

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Optibond XTR Adhesive

Manufacturer: Kerr Corporation

SDS Expiry: 18 February 2025

Supplier Details: Henry Schein New Zealand  
243-249 Bush Road, Rosedale, Auckland, 0632  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –  
0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 3 / 6

HSNO Group Standard: Dental Products Flammable Group Standard 2020 HSR002556

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – August 2024

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** OptiBond XTR Adhesive  
**Product Use:** Dental product: Bonding agent

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

Australian Supplier: **Kerr Australia Pty Limited**  
Unit 10, 112-118 Talavera Road  
North Ryde, NSW 2113  
Australia  
Telephone no.: 1 800 643 603  
Email general queries: [kavokerr.orders@kavokerr.com](mailto:kavokerr.orders@kavokerr.com)  
Email technical queries: [safety@kavokerr.com](mailto:safety@kavokerr.com)

**Information Phone Number:** 1-800-KERR-123 (in the US)

**Emergency Phone Number:** Poisons Information Helpline: 131126 (24 hours)

**SDS Date of Preparation/Revision:** March 2, 2020

### Section 2. Hazards Identification

**GHS Classification:**

Flammable Liquids Category 2  
Skin Irritation Category 2  
Eye Irritation Category 2A  
Skin Sensitization Category 1  
Specific Target Organ Toxicity Single Exposure Category 3  
Specific Target Organ Toxicity Repeated Exposure Category 1

**Label Elements:**

**Danger!**



Hazard Phrases

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Phrases

- P210 Keep away from open flames, sparks, heat, hot surfaces. – No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting and all material-handling equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe vapors.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333 + P313 If skin irritation or a rash occurs: Get medical attention.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P403 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents and container in accordance with local and national regulations.

**Section 3. Composition/Information on Ingredients**

Component	CAS No.	Amount
Ethanol	64-17-5	10-30%
2-hydroxyethyl methacrylate	868-77-9	10-30%
Glass, oxide, chemicals	65997-17-3	<10%
Amorphous silica	112945-52-5	<10%
2-hydroxy-1,3-propanediyl bismethacrylate	1830-78-0	1-5%
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	1-5%
Disodium hexafluorosilicate	16893-85-9	0.1-1%
Toluene	108-88-3	0.1-1%

**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:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most Important symptoms and effects, both acute and delayed:** Causes serious eye irritation and skin irritation. May cause an allergic skin reaction. Inhalation may cause drowsiness, dizziness, and respiratory irritation. Ingestion and inhalation can cause central nervous system depression.

**Indication of immediate medical attention and special treatment, if needed:** None required under normal conditions of use.

## Section 5. Fire Fighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, halogenated compounds, 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. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

## Section 6: Accidental Release Measures

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Do not breathe dust or vapors.

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

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** Prevent 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. Do not breathe vapor. 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 in the original container or an approved alternative made from a compatible material, kept tightly closed when not in 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
Ethanol	1000 ppm TWA NIOSH REL
2-hydroxyethyl methacrylate	None Established
Glass, oxide, chemicals	10 mg/m <sup>3</sup> TWA ACGIH TLV (respirable)
Amorphous silica	2 mg/m <sup>3</sup> TWA AU (respirable) 4 mg/m <sup>3</sup> TWA AU MAK (inhalable fraction)
2-hydroxy-1,3-propanediyl bismethacrylate	None Established
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	None Established
Disodium hexafluorosilicate	2.5 mg/m <sup>3</sup> TWA ACGIH TLV
Toluene	50 ppm TWA AU

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

**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:** 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 wash and washing facilities should be available in the work area.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Light yellow paste	<b>Odor:</b>	Fruity ester-like
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	Not available
<b>Flash Point:</b>	18°C (64.4°F) (Ethanol)	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not applicable UEL: Not applicable
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	1.2	<b>Solubilities:</b>	Partially soluble in water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition</b>	Not available	<b>Viscosity:</b>	Not available

Temperature:

## 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:** Avoid all possible sources of ignition (spark or flame).

**Incompatible Materials:** Oxidizing materials.

**Hazardous decomposition products:** None if stored normally.

## Section 11. Toxicological Information

**Potential Health Effects:**

**Inhalation:** Can cause central nervous system depression. May cause drowsiness, dizziness, and respiratory irritation.

**Skin Contact:** Causes skin irritation and may cause an allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Swallowing can cause central nervous system depression.

**Chronic Hazards:** Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

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

**Skin Sensitization:** No adverse effects expected. Components are not sensitizers.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory sensitization.

**Germ Cell Mutagenicity:** This product is not expected to cause mutagenicity.

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

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

**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:**

Ethanol: LD50 Oral rat: 10470 mg/kg; LC50 Inhalation rat: 124.7 mg/L/4 hr  
 2-hydroxyethyl methacrylate: LD50 Oral rat: >5000 mg/kg; LD50 Dermal rabbit: >5000 mg/kg  
 Amorphous silica: LD50 Oral rat: >5000 mg/kg; LD50 Dermal rabbit: >2000 mg/kg  
 Disodium hexafluorosilicate: LD50 Oral rat: 125 mg/kg  
 Toluene: LD50 Oral rat: 636 mg/kg; LD50 Dermal rat 12124 mg/kg; LD50 Dermal rabbit: 8390 mg/kg;  
 LC50 Inhalation rat: 12.5 mg/L/4 hr

**Section 12. Ecological Information**

**Toxicity:**

Ethanol: 96 hr LC50 Pimephales promelas 15300 mg/L; 72 hr EC50 Chlorella vulgaris 275 mg/L; 48 hr LC50 Ceriodaphnia dubia 5012 mg/L  
 2-hydroxyethyl methacrylate: 96 hr LC50 Oryzias latipes >100 mg/L; 72 hr EC50 Selenastrum capricornutum 836 mg/L; 48 hr EC50 Daphnia magna 380 mg/L  
 Amorphous silica: 96 hr LC50 Brachydanio rerio >10000 mg/L  
 Disodium hexafluorosilicate: 96 hr LC50 Poecilia reticulata 65 mg/L  
 Toluene: 96 hr EC50 Pseudokirchneriella subcapitata 433 mg/L; 72 hr EC50 Pseudokirchneriella subcapitata 12.5 mg/L; 48 hr EC50 Daphnia magna 11.5 mg/L

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:**

Ethanol: log P<sub>ow</sub> -0.35, potential for bioaccumulative is low.  
 2-hydroxyethyl methacrylate: log P<sub>ow</sub> 0.42, potential for bioaccumulative is low.  
 Propylidynetrimethanol, ethoxylated, esters with acrylic acid: log P<sub>ow</sub> 2.89, potential for bioaccumulative is low.  
 Toluene: log P<sub>ow</sub> 2.73, potential for bioaccumulative is low.

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

**Other Adverse Effects:** No data available.

**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:** Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with Federal and local regulations.

**Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>ADG</b>	UN1170	Ethanol solution	3	II	None
<b>IMDG</b>	UN1170	Ethanol solution	3	II	None
<b>IATA/ICAO</b>	UN1170	Ethanol solution	3	II	None

**Special Precautions for User:** None identified

**Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

**Hazchem Code:** Not applicable.

## Section 15. Regulatory Information

**Montreal Protocol (Ozone Depleting Substances):** None present

**The Stockholm Convention (Persistent Organic Pollutants):** None present

**The Rotterdam Convention (Prior Informed Consent):** None present

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):** None present

**Australian AICS:** Not determined.

## Section 16. Other Information

**Effective Date:** March 2, 2020

**Supersedes Date:** April 2, 2015

**Revision Summary:** All Sections - New SDS format

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.