



AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

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

PRODUCT NAME	Justi Cold/Cure Ortho Resin Powder
Product Description	Plasticized Polymethyl Methacrylate/Copolymer Blend
Manufacturer	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
Recommended use	An autopolymerizing material primarily used in the construction of orthodontic appliances. The powder is a low-flow polymer that absorbs the monomer rapidly. This prevents the material from slumping when using the liquid dropper technique.
Restrictions on use	Industrial Use Only

2. HAZARDS IDENTIFICATION

Hazard classification	Physical, Health, Environmental
Signal Word	Warning
Hazard Statements	H319 Causes serious eye irritation H361 Suspected of damaging fertility or the unborn child H402 Harmful to aquatic life

Symbol



Precautionary statements	P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood
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P264 Wash hands and exposed skin thoroughly after handling
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P281 Use personal protective equipment as required
 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
 P337+P313 Get medical advice/attention
 P405 Store locked up
 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 Polymethyl Methacrylate

Common name/synonyms N/A

Impurities and stabilizing additives

Chemical Name	Weight-%	CAS Number
Polymethyl Methacrylate	70-80	9011-14-7
Diethyl Phthalate	10-20	84-66-2
2-Propenoic acid, 2-methyl-ethyl ester, polymer with methyl 2-methyl-2propenoate	5-10	25685-29-4

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

4. FIRST AID MEASURES

Description of First Aid Measures

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

Not known

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 Precautions for fire fighters

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.

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

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 and materials 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. 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.

Incompatible materials

Strong oxidizers, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits

N/A

ACGIH Threshold Limit Values

5 mg/m³ TWA

Other limitations recommended by manufacturer 5 mg/m³ TWA

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
Boiling Range	295 °C
Flash Point	579°F, 304°C
Evaporation Rate	No data available
Upper/Lower Flammability limits	0%

10. STABILITY AND REACTIVITY

Reactivity	N/A
Chemical Stability	Stable
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to avoid	N/A
Materials to avoid	Strong oxidizers
Hazardous Decomposition Products	Methacrylate Monomer and Oxides of Carbon when burned.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

Effects of Chronic Exposure

Carcinogenicity

Dibutyl Phthalate is listed by the EPA and OSHA as a possible carcinogen. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

Reproductive Toxicity

Women working where phthalates are used had higher incidence of miscarriages, menstrual disorders, and reduced gestation periods.

Teratogenicity

Dibutyl Phthalate may cause fetal effects based on animal studies.

Mutagenicity Data

This product is not reported to produce mutagenic effects in humans.

Identify likely routes of exposure:

Inhalation	N/A
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)

Very large releases of this product is harmful or fatal to overexposed aquatic life.

Component Ecotoxicity

Diethyl Phthalate

96 Hr LC50 Pimephales promelas: 17 mg/L [flow through]; 96 Hr LC50 Pimephales promelas: 16.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 22 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.7 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 12 mg/L [flow-through]
 48 Hr EC50 Daphnia magna: 36 - 74 mg/L; 48 Hr EC50 Daphnia magna: 86 mg/L [Static]
 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L; 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L [static]; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 42 - 255 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 2.11 - 4.29 mg/L [static]

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)

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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:

- None

SARA 313

- None

US State Right-to-Know Regulations

- None

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

16. OTHER INFORMATION

Health	1
Flammability	1
Physical Hazard	1
Personal Protection	B

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