SAFETY DATA SHEET
ESTELITE OMEGA

1. IDENTIFICATION

Product Name: ESTELITE OMEGA
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/tdc/contact.html
Manufacturer: Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo
110-0016, Japan
TEL: +81-3-3835-2261

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: cadmin@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 number: +1 202 362 8377
E-mail address: pc@poison.org
http://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance: Paste
Color: Yellow white, translucent yellow
Odor: No information available.
GHS Pictogram:

Signal Word: Warning
Hazard Statements: H317 May cause an allergic skin reaction.

Precautionary Statements:
P280 Wear protective gloves/protection clothing/eye protection/face protection.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulations.

Contains:
bisphenol A di(2-hydroxy propoxy) dimethacrylate
triethylene glycol dimethacrylate
ESTELITE OMEGA

GHS Classification

Physical and Chemical Hazards Not classified.
Human health Skin Sens. 1 - H317
Environment Not classified.

Hazard Not Otherwise Classified (HINOC)
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/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>bisphenol A di(2-hydroxy propoxy) dimethacrylate</td>
<td>1565-94-2</td>
<td>216-367-7</td>
<td>Skin Sens. 1 - H317, Aquatic Chronic 3 - H412</td>
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<tr>
<td>camphorquinone</td>
<td>10373-78-1</td>
<td>233-814-1</td>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335</td>
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<tr>
<td>dibutyl hydroxy toluene</td>
<td>128-37-0</td>
<td>204-881-4</td>
<td>Aquatic Chronic 1 - H410</td>
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<tr>
<td>MEQUINOL</td>
<td>150-76-5</td>
<td>205-769-8</td>
<td>Acute Tox. 4 - H302; Eye Irrit. 2 - H319; Skin Sens. 1 - H317</td>
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<tr>
<td>triethylene glycol dimethacrylate</td>
<td>109-16-0</td>
<td>203-652-6</td>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317</td>
</tr>
</tbody>
</table>

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.
ESTELITE OMEGA

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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA (8-hrs)</th>
<th>STEL (15 min)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>dibutyl hydroxy toluene</td>
<td>ACGIH</td>
<td>2 mg/m³</td>
<td></td>
<td>A4</td>
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</table>

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, translucent yellow
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.
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.
ESTELITE OMEGA

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.
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.
ESTELITE OMEGA

ICAQ Class Not applicable.

Transport Labels

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

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

<table>
<thead>
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<th>Revision Date</th>
<th>01/05/2018</th>
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<tbody>
<tr>
<td>Revision</td>
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