

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Temp-Bond® Clear™ Base

Product Use: Dental temporary cement

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: August 8, 2019

Section 2. Hazards Identification

GHS Classification:

Eye Irritation Category 2A

Skin Irritation Category 2

Skin Sensitization Category 1

Toxic to Reproduction Category 1B

Label Elements:

Danger!



Hazard Phrases

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May damage fertility or the unborn child by ingestion.

Precautionary Phrases:

Obtain special instructions before use.

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

Avoid breathing dust.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves and eye protection.

IF exposed or concerned: Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash before reuse.

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
Dibutyl phthalate	84-74-2	5-10%
Hydroxyethylmethacrylate	868-77-9	5-10%
Fumed silica	68909-20-6	1-5%
N-(2-Pyridyl)thiourea	14294-11-2	1-5%
Ethylidimethylaminobenzoate	10287-53-3	0.5-1.5%
Triclosan	3380-34-5	0.5-1.5%

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Flush skin thoroughly with water for several minutes. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Eye Contact: Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

Most important symptoms and effects, acute and delayed: May cause moderate eye and skin irritation. May cause skin sensitization. Inhalation of dust from dried product or vapors may cause irritation of the mucous membranes and upper respiratory tract. This product contains ingredients that may cause reproductive harm and irreversible genetic defects.

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 oxides of carbon and nitrogen; 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. Contain water used in firefighting from entering sewers or natural waterways.

Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Avoid breathing dust from dried product or vapors.

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

Methods and Materials for Containment and Cleaning up: Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid 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. Avoid breathing dust or vapors. 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 container tightly closed and sealed until ready to 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
Dibutyl phthalate	5 mg/m ³ TWA ACGIH TLV
Hydroxyethylmethacrylate	None Established
Fumed silica	10 mg/m ³ TWA ACGIH TLV (as inhalable dust) 3 mg/m ³ TWA ACGIH TLV (as respirable dust)
N-(2-Pyridyl)thiourea	None Established
Ethylidimethylaminobenzoate	None Established
Triclosan	None Established

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

Respiratory Protection: In operations where exposure levels are exceeded, an approved dust/mist respirator or supplied air respirator should be used. Equipment selection depends on contaminant type

and concentration. Select in accordance with applicable regulations and good industrial hygiene practice.

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 colors	Odor:	Fruity ester-like
Odor Threshold:	Not available	pH:	Not available
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not available
Flash Point:	Not available	Evaporation Rate:	Not available
Flammability: (Solid, Gas)	Not applicable	Flammability Limits:	LEL: Not applicable UEL: Not applicable
Vapor Pressure:	Not available	Vapor Density:	Not available
Relative Density:	~2.5	Solubilities:	Insoluble in water
Partition Coefficient: (N-Octanol/Water)	Not available	Autoignition Temperature:	Not available
Decomposition Temperature:	Not available	Viscosity:	Not available

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: Keep away from flames, heat, and direct sunlight.

Incompatible Materials: Oxidizing materials, reducing materials, peroxide, amines.

Hazardous decomposition products: Thermal decomposition will produce oxides of carbon and nitrogen; and metal oxides.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: Inhalation of dust from dried product or vapors may cause nose, throat and upper respiratory tract.

Skin Contact: Direct contact may cause moderate skin irritation. May cause an allergic skin reaction.

Eye Contact: Direct contact may cause moderate eye irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Hazards: None expected.

Skin corrosion/irritation: This product is expected to cause skin irritation.

Eye damage/ irritation: This product is expected to cause eye irritation.

Skin Sensitization: This product is expected to cause skin sensitization.

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: This product is classified as a reproductive hazard based on the Dibutyl phthalate.

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

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

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:

Dibutyl phthalate: LD50 Oral rat: 8000 mg/kg; LC50 Inhalation rat: 4250 mg/m³;

LD50 Dermal rabbit: >20860 mg/kg

Hydroxyethylmethacrylate: LD50 Oral rat: 5564 mg/kg; LD50 Dermal rabbit: >3000 mg/kg

Fumed silica: LD50 Oral rat: >5000 mg/kg; LC50 Inhalation rat: >0.139 mg/L/4hr (no mortality);

LD50 Dermal rat: >5000 mg/kg

N-(2-Pyridyl)thiourea: LD50 Oral: 100 mg/kg (point estimate)

Ethyldimethylaminobenzoate: LD50 Oral rat: <4000 mg/kg; LD50 Dermal rat: >2000 mg/kg

Triclosan: LD50 Oral rat: 3700 mg/kg; LD50 Dermal rat: 9300 mg/kg

Section 12. Ecological Information

Toxicity:

Dibutyl phthalate: 96 hr LC50 Pimephales promelas 0.85 mg/L; 48 hr LC50 Daphnia magna 3.7 mg/L

Fumed silica: 96 hr LC50 Brachydanio rerio: >10000 mg/L; 24 hr EC50 Daphnia magna: >10000 mg/L

Ethyldimethylaminobenzoate: 96 hr LC50 Rainbow trout: 1.9 mg/L;

48 hr EC50 Daphnia magna: 4.5 mg/L

Triclosan: 96 hr LC50 Oncorhynchus mykiss: 0.288 mg/L; 48 hr Daphnia magna 0.39 mg/L

This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and degradability: Ethyldimethylaminobenzoate: Not readily biodegradable - 40% in 28 days.

Bioaccumulative Potential: Dibutyl phthalate has a BCF of 165.96; log P_{ow} 4.46; 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)	9	III	Yes
Canada TDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)	9	III	Yes
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (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

5-10%

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.

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.

Canadian Regulations:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

National Pollutant Release Inventory (NPRI): This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None.

International Inventories

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

Section 16. Other Information

NFPA Rating: Fire: 0

Health: 3

Instability: 0

Effective Date: August 8, 2019

Supersedes Date: February 7, 2019

Revision Summary: Sections 2, 3, 8 – Updated classification, composition, exposure limits.
Section 9, 10 – Updated physical information and added ingredients to avoid.
Sections 11, 12, 14, 15 - Updated toxicological and ecological information, transport information, and regulatory information.

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