

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074297081

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071065523

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

074290904 074297065 074297073 074297099 074298907 074298964

# Material Safety Data Sheet

## OPTIBOND XTR PRIMER

### SECTION 1

#### Product & Company identification

Product name

**OPTIBOND XTR PRIMER**

Uses/Application:

Dental adhesive.

Manufacturer:

**KERR CORPORATION**

1717 West Collins Avenue, Orange, CA 92867-5422

Telephone: 1-800-KERR-123

24- Hour Emergency phone

**Chemtrec 1-800-424-9300**

Date Prepared: July 2010

Date Revised: N/A

### SECTION 2

#### Hazard identification

##### 2.1 Hazard classification

Highly flammable; Sensitizing; Irritating.

##### 2.2 Other hazard

Uncured material may be harmful if swallowed.

### SECTION 3

#### Composition/Information on Ingredients

##### 3.1 Hazardous ingredients

HAZARDOUS INGREDIENTS	CAS N.	PEL	TLV	%
Acetone	67-64-1	750 ppm	500 ppm	25-35
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	4-15
HydroxyEthylMethAcrylate (HEMA)	868-77-9	N/A	N/A	30-50

##### 3.2 Other non-hazardous ingredients

None.

**SECTION 4****First aid measures**

- 4.1 Treatment for eye contact: Flush with water for 15 minutes. If irritation persists, seek medical attention.
- 4.2 Treatment for skin contact: Wash skin thoroughly with soap and water. Use hand cream.
- 4.3 Treatment for inhalation (breathing): Remove to fresh air. If irritation persists, seek medical attention.
- 4.4 Treatment for ingestion (swallowing): Do not give liquids if person is unconscious. Seek medical attention.

**SECTION 5****Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Carbon dioxide and dry chemical foam.
- 5.2 Forbidden extinguishing media: Unknown.
- 5.3 Special fire fighting measures: None. Wear self-contained breathing apparatus and full protective gear.
- 5.4 Unusual fire and explosion hazards: Heat can cause polymerization of the product and formation of hazardous vapours.
- 5.5 Special protection equipment: Sealed overall against liquids and gases.

**SECTION 6****Accidental Release Measures**

- 6.1 Personal Precautions: Adopt the same precautions listed in section 8.
- 6.2 Environmental Precautions: Keep spilled material out of sewers.
- 6.3 Reclaiming Methods: Dilute with water, wipe up with cloth and transfer to suitable container for disposal. Dispose of in accordance with local regulations.

**SECTION 7****Handling and Storage**

- 7.1 Handling Precautions: Handle away from sources of ignition. Adopt precautions listed in section 8.
- 7.2 Precautions in case of Fire and Explosion: Extinguish all ignition sources.
- 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 contact with strong oxidizing agents.
- 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:**TWA/TLV : 1000 ppm (Ethanol); 500 ppm (Acetone);**8.2 Exposure control measures****8.2.1 Precautionary Measures:**

Ventilation:	<u>Local Exhaust Ventilation</u> : Sufficient to keep vapours under exposure limits. <u>Special Ventilation</u> : None required. <u>Mechanical (General) Ventilation</u> : Good general ventilation recommended. <u>Other Ventilation</u> : None required.
Respiratory Protection:	Avoid breathing of vapours of the material. In case of high vapours concentration, use a mask with a filter against organic vapours.
Hands Protection:	Nitrile or Vinyl gloves are sufficient for short contact and for small quantity handling. Otherwise, impervious rubber or PVA gloves are recommended.
Eyes Protection:	Safety glasses may be used.
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.

*Measures listed in this paragraph are to be considered as indications and NOT prescriptions***8.2.2 Environment exposure control measures**

Not Applicable.

**SECTION 9****Physical and Chemical Properties****9.1 General information**Appearance: Pale yellow liquid.Odour: Fruity odour.**9.2 Information related to health, safety and environment**

<u>pH</u> : 1,6	<u>Relative density</u> : N/E
<u>Boiling point</u> : N/E	<u>Specific gravity</u> : 1,0 g/ml
<u>Flash point</u> : 13°C	<u>Solubility</u> : Uncured material is partially soluble.
<u>Flammability</u> : Flammable.	<u>Partition coefficient n-octanol/water</u> : N/E
<u>Lower Explosivity Limit (L.E.L.)</u> : N/E	<u>Viscosity</u> : N/E
<u>Upper Explosivity Limit (U.E.L.)</u> : N/E	<u>Vapor density (air = 1)</u> : N/E
<u>Oxidizing properties</u> : None	<u>Evaporation rate (n-butane = 1)</u> : N/E
<u>Vapour pressure</u> : N/E	<u>Melting point</u> : N/E

**9.3 Other information**

<u>Miscibility</u> : Not available	<u>Conducibility</u> : Not available
<u>Solubility in Lipids</u> : Not available	<u>Gases Group</u> : Not applicable

**SECTION 10****Stability and Reactivity**

Stability: Stable if stored as directed.

10.1 Conditions to avoid: Heat, sparks and open flame.

10.2 Materials to avoid (incompatibility): Strong oxidizing agents.

10.3 Hazardous decomposition products: Carbon Oxides.

Other precautions:

Hazardous Polymerization Products: Not determined

Safety significance in case of change in physical appearance: Unknown

Stabilizers: The product is stabilized with non-hazardous polymerization inhibitors.

**SECTION 11****Toxicological Information**

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

None.

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

Effects and hazards of skin contact: Irritating. May cause sensitization in sensitive individuals.

Effects and hazards of Inhalation (Breathing): May cause irritation to the throat and respiratory tract.

Effects and hazards of Ingestion (Swallowing): May cause severe irritation to the digestive tract, abdominal pain, nausea. Uncured material may be harmful if swallowed.

Effects for prolonged Exposure: Not applicable.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

<b>HEMA</b>	LD <sub>50</sub> (oral rat)	> 5000 mg/Kg
	LD <sub>50</sub> (skin rabbit)	> 3000 mg/Kg
	LC <sub>50</sub> (inhalation rat/3 weeks)	> 0,5 mg/Kg
<b>ACETONE</b>	LD <sub>50</sub> (oral rat)	5800 mg/Kg
	LD <sub>50</sub> (skin rabbit)	20000 mg/Kg
	LC <sub>50</sub> (inhalation rat/4 hours)	150 mg/l

<b>Ethyl Alcohol</b>	LC <sub>50</sub> (inhalation mouse/4hrs)	39g/m <sup>3</sup>
	LC <sub>50</sub> (inhalation rat/10hrs)	20000ppm
	LD <sub>L0</sub> (intraperitoneal dog)	3000mg/Kg
	LD <sub>50</sub> (intraperitoneal guinea pig)	3414mg/Kg
	LD <sub>50</sub> (intraperitoneal hamster)	5068mg/Kg
	LD <sub>50</sub> (intraperitoneal mammal)	4300mg/Kg
	LD <sub>50</sub> (intraperitoneal mouse)	933mg/Kg
	LD <sub>50</sub> (intraperitoneal rat)	3750mg/Kg
	LD <sub>50</sub> (intraperitoneal rabbit)	963mg/Kg
	LD <sub>L0</sub> (intravenous cat)	3945mg/Kg
	LD <sub>L0</sub> (intravenous chicken)	8216mg/Kg
	LD <sub>L0</sub> (intravenous dog)	1600mg/Kg
	LD <sub>50</sub> (intravenous mouse)	1973mg/Kg
	LD <sub>50</sub> (intravenous rat)	1440mg/Kg
	LD <sub>50</sub> (intravenous rabbit)	2374mg/Kg
	LD <sub>L0</sub> (oral cat)	6000mg/Kg
	LD <sub>L0</sub> (oral child)	2000mg/Kg
	LD <sub>L0</sub> (oral dog)	5500mg/Kg
	LD <sub>50</sub> (oral guinea pig)	5560mg/Kg
	LD <sub>L0</sub> (oral human)	1400mg/Kg
	TD <sub>L0</sub> (oral man)	700mg/Kg
	TD <sub>L0</sub> (oral man)	50mg/Kg
	TD <sub>L0</sub> (oral man)	1430mg/Kg
	LD <sub>50</sub> (oral mouse)	7500mg/Kg
	LD <sub>50</sub> (oral rat)	7060 mg/Kg
	LD <sub>50</sub> (oral rabbit)	6300mg/Kg
	TD <sub>L0</sub> (oral woman)	6300mg/Kg
	LD <sub>L0</sub> (subcutaneous chicken)	5g/Kg
	LD <sub>L0</sub> (subcutaneous dog)	6000mg/Kg
	LD <sub>L0</sub> (subcutaneous frog)	7100mg/Kg
	LD <sub>L0</sub> (subcutaneous infant)	19440mg/Kg
	LD <sub>L0</sub> (subcutaneous mouse)	4g/Kg
	LD <sub>L0</sub> (subcutaneous pigeon)	5g/Kg
	LD <sub>L0</sub> (skin rabbit)	20g/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:

**KERR****Material Safety Data Sheet for: OPTIBOND XTR PRIMER**

<b>HEMA</b> Easily biodegradable: 84% (OCSE 301D, closed bottle test, 28 days)	LC <sub>50</sub> ( <i>Fish, Oryzias Latipes</i> )	> 100 mg/l (OCSE 203, 96h)
	LC <sub>50</sub> ( <i>Fish, Oryzias Latipes</i> )	> 100 mg/l (OCSE 204, 14 days)
	NOEC ( <i>Daphnia magna</i> )	24,1 mg/l (OCSE 202/2, 21 days)
	EC <sub>50</sub> ( <i>Daphnia magna</i> )	380 mg/l (OCSE 202/1, 48h)
<b>Ethanol</b>	EC <sub>50</sub> ( <i>Selenastrum Copricornutum</i> )	345 mg/l (OCSE 201, 72h)
	EC <sub>50</sub> ( <i>Pseudomonas fluorescens</i> )	> 3000 mg/l (DEV LB, 16h)
	LC <sub>50</sub> ( <i>Oncorhynchus mykiss</i> ):	10400-13000 mg/l (96hrs)
	LC <sub>50</sub> ( <i>Pimephales promelas</i> ):	15300 mg/l (96hrs)
	LC <sub>50</sub> (Other fishes):	10000 mg/l (24hrs)
	LC <sub>50</sub> ( <i>Daphnia magna</i> ):	9,3 mg/l (48hrs)

**SECTION 13****Disposal considerations**

Dispose of in accordance with local regulations.

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

UN number: 1993      Class: 3      Packing group: II      EMS-No: F-E, S-E  
Stowage/segregation: Category B;      Limited Quantity: 1 Lt  
Proper shipping name: Flammable liquid, n.o.s.

14.2 Air transportation (ICAO/IATA)

UN number: 1993      Class: 3      Packing group: II      Label: 3  
Maximum quantities: 5 Lt (Passenger Aircraft);      60 Lt (Cargo Aircraft only)  
Limited Quantity: 1 Lt      Proper shipping name: Flammable liquid, n.o.s. (Acetone, Ethyl Alcohol)

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1993      Class: 3      Packing group: II      Label: 3  
Limited Quantity: LQ4 (3 Lt/30 Kg for combined, 1 Lt/20 Kg for bandaged trays).  
Proper shipping name: Flammable liquid, n.o.s.

**SECTION 15****Other information**15.1 Hazardous Materials Identification System.

HMIS (Hazardous Material Identification System) Rating:

H2 F4 R0

[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard;

2 – Moderate Hazard;      1 – Slight Hazard; 0 – Minimum Hazard]

**15.2 Sources of key data used to compile the Safety Data Sheet:**A.C.G.I.H. ([www.acgih.org](http://www.acgih.org))N.I.O.S.H. ([www.cdc.gov/niosh/](http://www.cdc.gov/niosh/))O.S.H.A. ([www.osha.gov/](http://www.osha.gov/))U.E. ([www.europa.eu/index\\_it.htm](http://www.europa.eu/index_it.htm))I.A.R.C. ([www.iarc.fr/](http://www.iarc.fr/))N.T.P. ([www.ntp.niehs.nih.gov](http://www.ntp.niehs.nih.gov))European Chemicals Bureau (ECB – [www.ecb.jrc.it](http://www.ecb.jrc.it))European chemical Substances Information System (ESIS - [www.ecb.jrc.it/esis](http://www.ecb.jrc.it/esis))**CAUTION: PRODUCT FOR PROFESSIONAL USE**

This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate. The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility. This document does not constitute explicit or implicit warranty of product quality or fitness for a particular purpose.



## 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.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**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:** February 13, 2019

### 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

Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
May cause drowsiness and dizziness.  
Causes damage to organs through prolonged or repeated exposure.

#### Precautionary Phrases:

Keep away from open flames, sparks, heat, hot surfaces. – No smoking.  
Use explosion-proof electrical/ventilating/lighting and all material-handling equipment.  
Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe vapors.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical attention.

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.

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 advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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%
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%

### Section 4. First Aid Measures

**Inhalation:** Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

**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, 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 any media appropriate for the 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 vapors.

**Environmental Precautions:** Avoid releases 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 vapors. 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
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
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**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 particulate cartridges 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 are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**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 and skin 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 available UEL: Not available
<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 Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

## 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 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:** None of the components have shown mutagenic activity in animal studies.

**Carcinogen:**

Ethanol is listed as "Carcinogenic to Humans" (Group 1) by IARC.

Disodium hexafluorosilicate is listed as "The Agent is not Classifiable as to its Carcinogenicity to Humans" (Group 3) by IARC.

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

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

**Specific Target Organ Toxicity (Single Exposure):** Single exposure to ethanol, 2-hydroxyethyl methacrylate, and 2-hydroxy-1,3-propanediyl bismethacrylate can cause respiratory tract irritation. Single exposure to ethanol can also cause narcotic effects.

**Specific Target Organ Toxicity (Repeated Exposure):** Repeated exposure to ethanol may cause damage of the liver. Repeated exposure to disodium hexafluorosilicate can cause damage of the bones and teeth.

**Aspiration Toxicity:** Not an aspiration hazard.

**Acute Toxicity Values:**

Product ATE: 169.3 mg/L (Inhalation as vapors), 16930.5 mg/kg (Dermal), 4561.9 mg/kg (Oral)

Ethanol: LD50 Oral rat: 7060 mg/kg; LC50 Inhalation rat: 124.7 mg/L/4 hr

2-hydroxyethyl methacrylate: LD50 Oral rat: 4230 mg/kg

Propylidynetrimethanol, ethoxylated, esters with acrylic acid: LD50 Dermal rabbit: >13 g/kg

Disodium hexafluorosilicate: LD50 Oral rat: 125 mg/kg

**Section 12. Ecological Information****Toxicity:**

Ethanol: 96 hr EC50 Ulva pertusa 17.921 mg/L; 48 hr EC50 Daphnia magna- 2000 µg/L;

48 hr LC50 Crustaceans 25.5 mg/L; 96 hr LC50 Oncorhynchus mykiss >10000 µg/L  
2-hydroxyethyl methacrylate: 96 hr LC50 Pimephales promelas 227 mg/L

**Persistence and degradability:** Product is readily biodegradable.

**Bioaccumulative Potential:**

Ethanol: log  $P_{ow}$  -0.35, potential for bioaccumulative is low.

2-hydroxyethyl methacrylate: log  $P_{ow}$  0.42, potential for bioaccumulative is low.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid: log  $P_{ow}$  2.89, potential for bioaccumulative is low.

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

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

### Section 13. Disposal Considerations

**Disposal:** For unused product, dispose of in accordance with Federal and local regulations.

**Container Disposal:** Dispose of empty container in accordance with Federal and local regulations.

### Section 14. Transport Information

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

**Special Precautions for User:** None identified

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

### 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.

**Canada CEPA:** All of the components of this material are listed on the DSL or exempt.

<b>Section 16. Other Information</b>
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**Effective Date:** February 13, 2019

**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.