SAFETY DATA SHEET
OMNICHROMA BLOCKER

1. Identification

Product identifier

Product name
OMNICHROMA BLOCKER

Recommended use of the chemical and restrictions on use
Application
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: (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 Sens. 1 - H317

Environmental hazards
Not Classified

Label elements
OMNICHROMA BLOCKER

Pictogram

Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P261 Avoid breathing dust.
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.
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.

Contains 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER, TRIETHYLENE GLYCOL DIMETHACRYLATE, p-METHOXYPHENOL

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER</td>
<td>10-30%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL DIMETHACRYLATE</td>
<td>5-10%</td>
</tr>
<tr>
<td>2,6-DI-tert-BUTYL-p-CRESOL</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>p-METHOXYPHENOL</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>&lt; 0.1%</td>
</tr>
</tbody>
</table>

CAS numbers:
- TRIETHYLENE GLYCOL DIMETHACRYLATE: 109-16-0
- 2,6-DI-tert-BUTYL-p-CRESOL: 128-37-0
- p-METHOXYPHENOL: 150-76-5
- TITANIUM DIOXIDE: 13463-67-7

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.

Ingestion Try to induce vomiting. Get medical attention if any discomfort continues.

Skin Contact Wash skin thoroughly with soap and water.
OMNICHROMA BLOCKER

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. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Skin contact
Allergic rash.

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 the following media: Foam. Carbon dioxide or dry powder.

Special hazards arising from the substance or mixture

Specific hazards
When heated and in case of fire, irritating vapors/gases may be formed.

Hazardous combustion products
No known hazardous decomposition products.

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
No specific recommendations.

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. Absorb in vermiculite, dry sand or earth and place into containers.

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 in a cool and well-ventilated place. Store at temperatures between 0°C/25°F and 32°C/77°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid exposure to high temperatures or direct sunlight.

Specific end use(s)
The identified uses for this product are detailed in Section 1.
OMNICROMA BLOCKER

8. Exposure Controls/personal protection

<table>
<thead>
<tr>
<th>Control parameters</th>
<th>Occupational exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-DI-tert-BUTYL-p-CRESOL</td>
<td>Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor</td>
</tr>
<tr>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>p-METHOXYPHENOL</td>
<td>Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³ A4</td>
</tr>
<tr>
<td></td>
<td>Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust</td>
</tr>
</tbody>
</table>

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
OSHA = Occupational Safety and Health Administration.

Exposure controls

<table>
<thead>
<tr>
<th>Engineering controls</th>
<th>Provide adequate general and local exhaust ventilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>The following protection should be worn: Chemical splash goggles.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td>Other skin and body protection</td>
<td>Wear appropriate clothing to prevent any possibility of skin contact.</td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>If ventilation is inadequate, suitable respiratory protection must be worn.</td>
</tr>
</tbody>
</table>

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>Yellow-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): Not applicable.</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>
</tbody>
</table>
## OMNICHROMA BLOCKER

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Not available.</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>1.9</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 explosive.</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>May polymerize. See the other subsections of this section for further details.</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Not known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Keep away from heat, sparks and open flame. Protect against direct sunlight.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>Strong oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Heating may generate the following products: Toxic gases or vapors.</td>
</tr>
</tbody>
</table>

### 11. Toxicological information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routes of exposure</td>
<td>See section 4. Skin, Eyes, Ingestion, Inhalation</td>
</tr>
<tr>
<td>Acute toxicity - oral</td>
<td>Notes (oral LD₅₀) Not available.</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>Notes (dermal LD₅₀) Not available.</td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td></td>
</tr>
</tbody>
</table>
OMNICHROMA BLOCKER

Notes (inhalation LC₅₀) Not available.
Skin corrosion/irritation Not available.
Animal data Not available.
Serious eye damage/irritation Not available.
Respiratory sensitization Not available.
Skin sensitization Sensitizing.
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.
NTP carcinogenicity Some of the ingredients are listed or exempt.
OSHA Carcinogenicity None of the ingredients are listed.
Reproductive toxicity Reproductive toxicity - fertility Not available.
Reproductive toxicity - development 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 Not available.

Toxicological information on ingredients.

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.

TITANIUM DIOXIDE

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

Carcinogenicity

IARC carcinogenicity  IARC Group 2B  Possibly carcinogenic 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.
Chronic toxicity - fish early life stage  Not available.
Short term toxicity - embryo and sac fry stages  Not available.
Chronic toxicity - aquatic invertebrates  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

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
OMNICHROMA BLOCKER

**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.

**Regulatory References**

**US Federal Regulations**

**SARA (311/312) Hazard Categories**
Acute

**US State Regulations**

**California Proposition 65 Carcinogens and Reproductive Toxins**
*TITANIUM DIOXIDE (air borne, unbound particles of respirable size)*
Known to the State of California to cause cancer.

**California Directors List of Hazardous Substances**

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

**Massachusetts "Right To Know" List**

2,6-DI-tert-BUTYL-p-CRESOL
p-METHOXYPHENOL
TITANIUM DIOXIDE
OMNICHROMA BLOCKER

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

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

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

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

16. Other information

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

Revision comments
This is first issue.

Revision date
3/20/2018

Revision
1

Hazard statements in full
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 replied 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.