

## **SAFETY DATA SHEETS**

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

075190533

**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).**

075190301 075190319 075190327 075190335 075190343 075190350 075190368 075190376 075190384 075190392  
075190400 075190418 075190426 075190434 075190483 075190491 075190509 075190517 075190525 075190541

REVISION DATE 15/01/2013

## MATERIAL SAFETY DATA SHEET

### ESTELITE OMEGA

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

PRODUCT NAME	ESTELITE OMEGA		
PRODUCT USE	Resin-based Dental Restorative Material. For dental professionals only.		
SUPPLIER	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)	MANUFACTURER	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan TEL: +81-3-3835-7201
CONTACT PERSON	<a href="http://www.tokuyama-dental.com/contact.htm">http://www.tokuyama-dental.com/contact.htm</a>		
EMERGENCY TELEPHONE	<p>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: <a href="mailto:pc@poison.org">pc@poison.org</a> Web site: <a href="http://www.poison.org">http://www.poison.org</a></p> <p>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: <a href="mailto:coadmin@calpoison.org">coadmin@calpoison.org</a> Web site: <a href="http://www.calpoison.org">http://www.calpoison.org</a></p> <p><a href="http://www.who.int/ipcs/poisons/centre/en/">http://www.who.int/ipcs/poisons/centre/en/</a></p>		

#### 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 OMEGA

### 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 OMEGA****9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE Paste  
 COLOR Yellow white , Translucent Yellow  
 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

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**ESTELITE OMEGA****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.

# SAFETY DATA SHEET

## ESTELITE OMEGA

### 1. Identification

#### Product identifier

**Product name** ESTELITE OMEGA

#### 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  
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



**Signal word** Warning

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

## ESTELITE OMEGA

<b>Precautionary statements</b>	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 local regulations.

### 3. Composition/information on ingredients

#### Mixtures

2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER	10-30%
CAS number: 1565-94-2	
2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER	5-10%
CAS number: 109-16-0	
BICYCLO[2.2.1]HEPTANE-2,3-DIONE, 1,7,7-TRIMETHYL-, (±)-	<0.1%
CAS number: 10373-78-1	
TITANIUM DIOXIDE (TiO <sub>2</sub> )	<0.1%
CAS number: 13463-67-7	
PHENOL, 4-METHOXY-	<0.1%
CAS number: 150-76-5	
2,6-DI- <i>t</i> -BUTYL-4-METHYLPHENOL	<0.1%
CAS number: 128-37-0	

<b>Composition comments</b>	All percentages displayed expressed as weight/weight.
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### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Due to the physical nature of this product, exposure by this route is unlikely.
<b>Ingestion</b>	Try to induce vomiting. Get medical attention if any discomfort continues.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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

## ESTELITE OMEGA

**Skin contact** Allergic rash.

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

**Notes for the doctor** Treat symptomatically.

### 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** Irritating 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.

#### Environmental precautions

**Environmental precautions** No specific recommendations.

#### 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.

#### 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 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

TITANIUM DIOXIDE (TiO<sub>2</sub>)



## ESTELITE OMEGA

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup>

A4

### PHENOL, 4-METHOXY-

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup>

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

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> inhalable fraction and vapor

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### Exposure controls

<b>Appropriate engineering controls</b>	Provide adequate general and local exhaust ventilation.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	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

<b>Appearance</b>	Paste
<b>Colour</b>	Yellow-white , Translucent Yellow
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 7
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.9
<b>Solubility(ies)</b>	Not available.

## ESTELITE OMEGA

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	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	May polymerize.
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	Skin , Eyes , Ingestion , Health effects: See section 4. Inhalation : Titanium dioxide (TiO <sub>2</sub> ) 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 LD <sub>50</sub> )	Not available.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD <sub>50</sub> )	Not available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC <sub>50</sub> )	Not available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not available.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not available.
<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>	

## ESTELITE OMEGA

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 (TiO<sub>2</sub>)

#### Carcinogenicity

IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
NTP carcinogenicity	Reasonably anticipated to be a human carcinogen.

### 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.

## 12. Ecological Information

Toxicity	No data available.
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### Ecological information on ingredients

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

#### Chronic aquatic toxicity

M factor (chronic)	1
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#### 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.

## ESTELITE OMEGA

### 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

**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.

## ESTELITE OMEGA

<b>Revision date</b>	2018-06-20
<b>Revision</b>	1
<b>Hazard statements in full</b>	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.