SAFETY DATA SHEET
ESTELITE COLOR

1. Identification

Product identifier

Product name ESTELITE COLOR

Recommended use of the chemical and restrictions on use

Application Light-cured Characterizing 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: (877) 378 3548 (Toll-Free)
Tel: (760)942-7211
Fax: (760)942-7212

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
FAX: +81-3-3835-2265

Emergency telephone number

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: coadmin@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

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 : Eye Irrit. 2A - H319 : Skin Sens. 1 - H317 : STOT SE 3 - H335

Environmental hazards Not Classified

Label elements
ESTELITE COLOR

Pictogram

Signal word

Warning

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must 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.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/ doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with local regulations.

Contains

BISPHENOL A POLYETHOXY DIMETHACRYLATE, TRIETHYLENE GLYCOL DIMETHACRYLATE, 2-PROPENOIC ACID, 2-METHYL- (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISPHENOL A POLYETHOXY DIMETHACRYLATE</td>
<td>10-30%</td>
</tr>
<tr>
<td>CAS number: 41637-38-1</td>
<td></td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL DIMETHACRYLATE</td>
<td>5-10%</td>
</tr>
<tr>
<td>CAS number: 109-16-0</td>
<td></td>
</tr>
<tr>
<td>2-PROPENOIC ACID, 2-METHYL- (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>CAS number: 1565-94-2</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>CAS number: 13463-67-7</td>
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</tr>
</tbody>
</table>
ESTELITE COLOR

<table>
<thead>
<tr>
<th>p-METHOXYPHENOL</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 150-76-5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2,6-DI-tert-BUTYL-p-CRESOL</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 128-37-0</td>
<td></td>
</tr>
<tr>
<td>M factor (Chronic) = 1</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion Try to induce vomiting. Get medical attention if any discomfort continues.
Skin Contact Wash skin thoroughly with soap and water.
Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.
Skin contact Skin irritation. Allergic rash.
Eye contact May cause severe eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic gases may be formed.
Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors.
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 Avoid the spillage or runoff entering drains, sewers or watercourses.
ESTELITE COLOR

Methods and material for containment and cleaning up

Methods for cleaning up
Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal securely.

Reference to other sections
For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions
Wear protective clothing as described in Section 8 of this safety data sheet. All handling should only take place in well-ventilated areas. Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. 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. Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry and cool place. Store at temperatures between 0°C/32°F and 25°C/77°F. Keep away from heat, sparks and open flame. Protect from light.

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
Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³
A4, A4, A4
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

p-METHOXYPHENOL
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

2,6-DI-tert-BUTYL-p-CRESOL
Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor
Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor
Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor
A4, A4, A4
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
OSHA = Occupational Safety and Health Administration.

Exposure controls

Appropriate engineering controls
Provide adequate general and local exhaust ventilation.
ESTELITE COLOR

Eye/face protection
The following protection should be worn: Chemical splash goggles.

Hand protection
Wear protective gloves.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Do not eat, drink or smoke when using this product. 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. Take off contaminated clothing and wash it before reuse.

Respiratory protection
No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Blue, Gray, Lavender, Ochre, Yellow, Red, Pink, White, Yellow white, Dark brown, Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Technical impossibility to obtain the data.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.7</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Reactivity  There are no known reactivity hazards associated with this product.

Stability  Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions  Not known.

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

Materials to avoid  No specific material or group of materials is likely to react with the product to produce a hazardous situation.

Hazardous decomposition products  Heating may generate the following products: Toxic gases or vapors.

11. Toxicological information

Information on toxicological effects

Toxicological effects  No data on possible toxic effects have been found.

Acute toxicity - oral  Notes (oral LD₅₀) Not available.

Acute toxicity - dermal  Notes (dermal LD₅₀) Not available.

Acute toxicity - inhalation  Notes (inhalation LC₅₀) Not available.

Skin corrosion/irritation  Skin Irrit. 2 - H315, Causes skin irritation.

Animal data  Not available.

Serious eye damage/irritation  Eye Irrit. 2 - H319 Causes serious eye irritation.

Respiratory sensitization  Not available.

Skin sensitization  Skin Sens. 1 - H317 May cause an allergic skin reaction.

Germ cell mutagenicity  Not available.

Genotoxicity - in vitro  Not available.

Genotoxicity - in vivo  Not available.

Carcinogenicity  Based on available data the classification criteria are not met.

IARC carcinogenicity  Some of the ingredients are listed or exempt.

OSHA Carcinogenicity  Not listed.

Reproductive toxicity  Not available.
ESTELITE COLOR

Reproductive toxicity - development
Not available.

Specific target organ toxicity - single exposure
STOT - single exposure
STOT SE 3 - H335 May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
Not available.

Aspiration hazard
Not available.

Toxicological information on ingredients.

TITANIUM DIOXIDE

Acute toxicity - inhalation
ATE inhalation (dusts/mists mg/l) 1.5

Carcinogenicity
IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.
NTP carcinogenicity Reasonably anticipated to be a human carcinogen.
OSHA Carcinogenicity Not listed.

2,6-DI-tert-BUTYL-p-CRESOL

Carcinogenicity
IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity Reasonably anticipated to be a human carcinogen.
OSHA Carcinogenicity Not listed.

12. Ecological Information

Toxicity No data available.
Acute toxicity - fish Not available.
Acute toxicity - aquatic invertebrates Not available.
Acute toxicity - aquatic plants Not available.
Persistence and degradability
Persistence and degradability No data available.
Bioaccumulative potential
Bio-Accumulative Potential No data available on bioaccumulation.
Partition coefficient Not available.
Mobility in soil
Mobility No information available.
Other adverse effects
ESTELITE COLOR

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, DOT).

UN Number
Not applicable.

UN No. (IMDG) N/A
UN No. (ICAO) N/A
UN No. (DOT) N/A

UN proper shipping name
Not applicable.

Transport hazard class(es)
Not applicable.

IMDG Class Not applicable.
ICAO class/division Not applicable.

Transport labels
No transport warning sign required.

Packing group
Not applicable.

IMDG packing group Not applicable.
ICAO packing group Not applicable.

Environmental hazards
Environmentally Hazardous Substance
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 Status This Product is Hazardous under the OSHA Hazard Communication Standard.


US Federal Regulations
ESTELITE COLOR

SARA (311/312) Hazard Categories
Acute

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed

California Directors List of Hazardous Substances
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

Massachusetts "Right To Know" List
TITANIUM DIOXIDE
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

Rhode Island "Right To Know" List
TITANIUM DIOXIDE
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

Minnesota "Right To Know" List
TITANIUM DIOXIDE
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

New Jersey "Right To Know" List
TITANIUM DIOXIDE
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

Pennsylvania "Right To Know" List
TITANIUM DIOXIDE
p-METHOXYPHENOL
2,6-DI-tert-BUTYL-p-CRESOL

16. Other information

Training advice
Ensure operatives are trained to minimize exposure. Only trained personnel should use this material.

Revision comments
§15. Regulatory information amended

Revision date
4/10/2020

Revision
3
ESTELITE COLOR

Hazard statements in full

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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.