

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** OptiBond Solo Plus Activator  
**Product Use:** Dental Bonding Agent

**Manufacturer:** Kerr Corporation  
1717 W. Collins Ave.  
Orange, CA 92867-5422  
U.S.A.

**Information Phone Number:** 1-800-KERR-123

**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:** 03/13/19

### Section 2. Hazards Identification

**GHS / HAZCOM 2012 Classification:**

Flammable Liquid Category 2  
Skin Irritation Category 2  
Skin Sensitization Category 1  
Eye Irritation Category 2A

**Warning!**



**Hazard Phrases**

Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

**Prevention:**

Keep away from heat, sparks, and open flames. – No smoking.  
Keep container tightly closed.  
Use only non-sparking tools.  
Avoid breathing mist, vapors, or spray.  
Wash exposed skin thoroughly after handling.  
Wear protective gloves and eye protection.  
Contaminated work clothing should not be allowed out of the workplace.

**Response:**

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or 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.  
**In case of fire:** Use water fog, alcohol foam carbon dioxide or dry chemical to extinguish.

**Storage:**  
Store in a well-ventilated place. Keep cool

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

**Other hazards:** None

**Section 3. Composition/In-formation on Ingredients**

Component	CAS No.	Amount
Non-hazardous Ingredients	Mixture	Balance
Ethanol	64-17-5	30-60%
Bisphenol A Diglycidyl Methacrylate	1565-94-2	30-60%
2-Hydroxyethyl methacrylate	868-77-9	10-30%

**Section 4. First Aid Measures**

**Inhalation:** Move to fresh air if symptoms occur and seek medical attention if symptoms persist.

**Skin Contact:** Take off contaminated clothing. Rinse skin with plenty of water. Get medical attention if irritation develops and persists.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for several minutes. Remove contact lenses, if present, then continue rinsing. Get medical attention if irritation persists.

**Ingestion:** If swallowed, rinse mouth with water. If symptoms develop, get medical attention.

**Most Important symptoms and effects, both acute and delayed:** Causes moderate to severe eye irritation. Skin contact may cause irritation. May cause allergic skin reaction (sensitization.) Ingestion may cause may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** This product is highly flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce oxides of carbon and acrylates.

**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.

**Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Remove all sources of ignition. Avoid breathing vapors or mists. Ventilate area with explosion proof equipment. Wear appropriate protective clothing as described in Section 8.

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

**Methods and Materials for Containment and Cleaning up:** Wipe up material and place in appropriate, labeled container for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Avoid contact with eyes, skin and clothing. Wear appropriate eye protection when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Keep containers closed when not in use. Do not reuse empty containers.

Empty containers retain product residues and may be hazardous. Do not flame cut, drill, weld, etc. on or near empty containers, even empty.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in accordance with regulations for the storage of flammable liquids. Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials.

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

**Exposure Limits**

Chemical	Exposure Limit
Non-hazardous Ingredients	None Established
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV
Bisphenol A Diglycidyl Methacrylate	None Established
2-Hydroxyethyl methacrylate	None Established

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure. Use explosion proof electrical equipment and wiring where required.

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with a respirable dust cartridge or supplied air respirator 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 such as butyl rubber or nitrile are recommended for operations which may result in prolonged or repeated skin contact.

**Eye Protection:** Splash proof goggles or safety glasses are recommended if eye contact is possible.

**Skin Protection:** Wear protective clothing if needed to avoid prolonged/ repeated skin contact. Contaminated clothing should be removed and laundered before re-use.

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

**Other:** None required under normal conditions of use.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	White Paste	<b>Odor:</b>	Acrylate
<b>Odor Threshold:</b>	Not determined	<b>pH:</b>	Not applicable
<b>Melting/Freezing Point:</b>	Not determined	<b>Boiling Point/Range:</b>	Not determined
<b>Flash Point:</b>	55.4°F (13°C) (ethanol)	<b>Evaporation Rate:</b>	Not determined
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not applicable UEL: Not applicable
<b>Vapor Pressure:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>Relative Density:</b>	Not determined	<b>Solubilities:</b>	Not soluble
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not determined	<b>Autoignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined	<b>Viscosity:</b>	Not determined

## Section 10. Stability and Reactivity

**Reactivity:** Not reactive at ambient temperatures.

**Chemical Stability:** Stable.

**Possibility of Hazardous Reactions:** Not reactive.

**Conditions to avoid:** Highly flammable liquid. Keep product away from heat, sparks, flames and all other sources of ignition.

**Incompatible Materials:** Strong oxidizing agents, acids and strong reducing agents.

**Hazardous decomposition products:** Thermal decomposition will produce carbon monoxide, carbon dioxide, and acrylates.

## Section 11. Toxicological Information

**Potential Health Effects:**

**Inhalation:** May cause slight irritation of the nose, throat and upper respiratory tract.

**Skin Contact:** Prolonged or repeated exposure may cause irritation. Individuals with a pre-existing sensitivity to acrylates may have an allergic reaction to this material. Allergic skin reaction may result in itching, redness, and hives.

**Eye Contact:** Direct contact may cause serious eye irritation. Eye damage is not expected.

**Ingestion:** Ingestion may cause gastrointestinal disturbances and central nervous system effects such as headache, dizziness, drowsiness and nausea.

**Chronic Hazards:** No chronic effects are known. Product is negative in mutagenicity tests in animals.

**Medical Conditions Aggravated By Exposure:** None currently known.

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

**Acute Toxicity Values for Components:**  
Product is not acutely toxic.

**Section 12. Ecological Information**

**Toxicity:** No toxicity data available for product.

Ethanol: 96 hr LC50 Pimephales promelas 13.8 mg/L, , 48 hr EC50 daphnia magna 12340 mg/L, 72 hr EC50 Selenastrum capricornutum 12900 mg/L

**Persistence and degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** None known

**Section 13. Disposal Considerations**

**Solution Disposal:** Discharge residual and unused solutions in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with hospital policy.

**Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>US DOT</b>	UN1170	Ethanol Mixture	3	II	None
<b>EU ADR/RID</b>	UN1170	Ethanol Mixture	3	II	None
<b>IMDG</b>	UN1170	Ethanol Mixture	3	II	None
<b>IATA/ICAO</b>	UN1170	Ethanol Mixture	3	II	None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None identified

## 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):**

None

**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.

## Section 16. Other Information

**Effective Date:** March 13, 2019

**Supersedes Date:** New SDS

**Revision Summary:** New SDS

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.