# SAFETY DATA SHEET
## OMNICHROMA

## 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Product name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OMNICHROMA</td>
</tr>
</tbody>
</table>

**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

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.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>2-PROPENOIC ACID, 2-METHYL-, 7,7,9(OR 7,9,9)-TRIMETHYL-4,13-DIOXO-3,14-DIOXA-5,12-DIAZAHEDRADECANE-1,16-DIYL ESTER</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 72869-86-4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRIETHYLENE GLYCOL DIMETHACRYLATE</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 109-16-0</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>

<table>
<thead>
<tr>
<th>BICYCLO[2.2.1]HEPTANE-2,3-DIONE, 1,7,7-TRIMETHYL-</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 10373-78-1</td>
<td></td>
</tr>
</tbody>
</table>

<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>

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.

Eye contact
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
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Most important symptoms and effects, both acute and delayed
Skin contact: Allergic rash.

Indication of immediate medical attention and special treatment needed
No specific recommendations.

Notes for the doctor

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing 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.

8. Exposure Controls/personal protection
Control parameters
Occupational exposure limits
2,6-DI-tert-BUTYL-p-CRESOL
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Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor

p-METHOXYPHENOL
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls
Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

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 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.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

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>White to slightly yellowish</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>
<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>1.8</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
</tbody>
</table>

4/8
OMNICHROMA

Auto-ignition temperature  Not available.
Decomposition Temperature  Not available.
Viscosity  Not available.
Explosive properties  Not explosive.
Oxidizing 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  Not known.
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 vapors.

11. Toxicological information

Information on toxicological effects
Routes of exposure  See section 4. Skin, Eyes, Ingestion, Inhalation
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  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.
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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
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.

12. Ecological Information

Acute aquatic toxicity
Acute toxicity - fish
Not available.

Acute toxicity - aquatic invertebrates
Not available.

Acute toxicity - aquatic plants
Not available.

Chronic aquatic toxicity
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
No data available on bioaccumulation.
OMNICHROMA

Partition coefficient
Not available.

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, DOT).

UN Number
Not applicable.

UN proper shipping name
Not applicable.

Transport hazard class(es)
No transport warning sign required.

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

p-METHOXYPHENOL

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

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

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

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

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

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
4/1/2018

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 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.