

ASSOCIATED DENTAL PRODUCTS LTD  
MATERIAL HEALTH AND SAFETY DATA SHEET

Version: 9


Updated 12/01/05

1. PRODUCT AND COMPANY IDENTIFICATION									
<p><b>1.1: Product Name &amp; Codes:</b> Simplex Powder(s) ACR300-399, ACR600-601, ACR801-899 Simplex Hi ACR600-601, ACR800-801, Orthodontic Powders ACR471-472</p> <p><b>1.2: Use:</b> Manufacture of Dental Products</p> <p><b>1.3: Company Identification:</b> Associated Dental Products Ltd Kemdent Works Purton Swindon Wiltshire SN5 4HT</p> <p><b>Tel:</b> +44 (0) 1793 770 256</p> <p><b>Fax:</b> +44 (0) 1793 772 256</p> <p><b>1.4: Emergency Tel:</b> +44 (0) 1793 770 256</p>									
2. COMPOSITION/INFORMATION ON INGREDIENTS	3. HAZARDS IDENTIFICATION								
<p><b>2.1: General Description:</b> Mixture based on Methyl Methacrylate Polymer</p> <p><b>2.2: Hazardous Ingredient(s):</b> Dibenzoyl Peroxide 1-5%, CAS No.000094-36-0, EC No.202-327-6, EC Classification E,Xi,R2 R36 R43</p> <p><b>2.3:</b> The remaining ingredients are not deemed hazardous</p> <p><b>2.4: R Phrases:</b> For full text of R phrases see section 16.</p>	<p>May cause sensitisation by skin contact. May form explosible dust clouds in air. Combustible but not readily ignited.</p> <p><b>EC Classification:</b> IRRITANT.</p> <p>For label information see section 15.</p>								
4. FIRST AID MEASURES	5. FIRE FIGHTING MEASURES								
<p><b>Inhalation:</b> Remove patient from exposure. Obtain medical attention if ill effects occur.</p> <p><b>Skin Contact:</b> Remove contaminated clothing. Wash skin with water. If symptoms (irritation or blistering) occur obtain medical attention.</p> <p><b>Eye Contact:</b> Remove particles by irrigating with eyewash solution or clean water, holding eyelids apart. Obtain medical attention.</p> <p><b>Ingestion:</b> Do not induce vomiting. Wash out mouth. Obtain medical attention if ill effects occur.</p>	<p>Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. This product can form flammable dust clouds at elevated temperatures. The minimum ignition temperature of a dust cloud of a similar polymer has been measured at approximately 480°C (IEC 1241-2-1).</p> <p><b>Extinguishing Media:</b> Foam or CO2</p> <p><b>Fire Fighting Protective Equipment:</b> A self-contained breathing apparatus and full protective clothing should be worn in fire conditions.</p>								
6. ACCIDENTAL RELEASE MEASURE	7. HANDLING AND STORAGE								
<p><b>Caution:</b> Spillages may be slippery. Collect in containers for disposal using approved dust respirator.</p>	<p><b>7.1: Handling:</b> Avoid contact with skin and eyes. Process hazards: Dental resins are processed in conjunction with reactive monomers and may require higher level of PPE than that necessary for the polymer itself.</p> <p><b>7.2: Storage:</b> Store in a cool, dry place away from heat sources. Natural ventilation is adequate.</p> <p><b>7.3: Specific Uses:</b> Repair system for dental materials. Not intended for thermal processing.</p>								
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION	9. PHYSICAL AND CHEMICAL PROPERTIES								
<p><b>8.1: Exposure Limit Values:</b> Occupational exposure limits, Hazardous Ingredient(s) Dibenzoyl peroxide.</p> <table style="margin-left: 40px;"> <thead> <tr> <th></th> <th style="text-align: center;">LTEL 8hr TWA mg/m<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>Dibenzoyl peroxide</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Dust (total inhalable)</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Dust (respirable dust)</td> <td style="text-align: center;">4</td> </tr> </tbody> </table> <p><b>8.2: Exposure Controls:</b> Provide adequate ventilation, including appropriate local extraction to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.</p> <p>The following information is given as general guidance.</p> <p><b>Respirators:</b> Not normally required. If dust generation occurs use a suitable respirator.</p> <p><b>Gloves:</b> Not normally required, use if preferred.</p> <p><b>Eye Protection:</b> Safety spectacles/goggles.</p> <p><b>Other:</b> Wear suitable protective clothing.</p>		LTEL 8hr TWA mg/m <sup>3</sup>	Dibenzoyl peroxide	5	Dust (total inhalable)	10	Dust (respirable dust)	4	<p><b>Form:</b> Fine beads</p> <p><b>Colour:</b> Various shades</p> <p><b>Odour:</b> Characteristic, methyl methacrylate</p> <p><b>Ph (Value):</b> N/A</p> <p><b>Boiling Point:</b> (°C) N/A</p> <p><b>Flash Point:</b> (°C) N/A</p> <p><b>Flammable Limits:</b> N/A</p> <p><b>Auto Ignition Temperature (°C):</b> N/A</p> <p><b>Explosive Properties:</b> Not available</p> <p><b>Oxidising Properties:</b> N/A</p> <p><b>Vapour Pressure (Pascals):</b> N/A</p> <p><b>Density:</b> 1.1-1.8g/cm<sup>3</sup></p> <p><b>Solubility (Water):</b> negligible</p> <p><b>Solubility (Other):</b> Not available</p> <p><b>Partition Coefficient:</b> N/A</p> <p><b>Decomposition Temperature (°C):</b> ~240</p> <p><b>Bulk Density:</b> ~550-750 kg/ m<sup>3</sup></p>
	LTEL 8hr TWA mg/m <sup>3</sup>								
Dibenzoyl peroxide	5								
Dust (total inhalable)	10								
Dust (respirable dust)	4								

ASSOCIATED DENTAL PRODUCTS LTD  
MATERIAL HEALTH AND SAFETY DATA SHEET

Version: 9

Updated 12/01/05

<b>10. STABILITY AND REACTIVITY</b>	<b>11. TOXICOLOGICAL INFORMATION</b>
<p><b>Hazardous Reactions:</b> None known  <b>10.1: Conditions to Avoid:</b> Light  <b>10.2: Materials to Avoid:</b> N/A  <b>10.3: Hazardous Decomposition Product(s):</b> Methyl methacrylate, styrene, carbon monoxide, carbon dioxide.</p>	<p><b>Inhalation:</b> Unlikely to be hazardous by inhalation.  <b>Skin Contact:</b> May cause sensitisation by skin contact. Unlikely to cause skin irritation.            Contains greater than 0.1% residual (methyl methacrylate). During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they may produce an allergic reaction in persons already sensitised.  <b>Eye Contact:</b> Dust may cause irritation.  <b>Ingestion:</b> Low oral toxicity.  <b>Long Term Exposure:</b> No information available.</p>
<b>12. ECOLOGICAL INFORMATION</b>	<b>13. DISPOSAL CONSIDERATIONS</b>
<p><b>12.1: Ecotoxicity:</b> The product is predicted to have low toxicity to aquatic organisms.            The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.  <b>12.2: Mobility:</b> The product is predicted to have low mobility in soil.  <b>12.3: Persistence and Degradability:</b> The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.  <b>12.4: Bioaccumulative:</b> The product has a low potential for bioaccumulation.  <b>12.5 Other Adverse effects:</b> No information available.</p>	<p>Disposal should be in accordance with local or national legislation.</p>
<b>14. TRANSPORT INFORMATION</b>	<b>15. REGULATORY INFORMATION</b>
<p>Do not fall under the transportation classification for dangerous substances.</p>	<p><b>Hazard Symbol:</b> Xi  <b>Safety Phrases:</b> S24: Avoid contact with skin.  <b>EC Classification:</b> IRRITANT</p> <div style="text-align: center;">  </div>
<b>16. OTHER INFORMATION</b>	
<p><b>Risk Phrases:</b>  <b>R2:</b> Risk of explosion by shock, friction, fire or other sources of ignition.  <b>R36:</b> Irritating to eyes.  <b>R43:</b> May cause sensitisation by skin contact.</p>	