# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 070371773

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).

070371765 070371781 070371799 070371807 070371815 070371823 070371831 070371849 070371856 070371864 070371872 070371880



**SAFETY DATA SHEET** 

Herculite Ultra Flowable

# Section 1. Identification

GHS product identifier	: Herculite Ultra Flowable
Other means of identification	: Not available.
Product type	: Solid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Dental product
Area of application	: Professional applications.
Manufacturer	: Kerr Corporation 1717 West Collins Avenue, Orange, CA 92867-5422 Telephone no.: 1-800-KERR-123
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 93.8%

**GHS label elements** 

Hazard pictograms



Signal word	: Warning
Hazard statements	<ul> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> </ul>
Precautionary statements	

Prevention : Wear protective gloves. Wear eye or face protection. Use only outdoors or in a wellventilated area. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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# Section 2. Hazards identification

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical 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.Storage: Store locked up.Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.Supplemental label elements: Avoid contact with skin and clothing. Wash thoroughly after handling.Hazards not otherwise classified: Prolonged or repeated contact may dry skin and cause irritation.		
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# Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of	÷	Not available.
identification		

# **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	Other names	%	CAS number
Poly(oxy-1,2-ethanediyl), α,α'-[(1- methylethylidene)di-4,1-phenylene]bis[ω-[(2- methyl-1-oxo-2-propen-1-yl)oxy]-	Not available.	10 - 30	41637-38-1
2,2'-ethylenedioxydiethyl dimethacrylate	2,2'-ethylenedioxydiethyl dimethacrylate	1 - 5	109-16-0
3-trimethoxysilylpropyl methacrylate	3-trimethoxysilylpropyl methacrylate	1 - 5	2530-85-0
(1-methylethylidene)bis[4,1-phenyleneoxy (2-hydroxy-3,1-propanediyl)] bismethacrylate	(1-methylethylidene)bis[4, 1-phenyleneoxy(2-hydroxy- 3,1-propanediyl)] bismethacrylate	1 - 5	1565-94-2
Silicon dioxide	silicon dioxide	1 - 5	7631-86-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

# Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact	: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

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ssue : No

Section 4. First a	id measures
Ingestion	: Large quantity: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/	
Potential acute health effe	
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Irritating to mouth, throat and stomach.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
In the set of the set of the set of the	
	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically.
Specific treatments Protection of first-aiders	: No specific treatment.
FIOLECTION OF HEST-alderS	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: No speci	ic fire or explosion hazard.			
Unsuitable extinguishing media	: Do not us	se water jet.			
Suitable extinguishing media	: Use an e	xtinguishing agent suitable f	or the surrounding fire.		
Extinguishing media					

# Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special protective actions for fire-fighters	In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely.
For emergency responders	: Low release. See also the information in "For non-emergency personnel".
Environmental precautions	: Low release . Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

# **Precautions for safe handling**

	- L	
Protective measures	:	Small Quantity. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any	:	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store and use away from heat, sparks, open flame or any other ignition source.

incompatibilities

# Section 8. Exposure controls/personal protection

# **Control parameters**

# **Occupational exposure limits**

Exposure limits
NIOSH REL (United States, 4/2013). TWA: 6 mg/m <sup>3</sup> 10 hours.

# controls

Appropriate engineering : No special ventilation requirements.

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# Section 8. Exposure controls/personal protection

Environmental exposure :	Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures :	No special measures are required.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection :	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection :	A respirator is not needed under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

Appearance							
Physical state	1	Solid. [Paste	.]				
Color	1	Not available	9.				
Odor	1	Odorless.					
Odor threshold	:	Not available	9.				
рН	1	Not applicab	le.				
Melting point	1	Not applicab	le.				
Boiling point	1	Not applicab	le.				
Flash point	1	Not available	9.				
Evaporation rate	1	Not applicab	le.				
Flammability (solid, gas)	:	Not available	9.				
Lower and upper explosive (flammable) limits	:	Not available	9.				
Vapor pressure	1	Not available	9.				
Vapor density	1	Not applicab	le				
Relative density	1	2 g/mL					
Solubility	1	Insoluble in t	the following materials	: cold water and hot wate	er.		
Solubility in water	1	Not available	9.				
Partition coefficient: n- octanol/water	:	Not available	9.				
Auto-ignition temperature	1	Not available	9.				
Decomposition temperature	1	Not applicab	le.				
SADT	1	Not available	9.				
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# Section 9. Physical and chemical properties

Viscosity : Medium to high

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Teactions	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Keep away from heat.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials and alkalis.
Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products should

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral	Rat	10837 mg/kg	-
3-trimethoxysilylpropyl methacrylate	LD50 Oral	Rat	23504 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-ethylenedioxydiethyl dimethacrylate	Skin - Moderate irritant	Mouse	-	336 hours 25 Percent Intermittent	-
3-trimethoxysilylpropyl methacrylate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Silicon dioxide	Eyes - Mild irritant	Rabbit	-	24 hours 25 milligrams	-

### **Sensitization**

Not available.

## **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Silicon dioxide	-	3	-

# Reproductive toxicity

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# Section 11. Toxicological information

#### Not available.

**Teratogenicity** 

Not available.

#### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Poly(oxy-1,2-ethanediyl), α,α'-[(1-methylethylidene)di-4,1- phenylene]bis[ω-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-	Category 3	Not applicable.	Respiratory tract irritation
2,2'-ethylenedioxydiethyl dimethacrylate	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

<u>.</u>....

Information on the likely	: Routes of entry anticipated: Dermal, Inhalation.
routes of exposure	

### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

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Not available.					
	6013				
Potential chronic health eff	octe				
Potential delayed effects	: Not availa	ble.			
Potential immediate effects	: Not availa	ble.			
<u>Long term exposure</u>					
Potential delayed effects	: Not availa	ble.			
Potential immediate effects	: Not availa	ble.			
<u>Short term exposure</u>					

# Section 11. Toxicological information

General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or lermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	Onc	
Carcinogenicity	lo known significant effects or critical hazards.	signif	
Mutagenicity	lo known significant effects or critical hazards.	signif	
Teratogenicity	lo known significant effects or critical hazards.	signif	
<b>Developmental effects</b>	lo known significant effects or critical hazards.	signif	
Fertility effects	lo known significant effects or critical hazards.	signif	

# Numerical measures of toxicity

Acute toxicity estimates				
Route	ATE value			
Oral	12314.1 mg/kg			

# Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Silicon dioxide	Acute EC50 55.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 4.6 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Poly(oxy-1,2-ethanediyl), α,α'- [(1-methylethylidene)di-4,1- phenylene]bis[ω-[(2-methyl-1- oxo-2-propen-1-yl)oxy]-		-	high
2,2'-ethylenedioxydiethyl dimethacrylate	1.88	-	low
3-trimethoxysilylpropyl methacrylate	2.1	-	low

Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

Other adverse effects

: No known significant effects or critical hazards.

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# Section 13. Disposal considerations

**Disposal methods** 

: This material and its container must be disposed of in a safe way.

# Section 14. Transport information

	DOT Classification	IMDG	IATA		
UN number	Not regulated.	Not regulated.	Not regulated.		
UN proper shipping name	-	-	-		
Transport hazard class(es)	-	-	-		
Packing group	-	-	-		
Environmental hazards	No.	No.	No.		
Additional information	-	-	-		

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) oxybenzone	PAIR: Siloxanes and Silic	cones, di-Me, reaction pro	oducts with silica;	
	United Sta	tes inventory (TSCA 8b	: Not determined.		
	hexafluoroa	er Act (CWA) 307: dipher antimonate; Sulfonium, (tl antimonate(1-) (1:2)			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
<u>SARA 302/304</u>					
Composition/information	<u>on ingredients</u>				
No products were found.					
SARA 304 RQ	: Not applica	ble.			
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# Section 15. Regulatory information

### SARA 311/312

Classification

: Immediate (acute) health hazard

### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Poly(oxy-1,2-ethanediyl), α,α'-[(1- methylethylidene)di-4,1-phenylene]bis[ ω-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-	10 - 30	No.	No.	No.	Yes.	No.
2,2'-ethylenedioxydiethyl dimethacrylate	1 - 5	Yes.	No.	No.	Yes.	No.
3-trimethoxysilylpropyl methacrylate	1 - 5	No.	No.	No.	Yes.	No.
(1-methylethylidene)bis[4, 1-phenyleneoxy(2-hydroxy-3, 1-propanediyl)] bismethacrylate	1 - 5	No.	No.	No.	Yes.	No.
Silicon dioxide	1 - 5	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Silicic acid, aluminum barium salt	60195-38-2	10 - 30
Supplier notification	Silicic acid, aluminum barium salt	60195-38-2	10 - 30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations Massachusetts

: The following components are listed: AMORPHOUS SILICA

Ne	W	Yo	rk

: None of the components are listed.

New Jersey

: The following components are listed: FLUORIDES; BARIUM COMPOUNDS

Pennsylvania : The following components are listed: BARIUM COMPOUNDS; SILICA

### California Prop. 65

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
methanol	No.	Yes.	No.	23000 μg/day (ingestion) 47000 μg/day (inhalation)

# Section 16. Other information

### Hazardous Material Information System (U.S.A.)



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# Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

Date of issue/Date of revision	• *** •
Date of previous issue	: No previous validation
Version	***
Prepared by	: IHS
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of	issue/Date of	revision

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Date of previous issue

: No previous validation



# SAFETY DATA SHEET

### Section 1. Product And Company Identification

Product Name: Herculite Ultra Flowable Product Use: Dental product

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

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

<u>Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):</u> CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: January 16, 2019

### Section 2. Hazards Identification

#### **GHS Classification:**

Skin Irritation Category 2 Serious Eye Irritation Category 2A Specific Target Organ Toxicity Single Exposure Category 3

### Label Elements:

Warning!



Hazard Phrases

Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

### **Precautionary Phrases:**

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

Wear protective gloves/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

If skin irritation 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 or 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 attention. Store locked up. Dispose of contents and container in accordance with local and national regulations.

Component	CAS No.	Amount
Poly(oxy-1,2-ethanediyl), α,α'-[(1- nethylethylidene)di-4,1-phenylene]bis[ω-[(2- nethyl-1-oxo-2-propen-1-yl)oxy]-	41637-38-1	10-30%
ítterbium trifluoride	13760-80-0	5-10%
2'-ethylenedioxydiethyl dimethacrylate	109-16-0	1-10%
-trimethoxysilylpropyl methacrylate	2530-85-0	1-5%
1-methylethylidene)bis[4,1-phenyleneoxy(2- ydroxy-3,1-propanediyl)] bismethacrylate	1565-94-2	1-5%
licon dioxide	7631-86-9	1-5%

### Section 3. Composition/Information on Ingredients

### **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:** May cause respiratory irritation if inhaled. Causes serious eye irritation and skin irritation. If swallowed, may cause irritating to mouth, throat, and stomach.

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, 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.

**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. 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
Poly(oxy-1,2-ethanediyl), α,α'-[(1-	None Established
methylethylidene)di-4,1-phenylene]bis[ω-[(2-	
methyl-1-oxo-2-propen-1-yl)oxy]-	
Ytterbium trifluoride	2.5 mg/m <sup>3</sup> TWA ACGIH TLV
2,2'-ethylenedioxydiethyl dimethacrylate	None Established
3-trimethoxysilylpropyl methacrylate	None Established
(1-methylethylidene)bis[4,1-phenyleneoxy(2-	None Established
hydroxy-3,1-propanediyl)] bismethacrylate	
Silicon dioxide	6 mg/m <sup>3</sup> TWA NIOSH REL

**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				
Appearance:	Paste	Odor:	Odorless	
Odor Threshold:	Not available	pH:	Not available	
Melting/Freezing	Not available	Boiling	Not available	
Point:		Point/Range:		
Flash Point:	Not flammable	Evaporation	Not available	
		Rate:		
Flammability: (Solid,	Not applicable	Flammability	LEL: Not applicable	
Gas)		Limits:	UEL: Not applicable	
Vapor Pressure:	Not available	Vapor	Not available	
		Density:		
Relative Density:	2	Solubilities:	Insoluble in water	
Partition Coefficient:	Not available	Autoignition	Not available	
(N-Octanol/Water)		Temperature:		
Decomposition	Not available	Viscosity:	Medium to high	
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 high temperatures.
Incompatible Materials: Oxidizing materials and alkalis.
Hazardous decomposition products: None if stored normally.

# Section 11. Toxicological Information

### **Potential Health Effects:**

Inhalation: May cause respiratory irritation.
Skin Contact: Causes skin irritation.
Eye Contact: Causes serious eye irritation.
Ingestion: Irritating to mouth, throat and stomach.
Chronic Hazards: None expected.

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:** None of the 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 Poly(oxy-1,2-ethanediyl),  $\alpha$ , $\alpha'$ - [(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- and 2,2'- ethylenedioxydiethyl dimethacrylate may cause respiratory tract irritation.

### Specific Target Organ Toxicity (Repeated Exposure): No data available.

Aspiration Toxicity: Not an aspiration hazard.

### Acute Toxicity Values:

Product ATE: 12314.1 mg/kg (Oral) Poly(oxy-1,2-ethanediyl), α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propen-1yl)oxy]-: LD50 Oral rat: > 2000 mg/kg; LD50 Dermal rat: > 2000 mg/kg 2,2'-ethylenedioxydiethyl dimethacrylate: LD50 Oral rat: 10837 mg/kg 3-trimethoxysilylpropyl methacrylate: LD50 Oral rat: 23504 mg/kg

### Section 12. Ecological Information

#### Toxicity:

Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]-: 96 hr LD50 fish > 100 mg/L; 48 hr EC50 Daphnia magna > 100 mg/L; 72 hr Algae > 100 mg/L Silicon dioxide: 72 hr EC50 Pseudokirchneriella subcapitata 55.5 mg/L

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

### **Bioaccumulative Potential:**

Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- has a BCF of 2372, log P<sub>ow</sub> 3.43 to 5.62, potential of bioaccumulative is high 2,2'-ethylenedioxydiethyl dimethacrylate: log P<sub>ow</sub> 1.88, potential of bioaccumulative is low 3-trimethoxysilylpropyl methacrylate: log P<sub>ow</sub> 2.1, potential of 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	None	Not Regulated			None
EU	None	Not Regulated			None
ADR/RID		-			
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			None

**Special Precautions for User:** Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**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
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#### **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.

#### Section 16. Other Information

Effective Date: January 16, 2019 Supersedes Date: July 18, 2014 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.