

AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

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

PRODUCT NAME

Justi Pakto Liquid

Product Description Ethylenedioxydiethyl Dimethacrylate

Manufacturer American Tooth Industries

1200 Stellar Drive Oxnard, CA 93033 805-487-9868

Emergency Phone Number: Infotrac: 800-352-5053

Recommended useJusti-Pakto is a new crown and bridge resin

material system designed to save time and labor while offering maximum physical properties to simulate the hardness of natural dentition. Justi-Pakto is not a methyl methacrylate, a composite or a porcelain. It is 100% poly glycol dimethacrylate resin and is processed in a dry heat pressurized

chamber.

Restrictions on use Industrial use only

2. HAZARDS IDENTIFICATION

Classification (REGULATION (EC) No 1272/2008):

Skin sensitization, 1, H317

Classification (Directive 67/548/EEC):

R43

Signal Word Warning

Hazard Statements H317 : May cause an allergic skin reaction.

Symbol



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Precautionary statements P261 : Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P280 : Wear protective gloves/ protective clothing/

eye protection/ face protection.

P333 + P313 : If skin irritation or rash occurs: Get

medical advice/ attention.

Other hazards

Environmental Effects:

Harmful to fish. Readily biodegradable Slightly bioaccumulable.

Physical and chemical hazards:

Formation of toxic products through combustion

Decomposition products: See chapter 10

3. COMPOSTITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity N/A

Chemical name Ethylenedioxydiethyl Dimethacrylate

Common name/synonyms N/A

Impurities and stabilizing additives*

Chemical Name	Weight -%	CAS Number
2,2'-Ethylenedioxydiethyl dimethacrylate	95-100	109-16-0

^{*}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 Move to fresh air. Oxygen or artificial respiration if

needed. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water

while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see

a physician.

Eye Contact Wash open eyes immediately, abundantly and

thoroughly for at least 15 minutes. Seek advice of

an ophthalmologist if necessary.

Ingestion Do NOT induce vomiting. Rinse mouth. Consult a

physician if necessary.

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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 Carbon dioxide (CO2), foam, Dry chemical

Unsuitable extinguishing media High volume water jet

Special hazards arising from substance Formation of toxic products through combustion:,

Carbon oxides

Specific methods:

In the event of fire and/or explosion do not breathe

fumes. Use water spray to cool unopened

containers. Do not allow run-off from firefighting to

enter drains or water courses.

Special protective equipment and

apparatus and protective suit.

6. ACCIDEDNTAL RELEASE MEASURES

Personal precautions, protective

equipment and emergency procedures Use personal protective equipment. Ensure

adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Prohibit contact with skin and eyes. Avoid inhalation of

vapour or mist.

Environmental precautionsDo not flush into surface water or sanitary sewer

system. Do not release into the environment.

Methods and materials for containment

and cleaning up

Shovel into suitable container for disposal. Absorb

the remainder with an inert absorbent material (sand, vermiculite, perlite). No sparking tools

should be used.

7. HANDLING AND STORAGE

Technical measures/Precautions: Storage and handling precautions applicable to

products: Liquid. Sensitizing. Provide appropriate

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exhaust ventilation at machinery. Provide showers,

eye-baths

Handling Remove all sources of ignition. Avoid static

electricity build up with connection to earth. In case of insufficient ventilation, wear suitable respiratory

equipment

Hygiene measures: Take off immediately all contaminated clothing.

Prohibit contact with skin and eyes. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Storage Keep tightly closed in a dry, cool and well-ventilated

place. Store in original container. Protect from frost, heat and sunlight. Keep away from open flames, hot surfaces and sources of ignition. Make sure of the presence of air and inhibitor in the drums.

Storage temperature < 45 °C

Incompatible materials Acids Bases Oxidizing agents Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL):

End Use	Inhalation	Ingestion	Skin contact
Workers	48,5 mg/m3 (LT, SE)		13,9 mg/kg (LT, SE)
Consumers	14,5 mg/m3 (LT, SE)	8,33 mg/kg (LT, SE)	8,33 mg/kg (LT, SE)

LE: Local effects, **SE**: Systemic effects, **LT**: Long term, **ST**: Short term

Predicted No Effect Concentration:

Compartment:	Value:
Fresh water	0,164 mg/l
Soil	0,274 mg/kg dw
Marine sediment	0,185 mg/kg dw
Fresh water sediment	1,85 mg/kg dw
Effects on waste water treatment plants	10 mg/l
Water (Intermittent release)	0,164 mg/l
Marine water	0,0164 mg/l

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8.2. Exposure controls:

Appropriate engineering controls: When working in confined spaces (tanks,

> containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended

equipment.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable

respiratory equipment

Hand protection: Gloves nitrile rubber

butyl-rubber

Products used with solvents

Do not use:, Natural Rubber, Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Eye/face protection: Safety glasses with side-shields, Do not wear

contact lenses.

Skin and body protection: Long sleeved clothing

Environmental exposure controls: See section 6

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Liquid

Color Slightly Yellowish

-88 °C (Pressure 1.013 hPa) **Melting Point/Freezing Point Initial Boiling Point** Decomposes on heating. **Boiling Range** Decomposes on heating.

Flash Point > 150 °C (1.012,25 hPa) (A9 Method (D.

92/69/ECC))

Relative Density 1,092 at 20 °C (Literature)

3,6 g/l at 20 °C (OECD Test Guideline 105) Solubility Partition Coefficient: n-octano/water log Kow: 2,3 (OECD Test Guideline 117) **Auto-ignition Temperature** 255 °C at 1.025 hPa (Standard: A15)

Decomposition Temperature N/A

Viscosity 9,15 mm2/s, at 20 °C (OECD Test Guideline 114)

10. STABILITY AND REACTIVITY

Reactivity Stable **Chemical Stability** Stable

Hazardous Reactions Inhibitors have been added to stabilize this product

maintaining air in the storage containers is

important to keep inhibitors active

Conditions to avoid Heat, flames and sparks. Remove all sources of

ignition. Take precautionary measures against

static discharges.

Materials to avoid

Acids, Bases, Oxidizing agents, Reducing agents Formation of toxic products through combustion:, **Hazardous Decomposition Products**

Carbon oxides

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11. TOXILOGICAL INFORMATION

Identify likely routes of exposure:

Inhalation N/A

Ingestion Slightly harmful by ingestion

Skin Non irritating to skin Eye Not irritating to the eyes.

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)

Acute toxicity:

Fish: Harmful to fish.

LC50, 96 h (Danio rerio (zebra fish)): 16,4 mg/l

(Method: OECD Test Guideline 203)

Aquatic plants: Slightly harmful to algae

EC50, 72 h (Pseudokirchneriella subcapitata) : > 100 mg/l (Method: OECD Test Guideline 201,

Growth inhibition)

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates: EC10, 21 d (Daphnia magna (Water flea)) : 30,2 mg/l (Method: OECD

Test Guideline 211, reproduction)

Aquatic plants: EC10, 72 h (Pseudokirchneriella subcapitata) : 61 mg/l (Method: OECD Test

Guideline 201, Growth inhibition)

Persistence and degradability:

Biodegradation (In water): Readily biodegradable

85 % after 28 d (Method: OECD Test Guideline

301B)

Bioaccumulative potential:

Bioaccumulation: Slightly bioaccumulable.

Partition coefficient: n-octanol/water: log Kow: 2,3

(Method: OECD Test Guideline 117)

Mobility in soil - Distribution among environmental compartments:

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Vapor pressure: 0,077 Pa, 20 °C, (Method: OECD Test Guideline

104)

Surface tension: Not relevant (due to the chemical structure)

Absorption / desorption: Slight adsorption

log Koc: 1,19 - 1,89 (Method: calculated)

Results of PBT and vPvB assessment:

According to REACH regulation, annex XIII, the substance does not meet PBT and vPvB criteria.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS (If applicable)

Waste treatment:

Disposal of product: Do not release into the environment. Dispose of in

accordance with local regulations.

Disposal of packaging: Empty containers should be taken to an approved

waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION (If applicable)

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION (If available)

N/A

16. OTHER INFORMATION

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