

### 1. Identification

**Product name:** SimpliShade Bulk Fill Flow  
**Recommended use:** Intermediate for dental material  
**Restrictions on use:** None known  
**Manufacturer:** Kerr Corporation  
 1717 W. Collins Ave.  
 Orange, CA 92867-5422  
 T 1-800-841-1428  
[safety@kavokerr.com](mailto:safety@kavokerr.com)  
**Emergency number:** (Chemical Spills, Leaks, Fire, Exposure or Accident only):  
 CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)  
**Issue date:** 11/19/2021

### 2. Hazard(s) identification

#### Classification:

Physical hazards	Health hazards
Not classified	Skin sensitization, category 1B Reproductive toxicity Category 1B

#### GHS US labeling:

Danger!



Hazard statements (GHS US)	Precautionary statements (GHS US)
H317 - May cause an allergic skin reaction H360 - May damage fertility or the unborn child if swallowed	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves. P308+P313 - If exposed or concerned: Get medical advice/attention. P302+P352 - If on skin: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Zirconium Silicate	10101-52-7	30 – 60
Di-hema trimethylhexyl dicarbamate	72869-86-4	5 – 15
Ytterbium Trifluoride	13760-80-0	10 – 30
Silicon dioxide	7631-86-9	3 – 7
Silica	112945-52-5	0.5 – 5
Triethylene glycol dimethacrylate	109-16-0	0.5 – 1.5
Ethyl 4-dimethylaminobenzoate	10287-53-3	0.1 – 1
Butylated Hydroxytoluene	128-37-0	0.1 – 1
Oxybenzone	131-57-7	0.1 – 1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### 4. First-aid measures

**Inhalation:** Remove the victim into fresh air. Get medical attention if symptoms occur.

**Skin:** Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Eyes:** Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists.

**Ingestion:** Do NOT induce vomiting. Drink large quantities of water, milk, or several ounces of milk of magnesia. Contact a poison center.

**Symptoms/effects:** May cause sensitization by skin contact. This product may cause reproductive harm and/or developmental effects. Product dust may cause mechanical irritation to the skin and mucous membranes. Prolonged overexposure to fluorides may cause fluorosis with effects on the teeth and bones.

**Immediate medical attention and special treatment, if necessary:** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** None.

**Fire hazard:** This product is not classified as flammable or combustible.

**Special protective equipment and precautions for fire-fighters:** Prevent runoff from entering water courses, sewers and basements. Do not attempt to take action without suitable protective equipment.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Do not breathe dust.

**Methods and material for containment and cleaning up:** Collect spillage. Do not touch or walk on the spilled product. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

## 7. Handling and storage

**Precautions for safe handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands with water and soap. Avoid breathing dust. Ensure adequate ventilation.

**Storage conditions:** Store in dry, cool, well-ventilated area. Protect container from physical damage. Keep containers closed when not in use to prevent moisture loss.

## 8. Exposure controls/personal protection

<b>Exposure guidelines:</b>	
Triethylene glycol dimethacrylate	None established.
Di-hema trimethylhexyl dicarbamate	None established.
Ethyl 4-dimethylaminobenzoate	None established.
Butylated Hydroxytoluene	2 mg/m <sup>3</sup> (IFV - Inhalable fraction and vapor) TWA ACGIH TLV;
Oxybenzone	None established.
Ytterbium Trifluoride	2.5 mg/m <sup>3</sup> TWA OSHA PEL; 2.5 mg/m <sup>3</sup> TWA ACGIH TLV;
Silicon dioxide	20 mppcf TWA OSHA PEL;
Silica	20 mppcf TWA OSHA PEL;
Zirconium Silicate	5 mg/m <sup>3</sup> TWA OSHA PEL; 5 mg/m <sup>3</sup> TWA ACGIH TLV; 10 mg/m <sup>3</sup> STEL ACGIH TLV;

**Appropriate engineering controls:** No particular/specific measures required.

**Environmental exposure controls:** Avoid release to the environment.

### Personal protective equipment:

**Hand protection:** Wear impervious gloves. Consult supplier for specific recommendations.

**Eye protection:** Not required for normal conditions of use. Handling product in bulk: Wear safety goggles or other eye protection to prevent eye contact.

**Skin and body protection:** Wear suitable protective clothing

**Respiratory protection:** In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

## 9. Physical and chemical properties

**Appearance:** Light yellow viscous flowable paste.

<b>Physical state</b>	: Liquid	<b>Freezing point</b>	:
<b>Color</b>	: Light yellow	<b>Boiling point</b>	: No data available
<b>Odor</b>	: Fruity Ester	<b>Flash point</b>	: No data available
<b>Odor threshold</b>	: No data available	<b>Relative</b>	: No data available
<b>pH</b>	: No data available	<b>evaporation rate</b>	
<b>Melting point</b>	: Not applicable	<b>(butyl acetate=1)</b>	

<b>Flammability (solid, gas)</b>	: Not applicable.	<b>Decomposition temperature</b>	: No data available
<b>Vapor pressure</b>	: No data available	<b>Viscosity, kinematic</b>	: No data available
<b>Relative vapor density at 20 °C</b>	: No data available	<b>Viscosity, dynamic</b>	: No data available
<b>Relative density</b>	: No data available	<b>Explosion limits</b>	: No data available
<b>Solubility</b>	: No data available	<b>Explosive properties</b>	: No data available
<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available	<b>Oxidizing properties</b>	: No data available
<b>Auto-ignition temperature</b>	: No data available		

No additional information available

## 10. Stability and reactivity

**Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

**Conditions to avoid:** Keep away from heat and flame. Avoid dust formation.

**Incompatible materials:** Keep away from oxidizers, strong acids and strong bases.

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

## 11. Toxicological information

**Inhalation:** May cause minor irritation to the respiratory tract and to other mucous membranes.

**Skin:** Dust may cause irritation in skin folds or by contact in combination with tight clothing. May cause an allergic skin reaction.

**Eyes:** Direct contact with the eyes is likely to be irritating.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic symptoms:** This product may cause reproductive harm and/or developmental effects. Prolonged absorption of fluorides may result in fluorosis. Symptoms include joint pain, changes in bone density (osteosclerosis), ossification of ligaments, limited mobility, teeth abnormalities and mottling of the dental enamel.

**Carcinogenicity:** Not classified

Triethylene glycol dimethacrylate: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Di-hema trimethylhexyl dicarbamate: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Ethyl 4-dimethylaminobenzoate: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Butylated Hydroxytoluene: IARC 3 - Not classifiable;

Oxybenzone: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Ytterbium Trifluoride: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Silicon dioxide: IARC 3 - Not classifiable;

Silica:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Zirconium Silicate:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
<b>Germ cell mutagenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	May damage fertility or the unborn child if swallowed.
<b>Numerical measures of toxicity:</b>	

**The following are the toxicity values for the components:**

Triethylene glycol dimethacrylate:	Oral rat LD50- 10837 g/kg;
Di-hema trimethylhexyl dicarbamate:	Oral rat LD50- > 5000 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Ethyl 4-dimethylaminobenzoate:	Oral rat LD50- > 2000 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Butylated Hydroxytoluene:	Oral rat LD50- > 2930 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Oxybenzone:	Oral rat LD50- > 12800 mg/kg; Dermal rabbit LD50- > 16000 mg/kg;
Ytterbium Trifluoride:	Oral rat LD50- > 2000 mg/kg;
Silicon dioxide:	No data available
Silica:	Oral rat LD50- 3160 mg/kg;
Zirconium Silicate:	No data available
<b>Skin corrosion/irritation</b>	Not classified
<b>Serious eye damage/irritation</b>	Not classified
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>STOT-single exposure</b>	Not classified
<b>STOT-repeated exposure</b>	Not classified

## 12. Ecological information

**Ecology - general:** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Ecotoxicity:**

Triethylene glycol dimethacrylate	16.4 mg/L Fish LC50
Di-hema trimethylhexyl dicarbamate	10.1 mg/L Fish LC50; 1.2 mg/L Daphnia EC50
Ethyl 4-dimethylaminobenzoate	1.9 mg/L Fish LC50; 4.5 mg/L Daphnia EC50; 2.8 mg/L Algae ErC50
Butylated Hydroxytoluene	0.199 mg/L Fish LC50; 0.48 mg/L Daphnia EC50; 0.758 mg/L Algae ErC50
Oxybenzone	3.8 mg/L Fish LC50; 1.87 mg/L Daphnia EC50; 0.67 mg/L Algae ErC50

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:**

No data available

## 13. Disposal considerations

**Regional legislation (waste):** Dispose of in accordance with applicable federal, state, and local regulations.

**14. Transport information****Department of Transportation (DOT)**

Not regulated for transport

**Transport by sea**

**Proper Shipping Name (IMDG)** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Butylated Hydroxytoluene ; Oxybenzone ; Di-hema trimethylhexyl dicarbamate)

**UN-No. (IMDG)** : 3077

**Class (IMDG)** : 9

**Packing group (IMDG)** : III

**Marine pollutant** : Yes

**Air transport**

**Proper Shipping Name (IATA)** : Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxytoluene ; Oxybenzone ; Di-hema trimethylhexyl dicarbamate)

**UN-No. (IATA)** : 3077

**Class (IATA)** : 9

**Packing group (IATA)** : III

**15. Regulatory information**

**SARA Section 313 - Emission Reporting:** Not subject to reporting requirements of the United States SARA Section 313

**CERCLA Section 103:**

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA 302:**

Not applicable

**SARA Section 311/312 Hazard Classes:** Refer to Section 2 for OSHA Hazard Classification.

**California Proposition 65:****WARNING:**

This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**TSCA:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

**INTERNATIONAL INVENTORIES**

**Australia AICS:** One or more ingredient(s) are not listed

**Canada DSL:** One or more ingredient(s) are not listed

**China IECSC:** All the components are listed.

**EU EINECS:** One or more ingredient(s) are not listed

**Japan ENCS:** One or more ingredient(s) are not listed

**Korea KECL:** One or more ingredient(s) are not listed  
**New Zealand:** All the components are listed.  
**Philippines PICCS:** One or more ingredient(s) are not listed  
**Taiwan CSNN** All the components are listed.

<b>16. Other information</b>
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Revision date : 11/19/2021

**NOTICE**

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.