

MATERIAL SAFETY DATA SHEET

OPTIBOND SOLO PLUS

Single Component Dental Adhesive

1 - IDENTIFICATION

Manufacturer: Kerr Corporation
Address: 1717 West Collins Avenue
City, State, Zip: Orange, CA 92867-5422
Telephone: 1-800-KERR-123
24-Hour Emergency: Chemtrec 1-800-424-9300
Date Reviewed: April 17, 2006

2 - COMPOSITION INFORMATION

Hazardous Ingredients

	<u>CAS #</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Ethyl alcohol	64-17-5	1000 ppm	1000 ppm	20-25

Other Ingredients

Alkyl dimethacrylate resins				55-60
Barium aluminoborosilicate glass				5-10
Fumed silica (silicon dioxide)				5-10
Sodium hexafluorosilicate				0.5-1

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/E
Specific Gravity (H₂O = 1): ~ 1.25
Vapor Pressure (mm Hg): N/E
Vapor Density (AIR = 1): N/E
Solubility in Water: Partial for uncured material.
Appearance and Odor: Pale yellow paste with a fruity odor

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 64 °F/18 °C (Ethanol)
Flammable Limits: LEL: N/E UEL: N/E
Extinguishing Media: CO₂ and dry chemical foam
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

5 - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sparks and open flame
Incompatibility (Material to Avoid): Strong oxidizing agents
Hazardous Decomposition Byproducts: Carbon monoxide, carbon dioxide
Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

Routes of Entry:
Skin: May cause mild irritation.
Eyes: May cause mild irritation.
Inhalation: May cause irritation of the throat.
Ingestion: May be poisonous by ingestion.
Carcinogenicity - NTP: No
IARC Monographs: No OSHA Regulated Carcinogen: No

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash skin thoroughly with soap and water. Use hand cream.
Eyes: Flush with water for 15 minutes. If irritation persists, seek medical attention.
Inhalation: Remove to fresh air. If irritation persists, seek medical attention.
Ingestion: Do not give liquids if person is unconscious. Seek medical attention.

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Dilute with water, wipe up with cloth and transfer to a suitable container for disposal.
Waste Disposal Method: Material should not be allowed to drain to sewers. Incinerate liquid in proper equipment. Dispose of in accordance with federal, state and local regulations.
Precautions to be taken in handling and storing: Store in a cool, dry place away from ignition sources.

9 - CONTROL MEASURES

Respiratory Protection: Not needed
VENTILATION:
Local Exhaust: Recommended to keep exposure under 1000 ppm.
Mechanical (General): Usually sufficient
Protective Gloves: Impervious gloves recommended
Eye Protection: Safety glasses with side shield
Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to material.

10 - TRANSPORTATION INFORMATION

Regulated: DOT, IATA and IMO
Proper Shipping Name: Ethanol Solution
Hazard Class: 3
Identification Number: UN 1170
Packing Group: II
Label: Flammable Liquid
Note: See 49 CFR 173.4

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H0 F3 R0
[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard;
2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

Note: Hazard information contained on this MSDS 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.