

# SAFETY SHEET

## TE.R.MO. BRIDGE

Ref. Agosto 1997 Print 18/04/2000

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<p>1. Identification data of the substance or compound and the manufacturing company</p> <p>Compound type identity Synonyms : Chemical Family: Supplier :</p> <p>Emergency telephone number :</p>	<p>TE.R.MO. .BRIDGE Acrylic Multipolymer Acrylic polymer PRESSING DENTAL SRL Via Edoardo Collamarini 5/d 47041 Dogana Repubblica di San Marino Tel **378-909948 Fax. **378-909958 E-Mail <a href="mailto:pressingdental@omniway.sm">pressingdental@omniway.sm</a></p>
<p>2. Composition/ information on the ingredients</p> <p>- Chemical features of the compound</p>	<p>- PMMA - Titanium dioxide CAS. No 013463-67-7 - Barium sulfate CAS. No 007727-43-7</p>
<p>3. Hazards identification Emergency overview - Apparence and odor:</p> <p>- Statement of hazard: Potenzial health effects - Effects of overexposure:</p>	<p>- Cylindrical disks with through-hole in the middle; various colours . slight characteristic odor - No warning statement.</p> <p>Acute oral (rat) and dermal (rabbit) LD50 values estimated to be greater than 5.000 mg/kg. And greater than 2.000 mg/kg., respectively. The 4 hour inhalation LC50 (rat) value is estimated to be greater than 20 mg/L. Overexposure to this material is not likely to cause significant acute toxic effects. Overexposure to vapor generated during processing may cause irritation of the eyes, skin, or respiratory tract. This product contains trace levels of acrylonitrile to cause cancer and trace levels of toluene which is known to the state to cause reproductive toxicity.</p>
<p>4. First aid measures</p>	<p>No specific first aid procedures are necessary for accidental exposure to this product. Molten material may cause thermal burns. Get medical attention.</p>

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<p>5. Fire-fighting measures</p> <ul style="list-style-type: none"> <li>- Flash point:</li> <li>- Flammable limits (% by vol):</li> <li>- Autoignition temp.:</li> <li>- Decomposition temp.:</li> </ul> <p>Extinguishing media and fire fighting instruction</p>	<ul style="list-style-type: none"> <li>- Not applicable</li> <li>- Not applicable</li> <li>- 454 °C.</li> <li>- 260 °C.</li> </ul> <p>Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive pressure breathing apparatus.</p>
<p>6. Accidental release measures</p> <p>Steps to be taken in case material is released or spilled.</p>	<ul style="list-style-type: none"> <li>- Sweep up spills and place in a waste disposal container. Flush area with water.</li> </ul>
<p>7. Handling and storing</p>	<ul style="list-style-type: none"> <li>- High temperatures (260 °C.) lead to non-violent decomposition, evolving methyl methacrylate. Large masses of molten polymer heated at elevated temperatures (295-300 °C.) for extended periods of time may auto-ignite.</li> </ul>
<p>8. Exposure control / personal protection</p> <p>Engineering controls and personal protective equipment (PPE)</p>	<ul style="list-style-type: none"> <li>- Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respiratory approved.</li> <li>- Good enclosure and local exhaust ventilation should be provided to control exposure to vapors generated during processing at elevated temperatures. Cutting, grinding, or sanding of parts fabricated after using this material may create respirable dust particles. Respiratory protection appropriate for this dust may be required.</li> </ul>

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<p>9. Chemical and physical properties</p> <ul style="list-style-type: none"> <li>- Appearance</li> <li>- Colour :</li> <li>- Odour :</li> <li>- Melting point:</li> <li>- Vapor pressure:</li> <li>-Specific gravity:</li> <li>- Vapor density:</li> <li>- Volatile % (By WT):</li> <li>- ph:</li> <li>- Saturation in air:</li> <li>- Evaporation rate:</li> <li>- Solubility in water :</li> </ul>	<p>Test method      ASTM D 1929</p> <ul style="list-style-type: none"> <li>- Cylindrical disks with through-hole in the middle</li> <li>- Various colours</li> <li>- Slightslight characteristica odor</li> <li>- Not applicable</li> <li>- Not applicable</li> <li>- 1.11 – 1.12</li> <li>- Not applicable</li> <li>- Negligible</li> <li>- Not applicable</li> <li>- Not applicable</li> <li>- Not applicable</li> <li>- Negligible</li> </ul>
<p>10. Stability and Reactivity</p> <ul style="list-style-type: none"> <li>- Stability: <ul style="list-style-type: none"> <li>- Conditions to avoid:</li> </ul> </li> <li>- Polimerization: <ul style="list-style-type: none"> <li>- Conditions to avoid:</li> </ul> </li> <li>- Incompatible materials:</li> <li>- Hazardous decomposition products:</li> </ul>	<ul style="list-style-type: none"> <li>- Stable <ul style="list-style-type: none"> <li>- None know</li> </ul> </li> <li>- Will not occur <ul style="list-style-type: none"> <li>- None know</li> </ul> </li> <li>- Strong oxidizing agents</li> <li>- Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, and/or methyl methacrylate.</li> </ul>
<p>11. Toxicologic information</p> <p>Toxical information for the product is found under Section 3. "Hazards Identification". Toxicological information on the OSHA regulated components of this products is as follows:</p>	<ul style="list-style-type: none"> <li>- Acute overexposure to titanium dioxide dust is not likely to cause adverse effects. Chronic overexposure to titanium dioxide may cause some lung fibrosis. Inhalation of titanium dioxide dust at 50 times the nuisance dust level caused lung fibrosis and a slight increase in lung tumor incidence in laboratory rats. When titanium dioxide was fed to rats and mice oner lifetime in a carcinogen bioassay, it was not carcinogenic.</li> <li>- Overexposure to barium sulfate is unlikely to cause significant acute toxic effects. Barium sulfate is considered to be an inert dust. Inhalation of barium sulfate can accumulate in the lungs (baritosis) with little or no physical disability.</li> </ul>
<p>12. Ecological information</p> <ul style="list-style-type: none"> <li>- Aquatic LC50, BOD, or COD:</li> <li>- Octanol/H<sub>2</sub>O partition coef.:</li> </ul>	<ul style="list-style-type: none"> <li>- No data available</li> <li>- Not applicable</li> </ul>

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<p>13. Recommendations on disposal</p>	<p>- Disposal must be made in accordance with applicable governmental regulation.</p>
<p>14. Transport information  This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.  Shipping information :  D.O.T. I.M.O. ICAO/IATA Transport</p> <ul style="list-style-type: none"> <li>- Shipping name</li> <li>- Hazard class/packing group:</li> <li>- UN / ID Number:</li> <li>- IMDG Page</li> <li>- D.O.T. Hazardous substances:</li> <li>- Transport label required:</li> <li>- Packing instr. (passenger / cargo):</li> <li>- Max net Quantity (passenger / cargo):</li> </ul>	<ul style="list-style-type: none"> <li>- not applicable, not regulated</li> <li>- not applicable</li> <li>- not applicable</li> <li>- not applicable</li> <li>- not applicable</li> <li>- none required</li> <li>- not applicable</li> <li>- not applicable</li> </ul>
<p>15. Other information</p> <p>Regulatory information  Inventory information</p> <ul style="list-style-type: none"> <li>- EEC Einecs</li> <li>- Canada DSL</li> <li>- US TSCA</li> <li>- Other environmental information</li> </ul> <p>The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR 372 or subject to other EPA regulation.</p>	<p>Before using, read carefully the equipment instruction manual and the operation technical sheets.</p> <ul style="list-style-type: none"> <li>- The European inventory status of this product is currently being evaluated.</li> <li>- The Canadian Inventory status of this product is currently being evaluated.</li> <li>- This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.</li> </ul> <p>This product does not contain any component regulated under these section of the EPA.</p>

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16. Other information - NFPA Hazard rating (National Fire Protection Association) - Fire - Helath  - Reactivity	- Materials that must be preheated before ignition can occur. - Material which on exposure under fire condition would offer no hazard beyond that of originary combustible material. - Materials whic in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.
Reasons for issue:	Revised Section 15.
Final use	See operation technical sheets and read its label.
This information is based on our current knowledge and is given to make the use, storing, transport and disposal safer. However, it is not a guarantee for the product features and quality. It only refers to the product described above and is not valid when this product is used in combination with other materials or in processes different from those listed in the safety card.	

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