

KERR

Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.Ch.)

Revision Date: 15th September 2009

SECTION 1

Product & Company identification

1.1 Product name

TEMP BOND CLEAR with Triclosan, BASE

1.2 Uses/Application:

Resin based dental temporary cement.

1.3 Company (Name, address and info phone number)

Kerr Corporation

1717 West Collins Avenue

92867 Orange – CALIFORNIA (U.S.A.)

00-800-41-050-505

1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: safety@kerrhawe.com

SECTION 2

Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

Toxic for reproduction; Irritating; Sensitizing.

2.2 Other hazard

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3

Composition/Information on Ingredients

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

3.1 Hazardous ingredients

HAZARDOUS INGREDIENTS	%	HAZARD SYMBOLS	RISK PHRASES	CAS N.	EINECS N.
HydroxyEthylMethAcrylate (HEMA)	5-7	Xi	36/38-43	868-77-9	212-782-2
Dibutyl Phtalate (DBP)	5-7	T; N	61-50-62	84-74-2	201-557-4
Triclosan	< 1,2	Xi; N	36/38-50/53	3380-34-5	222-182-2
Tripropylene Glycol Diacrylate (TRPGDA)	2-6	Xi; N	36/37/38-43-51/53	42978-66-5	256-032-2

3.2 Other non-hazardous ingredients

Inert fillers and stabilizers.

SECTION 4**First aid measures**

4.1 Treatment for eye contact: Flush with water for 15 minutes including under eyelids.

4.2 Treatment for skin contact: Wash thoroughly with soap and water.

4.3 Treatment for inhalation (breathing): Remove to fresh air-get medical attention if discomfort persists.

4.4 Treatment for ingestion (swallowing): Rinse mouth out with water—do not introduce vomiting. Seek medical attention.

SECTION 5**Fire-fighting Measures**

5.1 Suitable extinguishing media: Chemical foam, CO₂, dry chemical.

5.2 Forbidden extinguishing media: Unknown.

5.3 Special fire fighting measures: None. Wear self-contained breathing apparatus.

5.4 Unusual fire and explosion hazards: Heat can cause polymerization with rapid release of energy.

5.5 Special protection equipment: Sealed overall against liquids and gases.

SECTION 6**Accidental Release Measures**

6.1 Personal Precautions: Adopt the same precautions of section 8.

6.2 Environmental Precautions: Keep spilled material out of sewers. Avoid release to the environment

6.3 Reclaiming Methods: Absorb spills with inert material. Keep spilled material out of sewers

SECTION 7**Handling and Storage** (according to article 5 of communitarian directive 98/24/EC)

7.1 Handling Precautions: Keep away from heat, light and ignition sources.

7.2 Precautions in case of Fire and Explosion: None particular.

7.3 Storage Conditions: Store in a cool, dry place away from heat, light and ignition sources.

7.4 Suggested container(s): The original containers provided by manufacturer.

7.5 Indication for Combined Storage: Avoid the contact with reducing and oxidizing agents, peroxides and amines.

7.6 Environmental precautions: Avoid contamination of sewers with product.

7.7 Other Precautions: Use according to directions and good personal hygiene and safety practices.

SECTION 8**Exposure controls/personal protection**

8.1 Exposure Limits:	<u>TWA/TLV</u> : 5 mg/m ³ (DBP)
8.2 Exposure control measures	
8.2.1 Precautionary Measures: (according to communitarian directives 89/686/EEC & article 4 of 98/24/EC)	
Ventilation:	<u>Local Exhaust Ventilation</u> : Good general ventilation should be sufficient to control airborne levels of vapours released by uncured material. <u>Special Ventilation</u> : None required. <u>Mechanical (General) Ventilation</u> : Good general ventilation recommended. <u>Other Ventilation</u> : None required.
Respiratory Protection:	Avoid prolonged or excessive breathing of vapours of uncured material.
Hands Protection:	Impervious rubber gloves recommended when contacting uncured material.
Eyes Protection:	Safety glasses are recommended.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to uncured material.
Other Protective Equipments:	It would be better use a lab coat.
<i>Measures listed in this paragraph are to be considered as indications and NOT as prescriptions (89/656/EEC)</i>	
8.2.2 Environment exposure control measures	
Not Applicable.	

SECTION 9**Physical and Chemical Properties**

9.1 General information	
<u>Appearance</u> : Pigmented paste.	<u>Odour</u> : Fruity ester-like odour.
9.2 Information related to health, safety and environment	
<u>pH</u> : Not applicable (N/A) <u>Boiling point</u> : Not applicable <u>Flash point</u> : Not applicable <u>Flammability</u> : Not applicable. <u>Lower Explosivity Limit (L.E.L.)</u> : N/A <u>Upper Explosivity Limit (U.E.L.)</u> : N/A <u>Oxidizing properties</u> : None <u>Vapour pressure</u> : Not applicable	<u>Relative density</u> : Not available <u>Specific gravity</u> : 2,5 g/ml <u>Solubility</u> : Insoluble <u>Partition coefficient n-octanol/water</u> : N/A <u>Viscosity</u> : Not applicable <u>Vapor density (air = 1)</u> : N/A <u>Evaporation rate (n-butane = 1)</u> : Not applicable <u>Melting point</u> : Not determined
9.3 Other information (according to communitarian directive 94/9/EC):	
<u>Miscibility</u> : N/D.	<u>Conducibility</u> : N/D
<u>Solubility in Lipids</u> : Not available	<u>Gases Group</u> : N/A

SECTION 10**Stability and Reactivity**

Stability: Stable if stored as directed.

10.1 Conditions to avoid: Heat, light, aging and contamination.

10.2 Materials to avoid (incompatibility): Reducing and oxidizing agents, peroxides and amines.

10.3 Hazardous decomposition products: Carbon Oxides.

Other precautions:

Hazardous Polymerization Products: Not determined

Safety significance in case of change in physical appearance: None known

Stabilizers: Product is stabilized with non-hazardous stabilizers.

SECTION 11**Toxicological Information**

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

Toxic for reproduction.

Effects and hazards of eye contact: May cause irritation and damage if not removed promptly.

Effects and hazards of skin contact: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.

Effects and hazards of Inhalation (Breathing): Prolonged or excessive inhalation may cause respiratory tract irritation.

Effects and hazards of Ingestion (Swallowing): Uncured material may be harmful if swallowed in large amounts.

Effects for prolonged Exposure: May cause sensitization by skin contact.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

DBP	LD ₅₀ (acute oral rat)	8000 mg/Kg
	LD ₅₀ (dermal rabbit)	>20ml/Kg
	Eye irritation human	Slight
	TD _{Lo} (acute oral CNS man)	140mg/Kg
	Feeding study	Rats were fed a diet containing phtalate for 4 months which showed slower weight gain, body/organ ratio showed small testes and increased liver weights with all other studies giving normal results. The relevance of these findings to humans is uncertain.

HEMA	LD ₅₀ (oral rat)	> 5000 mg/Kg
	LD ₅₀ (skin rabbit)	> 3000 mg/Kg
	LC ₅₀ (inhalation rat/3 weeks)	> 0,5 mg/Kg

SECTION 12**Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available

12.4 Bioaccumulative potential: Not available

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

Aquatic toxicity data for ingredients:

HEMA Easily biodegradable: 84% (OCSE 301D, closed bottle test, 28 days)	LC ₅₀ (Fish, Oryzias Latipes)	> 100 mg/l (OCSE 203, 96h)
	LC ₅₀ (Fish, Oryzias Latipes)	> 100 mg/l (OCSE 204, 14 days)
	NOEC (Daphnia magna)	24,1 mg/l (OCSE 202/2, 21 days)
	EC ₅₀ (Daphnia magna)	380 mg/l (OCSE 202/1, 48h)
	EC ₅₀ (Selenastrum Copricornutum)	345 mg/l (OCSE 201, 72h)
	EC ₅₀ (Pseudomonas fluorescens)	> 3000 mg/l (DEV LB, 16h)
DBP	LC ₅₀ / 96 hours (daphnia):	1-10 mg/l
	LC ₅₀ / 96 hours (fishes):	1,2 mg/l

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

SECTION 14**Transport information**14.1 Sea transportation (IMDG)

The product is not regulated.

14.2 Air transportation (ICAO/IATA)

The product is not regulated.

14.3 Transportation by Road/Railway (RID/ADR)

The product is not regulated.

SECTION 15 (Classification according to communitarian directives 67/548/EEC & 99/45/EC)**Regulatory information**

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

SECTION 16**Other information**16.1 Risk phrases of all ingredients

- 36/37/38 Irritating to eyes, respiratory system and skin.
- 43 May cause sensitisation by skin.
- 50 Very toxic to aquatic organisms.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- 61 May cause harm to the unborn child.
- 62 Possible risk of impaired fertility.

16.1.1 Safety phrases of all ingredients

- 15 Keep away from heat.
- 24 Avoid contact with skin
- 37 Wear suitable gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 49 Keep only in the original container.
- 61 Avoid release to the environment. Refer to special instructions / safety data sheets

16.2 Sources of key data used to compile the Safety Data Sheet:

European Chemicals Bureau (ECB – www.ecb.jrc.it)

European chemical Substances Information System (ESIS - www.ecb.jrc.it/esis)

A.C.G.I.H. (www.acgih.org)

N.I.O.S.H. (www.cdc.gov/niosh/)

O.S.H.A. (www.osha.gov/)

U.E. (www.europa.eu/index_it.htm)

I.A.R.C. (www.iarc.fr/)

N.T.P. (www.ntp.niehs.nih.gov)

European Community Directives:

67/548/EEC:	Classification, packaging and labelling of dangerous substances.
99/45/EC:	Directive concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
2001/58/EC:	Second amendment of directive 91/155/EEC for the definition of a detailed arrangement of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and substances (art. 27 of 67/548/EEC).
89/656/EEC:	Directive on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
89/686/EEC:	Approximation of the laws of the Member States relating to personal protective equipment.
94/9/EC:	Approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres
98/24/EC:	Protection of the health and safety of workers from the risks related to chemical agents at work.

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CAUTION: PRODUCT FOR PROFESSIONAL USE

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