

SAFETY DATA SHEETS

This SDS packet was issued with item:

075190517

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 075190525 075190533 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. MANUFACTURER Tokuyama Dental Corporation
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Tokyo, Japan
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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
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/>

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.

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 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 |

REVISION DATE 15/01/2013

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.

Revision Date 08/05/2014

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/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/ |

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 P302+352 P333+313 P501 | 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. |
| 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 (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/INFORMATION 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 Chronic 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 - H319; Skin Sens. 1 - H317

4. FIRST-AID MEASURES

ESTELITE OMEGA

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

| COMPONENT | STD | TWA (8-hrs) | | STEL (15 min) | | Notes |
|-------------------------|-------|-------------|---------------------|---------------|--|-------|
| dibutyl hydroxy toluene | ACGIH | | 2 mg/m ³ | | | 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 , 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. |

ESTELITE OMEGA

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.

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

| | |
|---|-------------------------------------|
| 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.

ESTELITE OMEGA

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.