

SAFETY DATA SHEET

ESTELITE BULK FILL Flow

1. Identification

Product identifier

Product name ESTELITE BULK FILL Flow

Recommended use of the chemical and restrictions on use

Restriction on use Resin-based Dental Restorative Material. For dental professionals only.

Details of the supplier of the safety data sheet

Supplier Tokuyama Dental America, Inc.
740 Garden View CT., Suite 200 Encinitas, CA 92024 U.S.A.
Tel: +1-760-942-7211
Fax: +1-760-942-7212

Contact person <http://www.tokuyama-dental.com/tdc/contact.htm>

Manufacturer Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo
110-0016, Japan
TEL: +81-3-3835-2261
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Emergency telephone number

Emergency telephone Tokuyama Dental America, Inc. Tel: +1-760-942-7211
Days and hours of operation : 9:00-17:00(PST/PDT), Weekdays, except national holidays in US.
Language: English only.

2. Hazard identification

Classification of the substance or mixture

WHMIS Regulatory Status This product has been classified according to the hazard criteria of the Hazardous Product Regulations and the SDS contains all required information.

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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Precautionary statements	<p>P261 Avoid breathing dust.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
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3. Composition/information on ingredients

Mixtures

<p>2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER</p> <p>CAS number: 1565-94-2</p>	10-30%
<p>2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER</p> <p>CAS number: 109-16-0</p>	10-30%
<p>POLY(OXY-1,2-ETHANEDIYL), α,α'-[[1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[ω-[(2-METHYL-1-OXO-2-PROPENYL)OXY]-</p> <p>CAS number: 41637-38-1</p>	5-10%
<p>PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-4-METHYL-</p> <p>CAS number: 2440-22-4</p>	0.1-1%
<p>BICYCLO[2.2.1]HEPTANE-2,3-DIONE, 1,7,7-TRIMETHYL-, (\pm)-</p> <p>CAS number: 10373-78-1</p>	0.1-1%
<p>PHENOL, 4-METHOXY-</p> <p>CAS number: 150-76-5</p>	< 0.1%
<p>TITANIUM DIOXIDE (TiO₂)</p> <p>CAS number: 13463-67-7</p>	< 0.1%

Composition comments All percentages displayed expressed as weight/weight.

4. First-aid measures

Description of first aid measures

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General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	Due to the physical nature of this product, exposure by this route is unlikely.
Ingestion	Try to induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Skin contact	Skin irritation. Allergic rash.
Eye contact	May cause severe eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam. Carbon dioxide or dry powder.
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Specific hazards arising from the hazardous product

Specific hazards	Irritating gases or vapours. Toxic gases or vapours.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours.
Special protective equipment for firefighters	Wear chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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Environmental precautions

Environmental precautions	No specific recommendations.
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Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.
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Reference to other sections

Reference to other sections	For waste disposal, see Section 13.
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7. Handling and storage

Precautions for safe handling

Usage precautions	All handling should only take place in well-ventilated areas.
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Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 0°C/32°F and 25°C/77°F. Keep away from heat, sparks and open flame. Protect from sunlight.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

PHENOL, 4-METHOXY-

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

2,6-DI-t-BUTYL-4-METHYLPHENOL

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor
A4

TITANIUM DIOXIDE (TiO₂)

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³
A4

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Paste
Colour	Yellow-white , Translucent yellow
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable.
Melting point	Not available.
Initial boiling point and range	Not available.

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Flash point	Not applicable.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.65
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
Other information	Not available.

10. Stability and reactivity

Reactivity	Not known. See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not known.
Conditions to avoid	Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Heating may generate the following products: Toxic gases or vapours.

11. Toxicological information

Information on toxicological effects

Routes of exposure	Skin , Eyes , Ingestion , Health effects: See section 4. Inhalation : Titanium dioxide (TiO ₂) is kneaded in the product, it does not exist as respirable particles. Due to the physical nature of this product, exposure by this route is unlikely.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	Not available.
<u>Acute toxicity - dermal</u>	

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Notes (dermal LD₅₀)	Not available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Not available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes skin irritation.
Animal data	Not available.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitization</u>	
Respiratory sensitization	Not available.
<u>Skin sensitization</u>	
Skin sensitization	May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Not available.
Genotoxicity - in vivo	Not available.
<u>Carcinogenicity</u>	
Carcinogenicity	Not available.
IARC carcinogenicity	Some of the ingredients are listed or exempt.
NTP carcinogenicity	Some of the ingredients are listed or exempt.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Not available.
Reproductive toxicity - development	Not available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not available.
<u>Aspiration hazard</u>	
Aspiration hazard	Not available.
<u>Toxicological information on ingredients</u>	

TITANIUM DIOXIDE (TiO₂)

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

12. Ecological Information

Toxicity No data available.

Persistence and degradability

Persistence and degradability No data available.

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Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility No information available.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).

UN number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) Not applicable.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

Special precautions for user

Not applicable.

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

15. Regulatory information

Regulatory References According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR) Hazardous Products Regulations - SOR/2015-17. Transportation of Dangerous Goods Regulations - SOR/2015-100.

16. Other information

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Training advice	There is a specific duty on the importer/user/distributor of the substances and mixtures to ensure that the workers have received appropriate training and refresher training.
Revision comments	This is the first issue.
Revision date	2018-06-20
Revision	1
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such information.