# SAFETY DATA SHEET
## ESTELITE Σ QUICK

### 1. Identification

**Product identifier**

**Product name** ESTELITE Σ QUICK

**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.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** 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 Sens. 1 - H317

**Environmental hazards** Not Classified

**Label elements**

**Pictogram** ![Warning]

**Signal word** Warning

**Hazard statements** H317 May cause an allergic skin reaction.
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### Precautionary statements

- **P261** Avoid breathing dust.
- **P272** Contaminated work clothing should 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 national regulations.

### 3. Composition/information on ingredients

#### Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIELY]) ESTER</td>
<td>10-30%</td>
<td>1565-94-2</td>
</tr>
<tr>
<td>2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIELY) ESTER</td>
<td>5-10%</td>
<td>109-16-0</td>
</tr>
<tr>
<td>2,6-DI-t-BUTYL-4-METHYLPHENOL</td>
<td>&lt;1%</td>
<td>128-37-0</td>
</tr>
<tr>
<td>PHENOL, 4-METHOXY-</td>
<td>&lt;1%</td>
<td>150-76-5</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>&lt;0.1%</td>
<td>13463-67-7</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.

- **Eye contact**
  Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. 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 any immediate medical attention and special treatment needed

- **Notes for the doctor**
  No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

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

Specific hazards arising from the hazardous product

Specific hazards When heated and in case of fire, irritating vapours/gases may be formed.

Hazardous combustion products No known hazardous decomposition products.

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.

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

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 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

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

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

PHENOL, 4-METHOXY-

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

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.

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

Colour
Yellow-white

Odour
Not available.

Odour threshold
Not available.

pH
pH (concentrated solution): 7

Melting point
Not available.

Initial boiling point and range
Not available.

Flash point
Not available.

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
1.9

Solubility(ies)
Not available.

Partition coefficient
Not available.

Auto-ignition temperature
Not available.
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Decomposition Temperature: Not available.
Viscosity: Not available.
Explosive properties: Not explosive.
Oxidising properties: Not available.
Other information: 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 vapours.

11. Toxicological information

Information on toxicological effects

Routes of exposure: See section 4. Skin, Eyes, Ingestion, Inhalation
Acute toxicity - oral: Not available.
Notes (oral LD₅₀): Not available.
Acute toxicity - dermal: Not available.
Notes (dermal LD₅₀): Not available.
Acute toxicity - inhalation: Not available.
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: Sensitising.
Germ cell mutagenicity - in vitro: Not available.
Genotoxicity - in vitro: Not available.
Genotoxicity - in vivo: Not available.
Carcinogenicity: 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

Reproductive toxicity - fertility
Not available.

Reproductive toxicity - development
Not available.

Specific target organ toxicity - single exposure
STOT - single exposure
Not available.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
Not available.

Aspiration hazard
Aspiration hazard
Not available.

Toxicological information on ingredients

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

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 (dusts/mists mg/l)
1.5

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

Acute aquatic toxicity
Not available.

Acute toxicity - fish
Not available.

Acute toxicity - aquatic invertebrates
Not available.

Acute toxicity - aquatic plants
Not available.

Chronic aquatic toxicity
Not available.

Chronic toxicity - fish early life stage
Not available.
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Short term toxicity - embryo and sac fry stages
Not available.

Chronic toxicity - aquatic invertebrates
Not available.

Ecological information on ingredients

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

Chronic aquatic toxicity
M factor (chronic) 1

Persistence and degradability

Persistence and degradability No data available.

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) No transport warning sign required.

Packing group
Packing group (international) Not applicable.

Environmental hazards
Environmentally hazardous substance/marine pollutant No.

Special precautions for user
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Not applicable.

DOT reportable quantity Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information


16. Other information

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

Revision comments This is first issue.

Revision date 20/03/2018

Revision 1

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 replied 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.