

SAFETY DATA SHEETS

This SDS packet was issued with item:

075523121

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

075523238 75523238

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075522990 075523006 075523014 075523022 075523030 075523048 075523055 075523063 075523071 075523089
075523097 075523105 075523113 075523139 075523147 075523154 075523162 075523170 075523188

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME:	EPIC® - TMPT COMPOSITE	STOCK NO:	S360, etc.
DOT HAZARD LABEL:	None	UN NUMBER:	None
PROPER SHIPPING NAME:	None	DATE PREPARED:	11/6/13
NFPA CODES:	HEALTH -1	FLAMMABILITY - 0	REACTIVITY -1

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	PEL	TLV	%
Di-2-Methacryloxyethyl	No number	NA	NA	
2,2,4-trimethylhexamethylenedicarbamate				
Amorphous micro silica (SiO2)	61790-53-2	80 mg/m ³	10 mg/m ³	

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT:	+300° F	SPECIFIC GRAVITY (H₂O=1):	1.43 (paste)
VAPOR PRESSURE:	Almost 0	PERCENT VOLATILES:	Almost 0
VAPOR DENSITY (Air = 1):	NE	EVAPORATION RATE (Butyl Acetate = 1):	Almost 0
APPEARANCE AND ODOR:	Tan paste without odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	+300° F FLAMMABLE LIMIT (air, % by vol.)	UPPER: N E	LOWER: NE
--------------------	--	-------------------	------------------

EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: During emergency conditions, overexposure to thermal decomposition products may cause health hazard. Self contained breathing apparatus should be worn.

UNUSUAL FIRE & EXPLOSION HAZARDS: When exposed to flame, emits toxic fumes and gases.

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: Heat and light.

INCOMPATIBILITY (Materials to avoid): Polymerization catalyst (peroxides, persulfates, light, heat, nitric acid and other strong oxidizers, ammonia and amines, halogens and halogen compounds).

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal-oxidative degradation can produce toxic and corrosive materials, including carbon monoxide.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID: Hazardous polymerization may occur, especially when heated or catalyzed.

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: EYES SKIN INHALATION INGESTION

HEALTH HAZARDS (Acute & Chronic): Ingestion may cause headache, dizziness, nausea, tinnitus, dispnea, etc. May cause corrosion after contact is made with human eyes. Primary irritant on human skin, repeated prolonged contact can cause irreversible damage to human skin. Inhalation is not hazard unless heated at high temperature. When heated, vapor can cause irritation of the upper respiratory tract and mucous membranes, and high concentrations can cause symptoms similar to those which may be experienced upon ingestion.

SIGNS & SYMPTOMS OF EXPOSURE: See above.

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA?

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Consult medical personnel.

EYES: Immediately flush with copious amounts of water for at least 15 minutes. Get medical attention.

SKIN: Wash skin with copious amounts of soap and water. Wash contaminated clothing and decontaminate footwear before reuse.

INGESTION: Induce vomiting. Get medical attention immediately.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Do not store under pure nitrogen or sparge with nitrogen or oxygen-free gas. Store away from direct sunlight, source of heat, and polymerization catalyst mentioned in SECTION V.

OTHER PRECAUTIONS: Prevent contact with eyes, skin, or clothing. Do not ingest.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Clean-up small spills and residues with absorbent paper or cloth towel.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): Dispose of in accordance with Federal, State, and local regulations.

SECTION VII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH approved respiratory protection for organic gases, if needed.

VENTILATION: General ventilation and local exhaust ventilation where gas evaporation can occur (very high temperature or such).

PROTECTIVE GLOVES: Rubber or PVC Gloves.

EYE PROTECTION: Safety glasses or full face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety shower and eyewash station.

WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.



Safety Data Sheet

Issue Date: 06-Nov-2013

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name EPIC® - TMPT

Other means of identification

SDS # S360, 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 Tan paste

Physical State Liquid

Odor No odor

Classification

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

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Signal Word

Warning

Hazard Statements

Causes skin irritation
Causes serious eye irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

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 occurs: Get medical advice/attention

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Fillers	Proprietary	Proprietary
Matrix Resin	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. Get medical attention if irritation occurs.
Inhalation	Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do not induce vomiting without medical advice. Get medical attention immediately.

Most important symptoms and effects

Symptoms	Causes serious eye irritation. Causes skin irritation; repeated or prolonged contact can cause irreversible damage to human skin. Ingestion may cause headache, dizziness, nausea, tinnitus, dyspnea, etc. Inhalation is not a hazard unless product is heated to a high temperature. When heated, vapor can cause irritation of the upper respiratory tract and mucous membranes; high concentrations can cause symptoms similar to those which may be experienced upon ingestion.
-----------------	---

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

When exposed to flame, product emits toxic fumes and gases.

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.

Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store under pure nitrogen or sparge with nitrogen or oxygen-free gas. Store away from direct sunlight, sources of heat, and polymerization catalysts listed in Section 10.
- Incompatible Materials** Polymerization catalysts such as peroxides, persulfates, light, heat, nitric acid and other strong oxidizers, ammonia and amines, and halogens and halogen compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fillers	-	(vacated) TWA: 6 mg/m ³ Silica, amorphous <1% Crystalline silica : (80)/(%) SiO ₂ mg/m ³ TWA TWA: 20 mppcf	-

Appropriate engineering controls

- Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Safety glasses.
- Skin and Body Protection** Rubber or PVC gloves.
- Respiratory Protection** NIOSH-approved respiratory protection for organic gases.
- 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	No odor
Appearance	Tan paste	Odor Threshold	Not determined
Color	Tan		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	>149 °C / >300 °F	
Flash Point	>149 °C / >300 °F	Tag Closed Cup (butyl acetate = 1)
Evaporation Rate	Almost 0	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not established	
Lower Flammability Limit	Not established	
Vapor Pressure	Almost 0	
Vapor Density	Not established	
Specific Gravity	1.43 (paste)	(Water = 1)
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
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 Hazardous polymerization may occur, especially when heated or catalyzed.

Conditions to Avoid

Keep separated from incompatible substances. Avoid heat and light. Keep out of reach of children.

Incompatible Materials

Polymerization catalysts such as peroxides, persulfates, light, heat, nitric acid and other strong oxidizers, ammonia and amines, and halogens and halogen compounds.

Hazardous Decomposition Products

Thermal-oxidative degradation can produce toxic and corrosive materials, including carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Matrix Resin	= 2500 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Fillers		Group 3		X
Matrix Resin		Group 3		

Legend

IARC (International Agency for Research on Cancer)

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

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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		10000: 72 h Cyprinus carpio mg/L LC50		
Matrix Resin		580: 96 h Lepomis macrochirus mg/L LC50		168: 96 h water flea mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

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.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Fillers	Toxic

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	X	Present	X	
Matrix Resin	Present	X				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**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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		

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

1

Flammability

0

Instability

1

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

Issue Date: 06-Nov-2013

Revision Date: 13-Jan-2015

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