



SAFETY DATA SHEET

ZAP-ACRYLIC (Liquid)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION:

Monomer for the fabrication of acrylic dental appliances.

Date Revised: May, 2015

Dental Ventures of America, Inc.
1787 Pomona Rd., Suite C
Corona, 92880, CA.

Emergency Phone: 951.270.0606
Alternative Emergency Phone: 800.228.6696
Emergency Contact: Infotrack: 800.535.5053

USE OR APPLICATION: Recommended Use of the Chemical and Restrictions on Use.

Recommended Use Dental/Denture application
Uses Advised Against For Professional use only

OTHER MEANS OF IDENTIFICATION

SDS# SGT-004

2. HAZARD(S) IDENTIFICATION

SIGNAL WORD

Danger

GHS LABEL ELEMENTS



Highly flammable liquid and vapor.

Classification of the substance or mixture

This substance is classified as hazardous according to GHS

Regulation EC1272/2008

Physical H225	Flammable Liquids	Hazard category 2
Health H315	Irritation of skin	Hazard category 2
H317 Skin sensitisation		Hazard category 1B
H335 Specific Target Organ Toxicity		Hazard category 3

Single exposure (inhalation)

HAZARD STATEMENTS

H225 Highly flammable liquid or vapor
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation



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PRECAUTIONARY STATEMENTS

(Prevention)	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection
(Response)	P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
(Disposal)	P501 Dispose of contents/container in accordance with local regulation
Hazardous components for labelling	Methyl methacrylate

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container in an approved waste disposal plant

Other Hazards

Harmful to aquatic life with long lasting effects

DESCRIPTION OF ANY HAZARDS NOT OTHERWISE CLASSIFIED

3. COMPOSITION /INFORMATION ON INGREDIENTS

SUBSTANCES or MIXTURE: Liquid

NO. COMPONENT	CAS.NO	PERCENT
Methyl Methacrylate Monomer	80-62-6	>96%
1,4-Butanediol	208-81-7	<4.0%
Dimethacrylate	218-218-1	

Under GHS-OSHA 4.11 the precise composition of this product is withheld as confidential business information (CBI). A more complete disclosure can be provided to a health, or safety professional when necessary.

4. FIRST-AID MEASURES

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air, if rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Ingestion	Rinse mouth. DO NOT induce vomiting. Seek medical advice.



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Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms: Overexposure by inhalation may cause CNS depression, drowsiness, dizziness, confusion or loss of coordination. May cause skin and eye irritation. May cause allergic skin reaction. Will cause gastrointestinal tract irritation.

Indication of Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically. Can cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam,
dry chemical, carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Water jet

Specific Hazards Arising from Chemical: Vapors may travel to source of ignition and flash back

Sensitivity to Static Discharge: Take precautionary measures against static discharge.
Flammable mixtures of this product are readily ignited even by static discharge.

Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear protective clothing as described in Section 8 of the SDS. Remove all sources of ignition. The wet contaminated surface may be slippery.

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers, Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air) See Section 12 for additional ecological information.

METHODS AND MATERIALS FOR CONTAINMENT: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).

CLEANUP PROCEDURES: Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state and local regulations. For waste disposal, see Section 13 of the SDS. wash spill area with mild detergent.



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7. HANDLING AND STORAGE

- HANDLING:** Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Wash face, hands and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flame/hot surfaces. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Use only in well-ventilated areas. Keep containers closed when not in use. Keep cool.
- STORAGE:** Keep container tightly closed and in a cool, dry and well-ventilated place. Store between 16-26 C (69-79 F). Store locked up. Protect from damp. Store away from heat and incompatible materials.
- INCOMPATIBILITIES:** Organic peroxides, reducing agent, metallic redox systems, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Methacrylate CAS No.80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m3 (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m3	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m3

PERSONAL PROTECTIVE EQUIPMENT:

- EYES AND FACE:** Splash goggles or safety glasses.
- SKIN:** Polyethylene/Nitrile gloves. Do not use cotton gloves. Polyethylene apron is recommended.
- RESPIRATORY:** Ensure adequate ventilation, especially in confined areas. Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
- WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR:	Characteristic
APPEARANCE:	Colorless liquid
FLASHPOINT AND METHOD:	8 C / 46.4 F Tag Closed Cup
RATE FLAMMABILITY:	+1 (BUTYL ACETATE = 1)
UPPER FLAMMABILITY:	12%
LOWER FLAMMABILITY:	1.5%
VAPOR PRESSURE:	47hpA@20 c
VAPOR DENSITY:	+1 (Air=1)
BOILING POINT:	100 C / 212 F (at 760 mm Hg)
MELTING POINT/RANGE:	-48 C
SOLUBILITY IN WATER:	Slightly soluble
SPECIFIC GRAVITY:	-1 (1=Water)
AUTOIGNITION TEMP.	430 C / 806 F

All other physical and chemical properties not determined.

10. STABILITY AND REACTIVITY

REACTIVITY: Not reactive under normal conditions.

CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Prolonged exposure to elevated temperatures which can cause premature polymerization and release methyl methacrylate vapors.

CONDITIONS TO AVOID: Temperatures >35 C (95 F)

INCOMPATIBLE MATERIALS: Organic peroxides, reducing agent, metallic redox systems, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

Eye Contact: Causes serious eye irritation.

Skin Contact: Causes skin irritation. May cause allergic skin reaction.

Inhalation: May cause irritation to the mucous membranes and upper respiratory tract.

Ingestion: Ingestion may cause irritation to mucus membranes.



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COMPONENT INFORMATION:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Methacrylate	=>5000mg/kg (Rat)	>5000 mg/kg (Rabbit)	=29.8mg/l (Rat) =400 ppm (Rat) 1h

Physical, Chemical and Toxicological Effects: Please see Section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from short and Long-term Exposure

Sensitization: May cause an allergic reaction.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Methacrylate Monomer		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens".

STOT - Single Exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical Measures of Toxicity: Not determined.

12. ECOLOGICAL INFORMATION

EXOTOXICITY EFFECTS:

AQUATIC TOXICITY: Harmful to aquatic life. Harmful to aquatic life with long lasting effects. (Studies on file as requested)

TOXICITY TO OTHER ORGANISMS: Not determined

PERSISTENCE AND DEGRADABILITY: Not determined

MOBILITY: Chemical Name: Methyl Methacrylate Monomer/
Partition Coefficient: 0.7

BIOACCUMULATION: Not determined

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAINER DISPOSAL METHOD: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	RCRA	RCRA-Basis for Listing	RCRA-D Series Wastes	RCRA-U Series Waste
Methyl Methacrylate	U162	Included in waste stream: F039		U162
Methyl Methacrylate Monomer:	California Hazardous Waste Status: Toxic, Ignitable			



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14. TRANSPORT INFORMATION

DOT: Consumer Commodity

IATAI

UN/ID No.: UN1247
Proper Shipping Name: Methyl methacrylate monomer, stablized
Hazard Class: 3
Packing Group: II

IMDG

UN/ID No.: UN1247
Proper Shipping Name: Methyl methacrylate monomer, stablized
Hazard Class: 3
Packing Group: II

15. REGULATORY INFORMATION

International Inventories: Not determined.

US FEDERAL REGULATIONS:

CERCLA

<u>Chemical Name</u>	<u>Hazardous Substances RQs</u>	<u>CERCLA/SARA RQ</u>	<u>Reportable Quantity (RQ)</u>
Methyl Methacrylate Monomer	1000 lb		RQ 1000 lb final RQ RQ 454 Kg final RQ

SARA 313

<u>Chemical Name</u>	<u>CAS No</u>	<u>Weight-%</u>	<u>SARA 313 -Threshold Values</u>	
Trade Secret		Proprietary	1	1.0

CWA (Clean Water Act)

<u>Component</u>	<u>CWA - Reportable Quantities</u>	<u>CWA - Toxic Pollutants</u>	<u>CWA - Hazardous Substances</u>
Methyl Methacrylate Monomer	1000 lb		X

U.S. State Right-to-Know Regulations

<u>Chemical Name</u>	<u>New Jersey</u>	<u>Massachusetts</u>	<u>Pennsylvania</u>
Trade Secret	X	X	X



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16. OTHER INFORMATION

NFPA

Health Hazards, Flammability, Instability, Special Hazards: Not determined

HMIS

Health Hazards, Flammability, Instability, Special Hazards: Not determined

DATE PREPARED: May 20, 2015

SUPERSEDES MSDS: October, 2012

MANUFACTURER DISCLAIMER:

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