrylate	90-100	97-86-9
Dimethyltolylamine	1-5	99-97-8

\*Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

### 4. FIRST AID MEASURES

**General Advice** Provide the SDS to medical personnel for treatment

**Inhalation** Remove victim to fresh air. Seek immediate medical attention.

**Skin Contact** Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

**Eye Contact** If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**Ingestion** If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk

IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

**Clothing**

Remove contaminated clothing, wash thoroughly before reuse.

**Notes to Physician**

This product contains N,N-Dimethyl-p-Toluidine at a low concentration (does not meet criteria for reporting in section 3). While complications from this component are not expected, the presence of this material in the body leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. This is reversed spontaneously after termination of exposure. Treat cyanosis with supportive measures such as bed rest and oxygen inhalation. Thoroughly cleanse the entire contaminated area of the body. If extensive cyanosis is present, treat with methylene blue and vitamin B12.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Chemical (alcohol-resistant) foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

Water spray or water stream may not be effective.

**Special hazards arising from substance**

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is a flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.

**Hazardous combustion products**

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

**Special firefighting procedures**

Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to

build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

### **Special protective equipment and Precautions for fire fighters**

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter fire area without proper protection. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.

## **6. ACCIDENTAL RELEASE MEASURES**

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

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

### **Environmental precautions**

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. May contaminate water supplies/be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### **Methods and materials for containment and cleaning up**

Methods for containment: Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply. Methods for cleaning up: Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap.

## **7. HANDLING AND STORAGE**

### **Handling**

Keep away from heat, sparks, and flame. Keep container closed after each use. Do NOT use localized heat source such as band heaters to

heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on label. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label.

**Storage**

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

**Incompatible materials**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**OSHA Permissible Exposure Limits** N/A

**ACGIH Threshold Limit Values** N/A

**Other limitations recommended by manufacturer** N/A

**Appropriate Engineering Controls** Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personnel Protective Equipment (PPE)**

## Respiratory Protection

A respirator should be worn whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

## Eye/Face Protection

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

## Skin and Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact:

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Splash contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 120 min

## General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear
<b>Color</b>	N/A
<b>Odor</b>	N/A
<b>Odor Threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting Point</b>	N/A
<b>Freezing Point</b>	N/A
<b>Initial Boiling Point</b>	N/A
<b>Boiling Range</b>	155°C
<b>Flash Point</b>	113 F, 45°C
<b>Evaporation Rate</b>	N/A

<b>Flammability (solid, gas)</b>	0%
<b>Upper/Lower Flammability limits</b>	N/A
<b>Explosive Limits</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Relative Density</b>	N/A
<b>Solubility</b>	N/A
<b>Partition Coefficient: n-octano/water</b>	N/A
<b>Auto-ignition Temperature</b>	390°C
<b>Decomposition Temperature</b>	N/A
<b>Viscosity</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	N/A
<b>Chemical Stability</b>	Stable
<b>Hazardous Reactions</b>	Hazardous polymerization will not occur
<b>Conditions to avoid</b>	N/A
<b>Materials to avoid</b>	N/A
<b>Hazardous Decomposition Products</b>	N/A

## 11. TOXICOLOGICAL INFORMATION

<b>Mixture Toxicity</b>	Inhalation Toxicity: 70mg/L
<b>Component Toxicity</b>	99-97-8 Dimethyltolylamine Oral: 1,650 mg/kg (Rat) Dermal: 500 mg/kg (Rat) Inhalation: 1,400 mg/m <sup>3</sup> (Rat)
<b>Routes of Exposure</b>	No data available
<b>Inhalation</b>	N/A
<b>Ingestion</b>	N/A
<b>Skin</b>	N/A
<b>Eye</b>	N/A
<b>Target Organs</b>	No data available
<b>Effects of Overexposure</b>	N/A

### **Product Components Listed as Carcinogenic**

<u>CAS Number</u>	<u>Description</u>	<u>%Weight</u>	<u>Carcinogen Rating</u>
99-97-8	Dimethyltolylamine	1-5%	Dimethyltolylamine:DMPT is known to the State of California to be a carcinogen, and is a Prop. 65 list chemical. DMPT is a listed carcinogen by NTP, DMPT is not listed as a carcinogen by IARC and ACGIH

**Description of delayed, immediate or chronic effects from short term and long term exposure:**



N/A

**Description of symptoms:**

N/A

**12. ECOLOGICAL INFORMATION (If available)**

**Component Ecotoxicity**

Isobutyl Methacrylate	96 Hr LC50 Oncorhynchus mykiss: 20 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 23 mg/L
Dimethyltolylamine	96 Hr EC50 Pseudokirchneriella subcapitata: 0.29 mg/L 96 Hr LC50 Pimephales promelas: 42 - 50.5 mg/L [flow-through]

**13. DISPOSAL CONSIDERATIONS (If applicable)**

**Waste Treatment Methods**

**Disposal of Wastes**

It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. When discarded as shipped it is a hazardous waste by the EPA under RCRA. After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

**Contaminated Packaging**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

**14. TRANSPORT INFORMATION (If available)**

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	ISOBUTYL METHA-CRYLATE, STABLIZED SOLUTION	UN2283	III	3
IATA	ISBUTYL METHA-CRYLATE, STABLIZED SOLUTION	UN2283	III	3
IMDG	ISBUTYL METHA-CRYLATE, STABLIZED SOLUTION	UN2283	III	3

**15. REGULATORY INFORMATION**

**State of California Safe Drinking Water and Toxic Enforcement Act of 1986**

**(Proposition 65):** WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: 99-97-8 Dimethyltolylamine 1 to 5 % Carcinogen

**SARA 313**

- None

**US State Right-to-Know Regulations**

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	Canada DSL	Yes
	EINECS	Yes
	SARA Hazard categories	No
	TSCA Inventory	Yes

**16. OTHER INFORMATION**

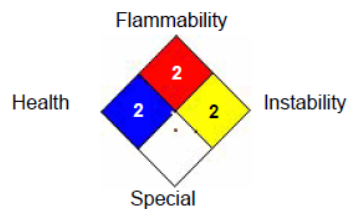
**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<input type="text" value="2"/>
<b>FLAMMABILITY</b>	<input type="text" value="2"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="2"/>
<b>PERSONAL PROTECTION</b>	<input type="text" value="B"/>

**HMIS & NFPA Hazard Rating**

**Legend**  
\* = Chronic Health Hazard  
0 = INSIGNIFICANT  
1 = SLIGHT  
2 = MODERATE  
3 = HIGH

**National Fire Protection Association (NFPA)**



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