

SAFETY DATA SHEETS

This SDS packet was issued with item:

075523378

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

075523329 075523337 075523345 075523352 075523360 075523386 075523394 075523451 075523469 075523477

075523485 075523493 075523501 075523519 075523527

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification

- 1.1 Product Trade Name: EPIC®-A/P
1.2 Distributor: Parkell, Inc.
Address: 155 Schmitt Blvd., Farmingdale, NY
11735 U.S.A. Telephone: 631-249-1134
Facsimile: 631-249-1242

24-Hour Emergency Response Phone No: 1-800-535-5053

SECTION 2: Ingredients

- 2.1 Ingredients: Methacrylic monomers (Bi-functional)
- approx. 20 % Fillers - approx. 80 %

SECTION 3: Hazards

- 3.1 Physical hazards: Combustible viscous substance.
3.2 Health hazards: Contact with eyes and skin may cause irritation. Persons with known sensitivity to methacrylate may show allergic contact dermatitis.

SECTION 4: First-aid Measures

- 4.1 Skin: Flush with soap and plenty of water. Get medical attention if irritation develops or persists.
4.2 Eyes: Immediately flush with flowing water for at least 15 minutes. Get medical attention.
4.3 Ingestion: Consult a physician.
4.4 Inhalation: Normally no hazard. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: Fire-fighting Measures

- 5.1 Flash point: Not known
5.2 Autoignition temp: Not known
5.3 Suitable extinguishing media: Foam, dry chemical, carbon dioxide, dry sand or water.
5.4 Flammable limit: Not known
5.5 Hazardous decomposition products: Toxic gasses such as carbon monoxide, may be released in a fire.
5.6 Special protective equipment: During emergency conditions, over-exposure to thermal decomposition products may cause health hazard. Self contained breathing apparatus should be worn.

SECTION 6: Accidental Release Measure

- 6.1 Methods of cleaning-up: In case material is released or spilled, pick up and place in chemical waste container.

SECTION 7: Handling and Storage

- 7.1 Handling: Observe normal warehouse handling procedures.
7.2 Storage: Store in a cool, dry and dark well-ventilated place. Store away from direct sunlight. Do NOT store under pure nitrogen or oxygen-free gas.

SECTION 8: Exposure Controls/Personal Protection

- 8.1 Special protection required:
Ventilation: Good general ventilation should be sufficient. Respiratory protection: None required during normal use of this product.
Protective gloves: Use rubber or PVC gloves to prevent skin contact.

Protective clothing: None required during normal use of this product.
Eye protection: Use safety glasses.
Other protective equipment: Eye wash station near work area.

SECTION 9: Physical and Chemical Properties

- 9.1 Appearance: Colored paste
9.2 Boiling point: >150°C
9.3 Solubility in water: Not available
9.4 Specific gravity: approx. 2

SECTION 10: Stability and Reactivity

- 10.1 Stability: Stable under normal conditions
10.2 Conditions to avoid: High temperature (above 30°C), high humidity and direct light.
10.3 Incompatibility (materials to avoid): Radical initiators such as peroxide, persulfate, amine.
10.4 Hazardous polymerization: May occur, especially when heated or irradiated or catalyzed.

SECTION 11: Toxicological Information

- 11.1 Health hazards: Contact with eyes and skin may cause irritation. Persons with sensitivity to methacrylate may show allergic contact dermatitis.
11.2 Carcinogenicity: (NTP) No, (IARC) No.

SECTION 12: Ecological Information

- 12.1 Mobility: Not determined
12.2 Degradability: Partially degradable
12.3 Accumulation: Not determined
12.4 Cytotoxicity after cure: (Chinese hamster cell liner): Very weak
12.5 Other adverse effects: Not known

SECTION 13: Disposable Considerations

- 13.1 Disposal method: Incinerate in accordance with all applicable environmental control regulations, or landfill in an industrial landfill, which has approval to receive such wastes.

SECTION 14: Transport Information

- 14.1 Precautions for transport: Observe normal care for transportation of sophisticated health-care materials. Cover from rain, direct sunlight, heat and contaminating materials.

SECTION 15: Others

- 15.1 Prepared in May 2009 by Parkell Inc.
15.2 The information above is believed to be accurate. However, no warranty is made of merchantability, or any other warranty, express or implied, with respect to such information, and no liability resulting from its use is assumed. Users must take their own investigations to determine the suitability of the information for their own particular purposes.

**PARKELL, 300 Executive Drive, PO Box 9004, Edgewood, NY 11717 (631) 249-1134
Toll-Free 1-800-243-7446 Fax: (631) 249-1242 E-Mail: info@parkell.com**



Safety Data Sheet

Issue Date: 01-May-2009

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name EPIC® - AP

Other means of identification

SDS # S310, ETC.

Recommended use of the chemical and restrictions on use

Recommended Use Dental Restorative Material.

Details of the supplier of the safety data sheet

Supplier Address

Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717

Emergency Telephone Number

Company Phone Number (631) 249-1134
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colored paste

Physical State Liquid

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Signal Word

Warning

Hazard Statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Get medical attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Fillers	Proprietary	Proprietary
Methacrylic Monomers	Proprietary	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin Contact	Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Under normal conditions, no adverse effects are expected. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Get medical attention.

Most important symptoms and effects

Symptoms	Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Foam. Dry chemical. Carbon dioxide (CO₂). Water. Dry sand.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic.

Hazardous Combustion Products Carbon monoxide.

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, protective equipment and emergency procedures

Personal Precautions	Use personal protection recommended in Section 8.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Contain and collect with an inert absorbent and place into an appropriate container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from direct sunlight. Do NOT store under pure nitrogen or oxygen-free gas.
Incompatible Materials	Radical initiators such as peroxides, persulfates, and amines.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fillers	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO ₂) mg/m ³ TWA	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
Methacrylic Monomers	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m ³	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m ³

Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Rubber or PVC gloves.

Respiratory Protection No protection is ordinarily required under normal conditions of use and with adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Not determined
Appearance	Colored paste	Odor Threshold	Not determined
Color	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	>150 °C / >302 °F	
Flash Point	Not known	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not known	
Lower Flammability Limit	Not known	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	Approx. 2	
Water Solubility	Not available	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not known	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization May occur, especially when irradiated, heated, or catalyzed.

Conditions to Avoid

Avoid high temperatures (above 30°C/86°F), high humidity, direct sunlight, and ignition sources. Keep separated from incompatible substances. Keep out of reach of children.

Incompatible Materials

Radical initiators such as peroxides, persulfates, and amines.

Hazardous Decomposition Products

Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation. May cause an allergic skin reaction.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Fillers	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Methacrylic Monomers	= 3300 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause an allergic skin reaction.
Carcinogenicity	Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Fillers		Group 3		
Methacrylic Monomers		Group 3		

Legend

IARC (International Agency for Research on Cancer)

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

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Fillers	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static		7600: 48 h Ceriodaphnia dubia mg/L EC50
Methacrylic Monomers	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static		69: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Methacrylic Monomers	0.7

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methacrylic Monomers	U162	Included in waste stream: F039		U162

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methacrylic Monomers	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Fillers	Present	X		Present		Present	X	Present	X	X
Methacrylic Monomers	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methacrylic Monomers	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methacrylic Monomers -		Proprietary	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methacrylic Monomers	1000 lb			X

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fillers	X	X	X
Methacrylic Monomers	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

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Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet