SAFETY DATA SHEET
ESTELITE Σ QUICK

1. Identification

Product identifier

Product name ESTELITE Σ QUICK

Recommended use of the chemical and restrictions on use

Application 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: (877) 378 3548 (Toll-Free)
Tel: (760)942-7211
Fax: (760)942-7212

Contact Person http://www.tokuyama-dental.com/tdc/contact.html

Manufacturer Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo
110-0016, Japan
TEL: +81-3-3835-2261
FAX: +81-3-3835-2265

Emergency telephone number

Emergency telephone California Poison Control System - San Francisco Division
San Francisco General Hospital
Bldg 5 Rm 2A21,1001 Potrero Ave, San Francisco
Emergency telephone number: 1 800 222 1222
E-mail address: coadmin@calpoison.org
http://www.calpoison.org

National Capital Poison Center
3201 New Mexico Ave, Ste 310, Washington DC
Emergency telephone number: 1 800 222 1222
Telephone number: +1 202 362 3867
Facsimile numer: +1 202 362 8377
E-mail address: pc@poison.org
http://www.poison.org

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements
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Pictogram

Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P261 Avoid breathing dust.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with local regulations.

Contains 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER, TRIETHYLENE GLYCOL DIMETHACRYLATE, p-METHOXYPHENOL

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER</td>
<td>10-30%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL DIMETHACRYLATE</td>
<td>5-10%</td>
</tr>
<tr>
<td>2,6-Di-tet-BUTYL-p-CRESOL</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>p-METHOXYPHENOL</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>&lt; 0.1%</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once.

Ingestion Try to induce vomiting. Get medical attention if any discomfort continues.

Skin Contact Wash skin thoroughly with soap and water.
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Eye contact
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Skin contact
Allergic rash.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
No specific recommendations.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Extinguish with the following media: Foam. Carbon dioxide or dry powder.

Special hazards arising from the substance or mixture
Specific hazards
When heated and in case of fire, irritating vapors/gases may be formed.

Hazardous combustion products
No known hazardous decomposition products.

Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapors.

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.

Environmental precautions

Environmental precautions
No specific recommendations.

Methods and material for containment and cleaning up

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

Reference to other sections
For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions
All handling should only take place in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store in a cool and well-ventilated place. Store at temperatures between 0°C/25°F and 32°C/77°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid exposure to high temperatures or direct sunlight.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.
8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

2,6-DI-tert-BUTYL-p-CRESOL

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

p-METHOXYPHENOL

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

TITANIUM DIOXIDE

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

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
OSHA = Occupational Safety and Health Administration.

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.

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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Paste
Color Yellow-white
Odor Not available.
Odor threshold Not available.
pH pH (concentrated solution): 7
Melting point Not available.
Initial boiling point and range Not available.
### 10. Stability and reactivity

**Reactivity**

May polymerize. 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. Protect against direct sunlight.

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Heating may generate the following products: Toxic gases or vapors.

### 11. Toxicological information

**Information on toxicological effects**

**Routes of exposure**

See section 4. Skin, Eyes, Ingestion, Inhalation

**Acute toxicity - oral**

Notes (oral LD₅₀)

Not available.

**Acute toxicity - dermal**

Notes (dermal LD₅₀)

Not available.

**Acute toxicity - inhalation**

Not available.
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Notes (inhalation LC₅₀)  Not available.
Skin corrosion/irritation  Not available.
Animal data  Not available.
Serious eye damage/irritation  Not available.
Respiratory sensitization  Not available.
Skin sensitization  Sensitizing.
Germ cell mutagenicity  Not available.
Genotoxicity - in vitro  Not available.
Genotoxicity - in vivo  Not available.
Carcinogenicity  Based on available data the classification criteria are not met.
IARC carcinogenicity  Some of the ingredients are listed or exempt.
NTP carcinogenicity  Some of the ingredients are listed or exempt.
OSHA Carcinogenicity  None of the ingredients are listed.
Reproductive toxicity  Not available.
Reproductive toxicity - fertility  Not available.
Reproductive toxicity - development  Not available.
Specific target organ toxicity - single exposure  Not available.
STOT - single exposure  Not available.
Specific target organ toxicity - repeated exposure  Not available.
STOT - repeated exposure  Not available.
Aspiration hazard  Not available.

Toxicological information on ingredients.

2,6-DI-tert-BUTYL-p-CRESOL

Carcinogenicity
IARC carcinogenicity  IARC Group 3  Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity  Reasonably anticipated to be a human carcinogen.
OSHA Carcinogenicity  Not listed.

TITANIUM DIOXIDE

Acute toxicity - Inhalation
ATE inhalation  1.5 (dusts/mists mg/l)
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Carcinogenicity

IARC carcinogenicity  IARC Group 2B  Possibly carcinogenic to humans.
NTP carcinogenicity  Reasonably anticipated to be a human carcinogen.
OSHA Carcinogenicity  Not listed.

12. Ecological Information

Toxicity  No data available.
Acute toxicity - fish  Not available.
Acute toxicity - aquatic invertebrates  Not available.
Acute toxicity - aquatic plants  Not available.
Chronic toxicity - fish early life stage  Not available.
Short term toxicity - embryo and sac fry stages  Not available.
Chronic toxicity - aquatic invertebrates  Not available.

Persistence and degradability

Persistence and degradability  No data available.

Bioaccumulative potential

Bio-Accumulative 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, DOT).

UN Number
Not applicable.

UN No. (IMDG)  N/A
UN No. (ICAO)  N/A
UN No. (DOT)  N/A
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**UN proper shipping name**
Not applicable.

**Transport hazard class(es)**
Not applicable.

**IMDG Class**
Not applicable.

**ICAO class/division**
Not applicable.

**Transport labels**
No transport warning sign required.

**Packing group**
Not applicable.

**IMDG packing group**
Not applicable.

**ICAO packing group**
Not applicable.

**Environmental hazards**
Environmentally Hazardous Substance
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**

<table>
<thead>
<tr>
<th>Regulatory Status</th>
<th>This Product is Hazardous under the OSHA Hazard Communication Standard.</th>
</tr>
</thead>
</table>

**US Federal Regulations**

**SARA (311/312) Hazard Categories**
Acute

**US State Regulations**

**California Proposition 65 Carcinogens and Reproductive Toxins**
None of the ingredients are listed

**California Directors List of Hazardous Substances**
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL

**Massachusetts "Right To Know" List**
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE
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Rhode Island "Right To Know" List
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE

Minnesota "Right To Know" List
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE

New Jersey "Right To Know" List
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE

Pennsylvania "Right To Know" List
2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE

16. Other information

Training advice Ensure operatives are trained to minimize exposure. Only trained personnel should use this material.

Revision comments §15. Regulatory information amended

Revision date 4/10/2020

Revision 3

Hazard statements in full H317 May cause an allergic skin reaction.

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.