

#### **SAFETY DATA SHEET**

### Section 1. Product And Company Identification

**Product Name: Temphase Base and Catalyst Paste** 

Product Use: Dental product: Temporary Crown and Bridge material

Manufacturer: Kerr Corporation

1717 W. Collins Ave. Orange, CA 92867-5422

U.S.A.

**Information Phone Number**: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: April 23, 2019

# Section 2. Hazards Identification

#### **GHS Classification:**

Skin Irritation Category 2
Eye Irritation Category 2A
Toxic to Reproduction Category 1B
Aquatic Chronic Toxicity Category 3

#### **Label Elements:**

Danger!



### **Hazard Phrases**

Causes serious eve irritation.

Causes skin irritation.

May damage fertility or the unborn child.

Harmful to aquatic life with long lasting effects.

## **Precautionary Phrases:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear protective gloves and eye or face protection.

IF exposed or concerned: Get medical attention.

IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.



IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Store locked up.

Dispose of contents and container in accordance with local and national regulations.

# Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount	
Glass, oxide, chemicals	65997-17-3	30-60%	
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate	24448-20-2	10-30%	
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	10-30%	
Dibutyl phthalate	84-74-2	1-5%	
2,2'-[(4-methylphenyl)imino]bisethanol	3077-12-1	1-5%	
3-trimethoxysilylpropyl methacrylate	2530-85-0	1-5%	
Dibenzoyl peroxide	94-36-0	0.1-1%	

#### **Section 4. First Aid Measures**

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

**Eye Contact:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:** Causes serious eye irritation and skin irritation. Exposure to Dibutyl phthalate may cause reproductive harm.

**Indication of immediate medical attention and special treatment, if needed:** Immediate medical attention is not required.

## **Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, and metal oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.



#### **Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment.

**Environmental Precautions:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

#### **Section 7. Handling and Storage**

**Precautions for Safe Handling:** Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

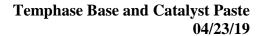
### **Section 8. Exposure Controls / Personal Protection**

### **Exposure Limits**

Chemical	Exposure Limit
Glass, oxide, chemicals	10 mg/m <sup>3</sup> TWA ACGIH TLV (total)
	5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable
	fraction)
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-	None Established
ethanediyl) bismethacrylate	
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-	None Established
dioxa-5,12-diazahexadecane-1,16-diyl	
bismethacrylate	
Dibutyl phthalate	5 mg/m <sup>3</sup> TWA ACGIH TLV
2,2'-[(4-methylphenyl)imino]bisethanol	None Established
3-trimethoxysilylpropyl methacrylate	None Established
Dibenzoyl peroxide	5 mg/m <sup>3</sup> TWA ACGIH TLV

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges





is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

Hygiene measures: Suitable eye and skin washing facilities should be available in the work area.

### Section 9. Physical and Chemical Properties

Appearance:Paste of various colorsOdor:Fruity ester-likeOdor Threshold:Not availablepH:Not availableMelting/FreezingNot availableBoilingNot available

Point: Point/Range:

Flash Point: Not flammable Evaporation Not available

Rate:

Flammability: (Solid, Not applicable Flammability LEL: Not applicable

Gas) Limits: UEL: Not applicable

Vapor Pressure:Not availableVaporNot available

Density:

Relative Density: 1.5 Solubilities: Insoluble in water

Partition Coefficient: Not available Autoignition Not available

(N-Octanol/Water) Temperature:

**Decomposition** Not available **Viscosity**: Not available

Temperature:

### Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.

**Chemical Stability:** Stable under normal storage and handling conditions. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid heat. Heat can cause polymerization with rapid release of energy. **Incompatible Materials:** Oxidizing materials, reducing materials, amines, and peroxides.

Hazardous decomposition products: None if stored normally.

### **Section 11. Toxicological Information**

#### **Potential Health Effects:**

Inhalation: None known.

Skin Contact: Causes skin irritation.

**Eve Contact:** Causes serious eye irritation.

**Ingestion:** None known.

Chronic Hazards: Exposure to Dibutyl phthalate may cause reproductive harm.



**Skin corrosion/irritation:** This product is not expected to cause skin irritation or corrosion.

**Eye damage/ irritation:** This product is not expected to cause eye irritation or corrosion.

Skin Sensitization: Product is categorized in Grade I (weak sensitizer) in Kligman test.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory sensitization.

Germ Cell Mutagenicity: None of the components have shown mutagenic activity in animal studies.

**Carcinogen:** None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity (Single Exposure):** Single exposure to 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate may cause respiratory tract irritation.

Specific Target Organ Toxicity (Repeated Exposure): No data available.

Aspiration Toxicity: Not an aspiration hazard.

## **Acute Toxicity Values:**

Product ATE: 42399.4 mg/kg (Oral)

(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate: LD50 Oral rat: >5000 mg/kg

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate:

LD50 Oral rat: >5000 mg/kg

Dibutyl phthalate: LD50 Oral rat: 7499 mg/kg; LD50 Dermal rabbit: >25000 mg/kg;

LC50 Inhalation rat: 4250 mg/m<sup>3</sup>

2,2'-[(4-methylphenyl)imino]bisethanol: LD50 Oral rat: 970 mg/kg

3-trimethoxysilylpropyl methacrylate: LD50 Oral rat: 23504 mg/kg; LD50 Dermal rat: >2000 mg/kg

Dibenzoyl peroxide: LD50 Oral rat: 6400 mg/kg

## **Section 12. Ecological Information**

#### Toxicity:

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate: 72 hr EC50 Desmodesmus subspicatus 0.6 mg/L; 48 hr EC50 Daphnia magna- 1.2 mg/L Dibutyl phthalate: 96 hr LC50 Lepomis macrochirus 480  $\mu$ g/L; 96 hr EC50 Algae 3.4  $\mu$ g/L; 48 hr EC50 Daphnia magna 2990  $\mu$ g/L

This product is classified as toxic to the aquatic environment. Releases to the environment should be avoided.

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

#### **Bioaccumulative Potential:**

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate: log  $P_{ow}$  3, potential for bioaccumulative is low.



Dibutyl phthalate has a BCF of 165.96, log  $P_{ow}$  4.46, potential for bioaccumulative is low. 2,2'-[(4-methylphenyl)imino]bisethanol: log  $P_{ow}$  1.09, potential for bioaccumulative is low. 3-trimethoxysilylpropyl methacrylate: log  $P_{ow}$  2.1, potential for bioaccumulative is low. Dibenzoyl peroxide: log  $P_{ow}$  3.2, potential for bioaccumulative is low.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

## **Section 13. Disposal Considerations**

**Disposal:** For unused product, dispose of in accordance with Federal and local regulations. **Container Disposal:** Dispose of empty container in accordance with Federal and local regulations.

## **Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate). Marine pollutant (Dibutyl phthalate) RQ (Dibutyl phthalate)	9	III	Yes
EU ADR/RID	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)	9	III	Yes
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate). Marine pollutant (Dibutyl phthalate)	9	III	Yes
IATA/ICAO	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)	9	III	Yes

Special Precautions for User: None identified

**Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

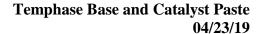
# **Section 15. Regulatory Information**

### **U.S. Federal Regulations:**

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Dibutyl phthalate 84-74-2 1-5%





**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

## **International Inventories**

**US EPA TSCA Inventory**: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

Canada CEPA: All of the components of this material are listed on the DSL or exempt.

#### Section 16. Other Information

Effective Date: April 23, 2019 Supersedes Date: May 15, 2015

Revision Summary: All Sections - New SDS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.