

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

075185798

**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).**

075185756 075185764 075185772 075185780 075185806 075185814 075185822 075185830 075185848 075185855  
075185863 075185871 075185889 075185897 075185905 075185913 075185921 075185939 075216510 075216536  
075216544 075216551 075216569 075216577 075216585 075216593 075216619 075216627 075216635 075216643  
075216650 075216668 075216676 075216684

## MATERIAL SAFETY DATA SHEET

### ESTELITE $\Sigma$ QUICK

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME ESTELITE  $\Sigma$  QUICK

PRODUCT USE Resin-based Dental Restorative Material. For dental professionals only.

SUPPLIER Tokuyama Dental America Inc. MANUFACTURER Tokuyama Dental Corporation  
Tel: (877) 378 3548 (Toll-Free) 38-9, Taitou 1-chome, Taitou-ku,  
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CONTACT PERSON <http://www.tokuyama-dental.com/contact.htm>

EMERGENCY TELEPHONE

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National Capital Poison Center  
3201 New Mexico Avenue, Suite 310 Washington, DC 20016  
Telephone: +1 202 362 3867  
Emergency telephone: 1 800 222 1222  
Fax: +1 202 362 8377  
E-mail: [pc@poison.org](mailto:pc@poison.org)  
Web site: <http://www.poison.org>

San Francisco  
California Poison Control System  
at San Francisco General Hospital  
University California San Francisco, Box 1369  
1001 Potrero Avenue, Bldg 5 Rm 2A21  
San Francisco, California 94143-1369  
Telephone: +1 415 643 3200  
Emergency telephone: 1 800 222 1222  
Fax: +1 415 502 6010  
E-mail: [coadmin@calpoison.org](mailto:coadmin@calpoison.org)  
Web site: <http://www.calpoison.org>

<http://www.who.int/ipcs/poisons/centre/en/>

#### 2 HAZARDS IDENTIFICATION

##### POTENTIAL HEALTH EFFECTS

##### INGESTION

Slightly irritating. DIGESTIVE SYSTEM.

##### SKIN CONTACT

Slightly irritating. May cause sensitization by skin contact.

##### EYE CONTACT

Slightly irritating.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
bisphenol A di(2-hydroxy propoxy) dimethacrylate	216-367-7	1565-94-2	10-30%
camphorquinone	233-814-1	10373-78-1	< 1%
dibutyl hydroxy toluene	204-881-4	128-37-0	< 1%
MEQUINOL	205-769-8	150-76-5	< 1%
triethylene glycol dimethacrylate	203-652-6	109-16-0	5-10%

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**ESTELITE Σ QUICK****INHALATION**

Move the exposed person to fresh air at once.

**INGESTION**

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

**SKIN CONTACT**

Wash the skin immediately with soap and water.

**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. Contact physician if irritation persists.

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**5 FIRE-FIGHTING MEASURES**

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**EXTINGUISHING MEDIA**

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapors.

**SPECIFIC HAZARDS**

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

**PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing.

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**6 ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this material safety data sheet.

**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

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**7 HANDLING AND STORAGE**

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**HANDLING**

All handling to take place in well-ventilated area.

**STORAGE**

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

**STORAGE CLASS**

Chemical storage.

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**PROTECTIVE EQUIPMENT****ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**HAND PROTECTION**

Wear protective gloves.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER 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 & 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.

## ESTELITE Σ QUICK

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE Paste  
 COLOR Yellow white  
 RELATIVE DENSITY 1.9  
 pH-VALUE, CONC. SOLUTION 7

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions and recommended use.

## CONDITIONS TO AVOID

Keep away from heat, sparks and open flame. Protect against direct sunlight.

## MATERIALS TO AVOID

Strong oxidizing agents.

## HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gases are generated when heated.

**11 TOXICOLOGICAL INFORMATION**

## TOXICOLOGICAL INFORMATION

No data on possible toxic effects have been found.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

No data on possible environmental effects have been found.

**13 DISPOSAL CONSIDERATIONS**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**

TRANSPORT NOTES Not regulated.

**15 REGULATORY INFORMATION**

## INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
MEQUINOL	No.	No.	EINECS					

COMPONENT	TSCA 12(b) Export Notification
MEQUINOL	No.

## US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
MEQUINOL	Not Listed	Not Listed	No.

## CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
MEQUINOL	Not Listed

REVISION DATE 15/01/2013

**ESTELITE Σ QUICK****US STATE REGULATIONS**

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
MEQUINOL	150-76-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**REGULATORY REFERENCES**

29 CFR 1910.1200(g) Federal Regulations (OSHA Standard).

**16 OTHER INFORMATION**

REVISION DATE

15/01/2013

**DISCLAIMER**

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.

Revision Date 08/13/2017  
Revision 2

## SAFETY DATA SHEET ESTELITE FLOW QUICK

### 1. IDENTIFICATION

<b>Product Name</b>	ESTELITE FLOW QUICK
<b>Identified uses</b>	Resin-based Dental Restorative Material. For dental professionals only.
<b>Supplier</b>	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
<b>Contact Person</b>	<a href="http://www.tokuyama-dental.com/tdc/contact.html">http://www.tokuyama-dental.com/tdc/contact.html</a>
<b>Manufacturer</b>	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
<b>Emergency Telephone</b>	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: <a href="mailto:coadmin@calpoison.org">coadmin@calpoison.org</a> <a href="http://www.calpoison.org">http://www.calpoison.org</a>  National Capital Poison Center 3201 New Mexico Ave, Ste 310, Washington DC Emergency telephonenumber: 1 800 222 1222 Telephone number: +1 202362 3867 Facsimile number: +1 202 362 8377 E-mailaddress: <a href="mailto:pc@poison.org">pc@poison.org</a> <a href="http://www.poison.org">http://www.poison.org</a>

### 2. HAZARD(S) IDENTIFICATION

<b>Appearance</b>	Paste
<b>Color</b>	Yellow white
<b>Odor</b>	No information available.
<b>GHS Pictogram</b>	



<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	<div>H315 Causes skin irritation.</div> <div>H317 May cause an allergic skin reaction.</div> <div>H319 Causes serious eye irritation.</div>
<b>Precautionary Statements</b>	<div>P280 Wear protective gloves/protective clothing/eye protection/face protection.</div> <div>P302+352 IF ON SKIN: Wash with plenty of soap and water.</div>

## ESTELITE FLOW QUICK

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes.

P501

Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local regulations.

### Contains

bisphenol A polyethoxy dimethacrylate

triethylene glycol dimethacrylate

### GHS Classification

Physical and Chemical Hazards Not classified.

Human health

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317

Environment

Not classified.

### Hazard Not Otherwise Classified (HNOC)

Not applicable.

### OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

### General Information

IF SWALLOWED: Slightly irritating. ( DIGESTIVE SYSTEM. ) This chemical may cause skin/eye irritation. May cause sensitization by skin contact.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

1,6-bis(methacrylethylloxycarbonylamino)trimethylhexane (UDMA)

1-5%

CAS No.: 72869-86-4

EC No.: 276-957-5

GHS Classification

Not classified.

2,2'-(METHYLIMINO)DIETHANOL

&lt; 1%

CAS No.: 105-59-9

EC No.: 203-312-7

GHS Classification

Eye Irrit. 2 - H319

bisphenol A polyethoxy dimethacrylate

10-30%

CAS No.: 41637-38-1

EC No.: 609-946-4

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335

camphorquinone

&lt; 1%

CAS No.: 10373-78-1

EC No.: 233-814-1

GHS Classification

Not classified.

## ESTELITE FLOW QUICK

dibutyl hydroxy toluene		< 1%
CAS No.: 128-37-0	EC No.: 204-881-4	
GHS Classification Aquatic Chronic 1 - H410		

MEQUINOL		< 1%
CAS No.: 150-76-5	EC No.: 205-769-8	
GHS Classification Acute Tox. 4 - H302; Eye Irrit. 2 - H319; Skin Sens. 1 - H317		

triethylene glycol dimethacrylate		5-10%
CAS No.: 109-16-0	EC No.: 203-652-6	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317		

### 4. FIRST-AID MEASURES

#### Description of first aid measures

##### **General Information**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### **Inhalation**

Move the exposed person to fresh air at once.

##### **Ingestion**

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

##### **Skin Contact**

Wash the skin immediately with soap and water.

##### **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. Contact physician if irritation persists.

#### Most important symptoms and effects, both acute and delayed

##### **Ingestion**

Slightly irritating. ( DIGESTIVE SYSTEM. )

##### **Skin Contact**

Slightly irritating. May cause sensitization by skin contact.

##### **Eye Contact**

Slightly Irritating.

#### Indication of any immediate medical attention and special treatment needed

##### **Notes To The Physician**

CAUTION! First aid personnel must be aware of own risk during rescue! Wear suitable protective clothing.

### 5. FIRE-FIGHTING MEASURES

##### **Auto Ignition Temperature (°C)**

Not available.

##### **Flammability Limit - Lower(%)**

Not available.



## ESTELITE FLOW QUICK

### Flammability Limit - Upper(%)

Not available.

### Flash point (°C)

Not available.

### Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

### Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

### Special Fire Fighting Procedures

Avoid breathing fire vapors.

### Protective Equipment For Fire-Fighters

Wear full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

### Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

### Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

### Reference to other sections

For personal protection, see section 8.

## 7. HANDLING AND STORAGE

### Handling

All handling to take place in well-ventilated area.

### Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

### Storage Class

Chemical storage.

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
dibutyl hydroxy toluene	ACGIH		2 mg/m <sup>3</sup>			A4

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

### Protective Equipment



### Engineering Measures

Provide adequate general and local exhaust ventilation.

### Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

### Hand Protection

Wear protective gloves.

### Eye Protection

Wear approved safety goggles.

### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

## ESTELITE FLOW QUICK

### Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Paste

**Color** Yellow white

**Odor** No information available.

**Solubility** No information available.

**Initial boiling point and boiling range**

Not available.

**Melting point (°C)**

Not available.

**Relative density** 1.8

**Vapor density (air=1)**

Not available.

**Vapor pressure**

Not available.

**Evaporation rate**

Not available.

**pH-Value, Conc. Solution** 7

**pH-Value, Diluted Solution**

Not available.

**Viscosity**

Not available.

**Decomposition temperature (°C)**

Not available.

**Odour Threshold, Lower**

Not available.

**Odour Threshold, Upper**

Not available.

**Flash point**

Not available.

**Auto Ignition Temperature (°C)**

Not available.

**Flammability Limit - Lower(%)**

Not available.

**Flammability Limit - Upper(%)**

Not available.

**Partition Coefficient**

(N-Octanol/Water)

Not available.

**Explosive properties**

Not available.

**Other Flammability**

Not available.

**Oxidising properties**

Not available.

### 10. STABILITY AND REACTIVITY

**Reactivity**

May polymerise.

**Stability**

Stable under normal temperature conditions and recommended use.

Hazardous reactions:

Not available.

## ESTELITE FLOW QUICK

### Conditions To Avoid

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### Materials To Avoid

Strong oxidizing agents.

### Hazardous Decomposition Products

Toxic gases are generated when heated.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

Not available.

### Skin Corrosion/Irritation:

Slightly irritating.

### Serious eye damage/irritation:

Slightly Irritating.

### Respiratory or skin sensitisation:

#### Respiratory sensitisation

Not available.

#### Skin sensitisation

May cause sensitization by skin contact.

### Germ cell mutagenicity:

Not available.

### Carcinogenicity:

#### IARC Carcinogenicity

Butylated hydroxytoluene (BHT) : IARC Group 3 Not classifiable as to its carcinogenicity to humans.

#### NTP - Carcinogenicity

Not listed.

#### OSHA - Carcinogenicity

Not listed.

### Reproductive Toxicity:

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:

#### Viscosity

Not available.

## 12. ECOLOGICAL INFORMATION

### Toxicity

No data available.

### Degradability

No data available.

### Bioaccumulative potential

No data available on bioaccumulation.

## ESTELITE FLOW QUICK

### Partition coefficient

Not available.

### Mobility:

No information available.

### Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

### Other adverse effects

Not known.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

## 14. TRANSPORT INFORMATION

**General** Not regulated.

**UN No. (DOT/TDG)** N/A

**UN No. (IMDG)** N/A

**UN No. (ICAO)** N/A

**DOT Proper Shipping Name** Not applicable.

### DOT Hazard Class

No classification noted.

### DOT Hazard Label

No DOT label requirement noted

**IMDG Class** Not applicable.

**ICAO Class** Not applicable.

### Transport Labels

No transport warning sign required.

**DOT Pack Group** Not applicable.

**IMDG Pack Group** Not applicable.

**Air Pack Group** Not applicable.

### 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 Notes

Not applicable.

## 15. REGULATORY INFORMATION

### Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard.

### Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

### US Federal Regulations

#### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

#### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

#### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

#### SARA 313 Emission Reporting

None of the ingredients are listed.

## ESTELITE FLOW QUICK

### CAA Accidental Release Prevention

None of the ingredients are listed.

### SARA (311/312) Hazard Categories

Acute

### OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

#### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

#### Massachusetts "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

#### Rhode Island "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

#### Minnesota "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

#### New Jersey "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

#### Pennsylvania "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

### International Inventories

#### EU - EINECS/ELINCS

The following ingredients are listed.

1, 6-bis(methacrylethoxycarbonylamino)trimethylhexane (UDMA)

2, 2'-(METHYLIMINO)DIETHANOL

camphorquinone

dibutyl hydroxy toluene

MEQUINOL

triethylene glycol dimethacrylate

#### Canada – DSL/NDSL

All ingredients are listed or exempt.

#### US - TSCA

All ingredients are listed or exempt.

#### US – TSCA 12(b) Export Notification

None of the ingredients are listed.

## 16. OTHER INFORMATION

### Revision Comments

#### Revision Date

08/13/2017

#### Revision

2

### Disclaimer

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.