

MATERIAL SAFETY DATA SHEET

OPTIBOND DUAL CURE PASTE

Bonding Agent

1- IDENTIFICATION

Manufacturer: Kerr Corporation
Address: 1717 West Collins Avenue
City, State, Zip: Orange, CA 92867-5422
Telephone: 1-800-KERR-123
Emergency: Chemtrec 1-800-424-9300
Date Prepared: March 3, 2005

2- COMPOSITION INFORMATION

Hazardous Ingredients

	<u>CAS #</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Uncured Methacrylate Ester Monomers	N/A	N/A	N/A	20-25
Triethylene Glycol Dimethacrylate	109-16-0	N/A	N/A	5-10

Other Ingredients

Inert glass filler, pigment and stabilizers

3- PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/D
Specific Gravity (H₂O = 1): 2.0
Vapor Pressure (mm Hg): N/D
Vapor Density (AIR = 1): N/D
Evaporate Rate: N/D
Solubility in Water: Insoluble
Reactivity in Water: N/A
Appearance and Odor: White Paste with fruity ester-like odor.

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/D
Flammable Limits: LEL: N/D UEL: N/D
Extinguishing Media: Chemical foam, CO₂, dry chemical
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Heat can cause polymerization with rapid release of energy.

5 - REACTIVITY DATA

Stability: Stable if stored as directed
Conditions to Avoid: Heat, light, aging and contamination.
Incompatibility (Material to Avoid): Reducing and oxidizing agents peroxides and amines.
Hazardous Decomposition Products: Oxides of carbon
Hazardous Polymerization: Will not occur with clinically used amounts.

6 - HEALTH HAZARD DATA

Routes of Entry:

Skin: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.
Eyes: May cause irritation and damage if not removed promptly.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion: Uncured material may be harmful or fatal if swallowed.
Carcinogenicity - NTP: No
IARC Monographs: No OSHA Regulated Carcinogen: No

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash thoroughly with soap and water.
Eyes: Flush with water for 15 minutes including under eyelids.
Inhalation: Remove to fresh air. Get medical attention if discomfort persists.
Ingestion: Rinse mouth out with water. Do not induce vomiting. Seek medical attention.

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Absorb spills with inert material-keep spilled material out of sewers.
Waste Disposal Method: Unpolymerized (uncured) material may be RCRA hazardous waste. Incinerate uncured material in accordance with all Federal, State and local regulations.
Precautions to be taken in handling and storing: Store in a cool, dry place away from heat, light and ignition sources.

9 - CONTROL MEASURES

Respiratory Protection (Specify Type): Avoid prolonged or excessive breathing of vapors of uncured material.
VENTILATION:
Local Exhaust: Good general ventilation should be sufficient to control airborne levels of vapors released by uncured material.
Mechanical (General): Usually sufficient
Protective Gloves: Impervious rubber gloves recommended when contacting uncured material.
Eye Protection: Safety glasses recommended
Other Protective Clothing or Equipment: N/A
Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to uncured material.

10 - TRANSPORTATION INFORMATION

Not DOT regulated.

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H2 F1 R1 PPE-Gloves and safety glasses. Hazard information relates only to uncured material.
[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;
2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

Note: Hazard information contained on this MSDS form relates only to material in its uncured state. Thorough biocompatibility and toxicity testing of the cured material and its extracts have demonstrated that the material is non-toxic.