



AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

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

PRODUCT NAME	Impak & Impak PF - Liquid
Product Description	Ethyl Methacrylate Monomer
Manufacturer	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
Recommended use	Powder to Liquid Ratio 3:1 by Volume Important: The addition of more liquid to the IMPAK mix makes the cured appliance softer and more pliable (less liquid will make it stiffer). The operator may wish to vary the proportion of powder to liquid in order to obtain the softness or stiffness desired. Similarly, the bulkiness of the protector or the size of the mouth may require a larger total mix than indicated. These variations have to be arrived at according to the individual case and in no way will alter the effectiveness of the product. Note: If the appliance is too soft, some support will be sacrificed. The IMPAK protector is always considerably softer at mouth temperature than it might feel in the hand.
Restrictions on use	For Professional Use Only

2. HAZARDS IDENTIFICATION

Hazard classification	GHS Classification: Flammable liquid Category 2 Skin Corrosion/Irritation - Category 2 Skin sensitization Category 1 Serious eye damage/eye irritation Category 2A Specific target organ toxicity-single exposure Category 3 (respiratory tract irritation) Specific target organ toxicity-single exposure Category 3 (narcotic effects)
Signal Word	Danger

Hazard Statements

H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.

Symbol

Flammable, Irritant, Health Hazard



Precautionary statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302/352 - IF ON SKIN: Wash with plenty of soap and water.
P303/361/353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403/233 - Store in a well-ventilated place. Keep container tightly closed.

EYE:
Causes eye irritation.

SKIN:
Causes skin irritation.

INHALATION:
Causes respiratory tract irritation.

INGESTION:
Harmful if swallowed. Do not induce vomiting.

SIGNS AND SYMPTOMS OF EXPOSURE:
Dizziness, nausea, headache and loss of consciousness. Irritation of the eyes, throat, nose and skin may occur.

CHRONIC EFFECTS:
Prolonged or repeated overexposure may cause skin irritation or sensitization in some individuals.

TARGET ORGAN:
Prolonged exposure may cause allergic skin reaction, kidney damage, liver damage, lung, and heart damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Individuals with pre-existing skin conditions may be at increased risk from exposure.

Other hazards N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity N/A

Chemical name Ethyl Methacrylate Monomer

Common name/synonyms Ester

Impurities and stabilizing additives*

Chemical Name	Weight -%	CAS Number
ETHYL METHACRYLATE	48.0%	97-63-2
HYDROQUINONE	<1.0%	123-31-9
P-METHOXYPHENOL	<1.0%	150-76-5
CONFIDENTIAL INGREDIENT A	50.0%	Trade Secret

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains materials that are acute, fire hazards

*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 and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell
Skin Contact	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before re-use.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth. Obtain immediate medical attention.

Most important symptoms or effects, both acute and delayed:

Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed:

None necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	In case of fire, use water spray, foam, dry powder or CO ₂ for extinction. Keep containers cool by spraying with water if exposed to fire.
Unsuitable extinguishing media	Do not use water jet.
Special hazards arising from substance	Highly flammable liquid and vapor. May polymerize on heating. Sealed containers may rupture explosively if hot and emit toxic fumes under fire conditions.
Special protective equipment and Precautions for fire fighters	A self-contained breathing apparatus with full face mask operated in a positive pressure-demand mode and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Eliminate source of ignition. Wear protective gloves and eye/face protection. Avoid vapors
Environmental precautions	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
Methods and materials for containment and cleaning up	Evacuate and ventilate spill area. Remove all potential ignition sources. Dike and confine with inert absorbent. Collect and store material in closed DOT approved waste container.

7. HANDLING AND STORAGE

Handling	Do not eat, drink, or smoke at the work place. Wash thoroughly after handling. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. The vapor is heavier than air; beware of pits and confined spaces.
Storage	Ground container and receiving equipment. Use explosion proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Store in well-ventilated place. Keep cool. Store locked up. Keep away from heat, sparks, open flame, hot surfaces- No smoking. Protect from sunlight. IMPORTANT: Methacrylates stored in bulk must be kept in contact with air (oxygen). Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.
Storage temperature	Store at temperatures not exceeding 77°F (25°C).
Incompatible materials	Keep away from oxidizers and other incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits	This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains materials that are acute, fire hazards
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EXPOSURE GUIDELINES:
ETHYL METHACRYLATE
OSHA TWA: 50 ppm
HYDROQUINONE
OSHA PEL: 2 mg/m³
OSHA TWA: 2 mg/m³

ACGIH Threshold Limit Values

N/A

**Other limitations recommended
by manufacturer**

EYE / FACE PROTECTION REQUIREMENTS:
Chemical goggles or safety glasses are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:
Wear impervious gloves.

RESPIRATORY PROTECTION REQUIREMENTS:
When there is potential

Appropriate Engineering Controls

Keep container tightly closed. Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Colorless
Odor	Sharp and Sweet
Odor Threshold	N/A
pH	N/A
Melting Point	N/A
Freezing Point	N/A
Initial Boiling Point	N/A
Boiling Range	243 F @ 760 mm Hg
Flash Point	26 C (78.8 F)
Evaporation Rate	1.5
Flammability (solid, gas)	N/A
Upper/Lower Flammability limits	N/A
Explosive Limits	100%
Vapor Pressure	14 mm Hg @68 F
Vapor Density	3.94 (Air =1)
Relative Density	N/A
Solubility	Water - .05 GRS (100 GRS)
Partition Coefficient: n-octano/water	N/A
Auto-ignition Temperature	N/A
Decomposition Temperature	N/A
Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity	Hazardous polymerization may occur.
Chemical Stability	Unstable if heated
Hazardous Reactions	Hazardous polymerization may occur.
Conditions to avoid	Avoid direct heat, excessive heat and other ignition sources
Materials to avoid	N/A
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and smoke

11. TOXICOLOGICAL INFORMATION

Identify likely routes of exposure:

Inhalation	May cause respiratory irritation. May cause drowsiness and dizziness. ETHYL METHACRYLATE Test Code: LC50 Species: Rat Results: 8300 ppm/4 hr (low toxicity by inhalation)
Ingestion	Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract. HYDROQUINONE Test Code: Oral LD50 Species: Rat Results: 13,468 mg/kg (low toxicity by ingestion)
Skin	May cause an allergic skin reaction. Causes skin irritation. Repeated and/or prolonged contact may cause dermatitis.
Eye	Causes serious eye irritation

12. ECOLOGICAL INFORMATION (If available)

No information available.

13. DISPOSAL CONSIDERATIONS (If applicable)

WASTE DISPOSAL:

Dispose of waste material in accordance with all local, state/provincial, and national requirements.

Avoid release to the environment. Decontaminate empty drums before recycling.

Disposal methods Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of flammable organics.

14. TRANSPORT INFORMATION (If applicable)

PRODUCT LABEL: Impak & Impak PF - Liquid
TECHNICAL SHIPPING NAME: Ethyl Methacrylate Stabilized
D.O.T. HAZARD CLASS: 3, PG II
UN NUMBER: 2277

15. REGULATORY INFORMATION (If available)

REGULATORY DISCLOSURES:

This product contains the following substances know to the State of California to cause cancer:

EEC Symbols and Indications of Danger:

Highly Flammable (F), Irritant (Xi)



R-Phrases:

R36/37/38 - Irritating to eyes, respiratory system, and skin.
R11 - Highly flammable.
R43 - May cause sensitization by skin contact.

S-Phrases:

S16 - Keep away from sources of ignition. No smoking.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S24/25 - Avoid contact with skin and eyes.
S36/37 - Wear suitable protective clothing and gloves.

Canadian Disclosure List

ETHYL METHACRYLATE (97-63-2)

CERCLA Hazardous Substances

ETHYL METHACRYLATE (97-63-2) -- RQ 1000 lb

RCRA Hazardous Substances

Impak & Impak PF -Liquid
RTN Number: 00000291
Impak & Impak PF -Liquid (BLEND) --
ETHYL METHACRYLATE (97-63-2) -- RCRA Code: U118

1/

Title V

HYDROQUINONE (123-31-9)

SC Toxic Air Pollutants List

HYDROQUINONE (123-31-9)

16. OTHER INFORMATION

NFPA Rating

Health - 2

Flammability - 3

Reactivity - 2

NPCA-HMIS Rating

Health - 2

Flammability - 3

Reactivity - 2

Date of Revision: 1/11/2023

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