



AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

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

PRODUCT NAME	Justi Study Model Material Powder
Product Description	Pink, Methacrylate Polymer
Manufacturer	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
Recommended use	A methyl methacrylate self-curing material that can be poured into a silicone or rubber mold with a recommended technique that will duplicate the model in an off-white/cream color. It can be used for fabricating study model cases that emphasize the appliance rather than the model. This material can be used for many other applications where an off-white resin is needed with an autopolymerization system. Cure time is approximately 20 minutes in open air. Pressure pot technique is recommended for a more compact, dense model.
Restrictions on use	Industrial use only

2. HAZARDS IDENTIFICATION

Hazard classification	Physical, Health, Environmental Eye Damage/Irritation-Category 2A Skin Sensitizer-Category 1
Signal Word	Warning
Hazard Statements	H317 May cause an allergic skin reaction H319 Causes serious eye irritation

Symbol



Precautionary statements

P240 Ground and bond container and receiving equipment
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
P321 Specific treatment (see ... on this label)
P363 Wash contaminated clothing before reuse
P302+P352 IF ON SKIN: Wash with soap and water
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P337+P313 Get medical advice/attention
P501 Dispose of contents/container to an authorized disposal facility

Other hazards

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity

N/A

Chemical name

Poly Ethylmethacrylate

Common name/synonyms

N/A

Impurities and stabilizing additives*

Chemical Name	Weight -%	CAS Number
2-Propenoic acid, 2-methyl-, ethyl ester, homopolymer	90-100	9003-42-3
Benzoyl Peroxide	1-5	94-36-0
Titanium Dioxide (CI 77891)	0-1	13463-67-7

*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.

Most important symptoms or effects, both acute and delayed:

N/A

Indication of immediate medical attention and special treatment needed:

N/A

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

Water may not be effective in extinguishing this fire.

Special hazards arising from substance

Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

Special protective equipment and

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

Precautions for fire fighters

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into

air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

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. Keep airborne particulates at a minimum when cleaning up spills. 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. 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

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. 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. Not a RCRA Hazardous waste.

7. HANDLING AND STORAGE

Handling

Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Avoid prolonged contact with the product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

Storage

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat.

Storage temperature

The temperature should remain at or under 72°F (22°C) at all times. Storing at above recommended temperature will cause product performance issues. Store in accordance with National Fire Protection Association recommendations. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

Incompatible materials

Strong oxidizers, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits

Benzoyl Peroxide: 5mg/m³ TWA
Titanium Dioxide: 15mg/m³ TWA

ACGIH Threshold Limit Values

Benzoyl Peroxide: 5mg/m³ TWA
Titanium Dioxide: 10mg/m³ TWA

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear

Odor

Faint

Flash Point

577 F, 303 C

Upper/Lower Flammability limits

0%

Auto-ignition Temperature

80°C

10. STABILITY AND REACTIVITY

Reactivity

Stable

Chemical Stability

Stable

Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to avoid

N/A

Materials to avoid

N/A

Hazardous Decomposition Products

Methacrylate Monomer and Oxides of Carbon when burned.

11. TOXICOLOGICAL INFORMATION

Identify likely routes of exposure:

Inhalation	Overexposure by inhalation of titanium dioxide may include mild and temporary upper respiratory irritation with cough and shortness of breath.
Ingestion	N/A
Skin	N/A
Eye	N/A

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)

N/A

13. DISPOSAL CONSIDERATIONS (If applicable)

Waste Treatment Methods

Disposal of Wastes

Dispose waste material in accordance with Federal, State, and Local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. 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 applicable)

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Not Regulated, Polymer, NOS			
IATA	Not Regulated, Polymer, NOS			
IMDG	Not Regulated, Polymer, NOS			

15. REGULATORY INFORMATION (If available)

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:
 13463-67-7 Titanium Dioxide (CI 77891) 0.1 to 1.0 % Carcinogen

SARA 313

Benzoyl Peroxide 94-36-0

US State Right-to-Know Regulations

- None

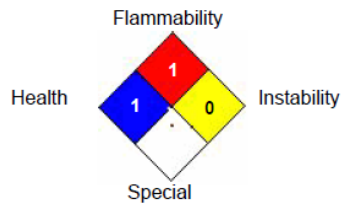
Country	Regulation	All Components Listed
Canada	DSL	Yes
	EINECS	Yes
	SARA Hazard categories	No
	TSCA Inventory	Yes

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="1"/>	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text" value="1"/>	
PHYSICAL HAZARD	<input type="text" value="0"/>	
PERSONAL PROTECTION	<input type="text" value="B"/>	

National Fire Protection Association (NFPA)



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