## **SAFETY DATA SHEETS**

# **This SDS packet was issued with item:** 075187216

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).

075185285 075185467 075187018 075187026 075187034 075187042 075187059 075187067 075187075 075187083 075187091 075187109 075187117 075187125 075187133 075187141 075187158 075187166 075187174 075187182 075187190 075187208 075187307 075187604 075187612 075187620 075187638 075187646 075187653 075187661 075187679 075187687 075187695 075187703 075187711 075187729 075187737 075187745 075187752 075187760 075187778 075187786 075187794 075187802 075216510

## MATERIAL SAFETY DATA SHEET ESTELITE FLOW QUICK High Flow

PRODUCT NAME	ESTELITE FLOW QUICK High Flow		
PRODUCT USE	Resin-based Dental Restorative Mate	arial For dontal profession-le	1-
SUPPLIER	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)	MANUFACTURER	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
CONTACT PERSON	http://www.tokuyama-dental.com/con	lact.htm	TEL: +81-3-3835-7201
EMERGENCY TELEPHONE	Washington National Capital Poison Center 3201 New Mexico Avenue, Suite 310 Telephone: +1 202 362 3867 Emergency telephone: 1 800 222 122 Fax: +1 202 362 8377 E-mail: pc@poison.org Web site: http://www.poison.org		
	San Francisco California Poison Control System at San Francisco General Hospital University of California San Francisco. 1001 Potrero Avenue, Bldg 5 Rm 2A2 San Francisco, California 94143-1369 Telephona: +1 415 643 3200 Emergency telephone: 1 800 222 1222 Fax: +1 415 502 6010 E-mail: coadmin@calpoison.org Web site: http://www.calpoison.org	1	

### 2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS INGESTION Slightly imitating. 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	10-30%

#### GENERAL INFORMATION

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

#### ESTELITE FLOW QUICK High Flow

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.

### **5 FIRE-FIGHTING MEASURES**

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.

6 ACCIDENTAL RELEASE MEASURES

#### 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.

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,

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 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 FLOW QUICK High Flow

### 9 PHYSICAL AND CHEMICAL PROPERTIES

ā.,

APPEARANCE	Paste
COLOR	Yellow white
RELATIVE DENSITY	1.8
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		- <u></u> -			
COMPONENT					TSCA 1	2(b) Expo	ort Notifica	ation	
MEQUINOL	<u>11 - 11 - 112 - 1</u> . 182			uintin - i i	No.			·	
US FEDERAL REGULATIONS				I					
COMPONENT				SARA 3	02-TPQ	CERC	CLA-RQ	SARA	313
MEQUINOL				Not Liste	d	Not Li	isted	No.	
CLEAN AIR ACT								_ <b>I</b>	
COMPONENT				CAA Accid	lental R	1991 - 19	revention	1997) - Ma	
MEQUINOL				Not Listed					

#### REVISION DATE 15/01/2013

## ESTELITE FLOW QUICK High Flow

### US STATE REGULATIONS

	CAS	CA	FL	MA	MN	NJ	PA	RI
MEQUINOL	150-76-5	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	그는 그는 그는 그 그 같아요. 그는 것 같아요. 그는 것 것 같아요. 것 같아요.	
		and the second
그 같은 전쟁법법과 이 방법법이 가지 않았다. 이 방문 문장이 많은 것 같아요. 이 것	그는 방법에 가지 않는 것이 같이 있는 것이 같아요. 이 집에서 가지 않는 것이 없는 것이 없 않이 없는 것이 없 않 않이 없는 것이 없이 없이 없는 것이 없이 않이	
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**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.

Obtained by Global Safety Management, Inc. -Tel: 1-813-435-5161 - www.globalsafetynet.com

### **1. IDENTIFICATION**

Product Name	ESTELITE Σ QUICK
Identified uses	Resin-based Dental Restorative Material. For dental professionals only.
Supplier	Tokuyama Dental America Inc.
	Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/contact.htm
Manufacturer	Tokuyama Dental Corporation
	38-9, Taitou 1-chome, Taitou-ku, Tokyo
	110-0016, Japan
	TEL: +81-3-3835-2261
Emergency Telephone	Washington
	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
	Web site: http://www.poison.org
	San Francisco
	California Poison Control System
	at San Francisco General Hospital
	University of 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
	Web site: http://www.calpoison.org
	http://www.who.int/ipcs/poisons/centre/en/

Appearance	Paste	
Color	Yellow white	
Odor	No information available.	
GHS Pictogram		
	<b>^</b>	
	•	
	•	
Signal Word	Warning	
-	Warning	
-	Warning H317	May cause an allergic skin reaction.
lazard Statements	-	May cause an allergic skin reaction.
lazard Statements	-	May cause an allergic skin reaction. Wear protective gloves/protective clothing/eye protection/face protection
lazard Statements	H317	
Signal Word Hazard Statements Precautionary Statements	H317 P280	Wear protective gloves/protective clothing/eye protection/face protection
azard Statements	H317 P280 P302+352	Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water.
lazard Statements	H317 P280 P302+352 P333+313	Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local regulations.

#### **GHS Classification**

Physical and Chemical Hazards Not classified. Human health Environment

Skin Sens. 1 - H317 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.) May be slightly irritating to skin and eyes. May cause sensitization by skin contact.

3. COMPOSITION/INFORM	ATION ON INGREDIENTS	
bisphenol A di(2-hydroxy propoxy)	) dimethacrylate	10-30%
CAS No.: 1565-94-2	EC No.: 216-367-7	
GHS Classification Skin Sens. 1 - H317; Aquatic Chro	onic 3 - H412	
camphorquinone		< 1%
CAS No.: 10373-78-1	EC No.: 233-814-1	
GHS Classification Not classified.		
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 - H3	319; 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. 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** 

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/m3			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.

#### **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	1.9
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. 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**

ToxicityNo data available.DegradabilityNo data available.Bioaccumulative potentialNo data available on bioaccumulation.Partition coefficientNot available.Mobility:No information available.Results of PBT and vPvB assessmentThis 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. **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** 

All ingredients are listed or exempt. **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 This is first issue. Revision Date

08/05/2014

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.