

**R&R<sup>®</sup>**  
**DENTSPLY<sup>®</sup>**

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## MATERIAL SAFETY DATA SHEET

<b>FORM NUMBER:</b> 337	<b>ISSUE DATE:</b> 6/05	<b>REVISED DATE:</b> 09/2005
<b>PRODUCT TRADE NAME:</b> Cup Filter		

### SECTION I - GENERAL INFORMATION

<b>Part (Item) Number</b> <b>Chemical Name</b> <b>Synonyms</b> <b>DENTSPLY Contact</b> <b>Formula</b> <b>Chemical Family</b>	Mineral
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### SECTION II - PRODUCT INGREDIENTS

Chemical Name (Ingredients)	CAS #	%	TLV mg/m <sup>3</sup>	OSHA PEL mg/m <sup>3</sup>
<i>Hazardous Components</i> Fiberglass Continuous Filament	65997-17-3	98-100	See below as non-respirable and respirable (8-hr TWA)	
Non-respirable filaments and particulate (Fibrous Glass) fraction	65997-17-3	>98	5 mg/m <sup>3</sup> inhalable	15 mg/m <sup>3</sup> total dust
Respirable particulate	65997-17-3	<1	3 mg/m <sup>3</sup> PNOC*	5 mg/m <sup>3</sup> resp. dust
Respirable particulate with fiber-like dimensions (glass shards)	65997-17-3	<0.002	1 fiber/cc (resp.)	None established
*PNOC = Particles not otherwise classified				
NOTE: As manufactured continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.				
Phenolic resin (Resol)	108-95-2 50-00-0	0-10	1 ppm TWA (8 hrs)	5 ppm TWA 8 hrs
Silane	919-30-2	0-1	N/A	

**SECTION III - PHYSICAL PROPERTIES**

<b>Boiling Point</b>	N/A	<b>Specific Gravity</b>	1.4 – 2.5
<b>Vapor Pressure</b>	N/A	<b>pH</b>	N/A
<b>Vapor Density</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Critical Temperature</b>	N/A	<b>Viscosity</b>	N/A
<b>Decomposition Temperature</b>	N/A	<b>% Volatile by Volume</b>	N/A
<b>Melting/Freezing Point</b>	>3000°F-fabric	<b>Magnetism</b>	N/A
<b>Solubility in Water</b>	N/A	<b>Autoignition Temperature</b>	N/A
<b>Critical Pressure</b>	N/A	<b>Corrosion Rate</b>	N/A
<b>Permeable Exposure Limit</b>	N/A	<b>Molecular Weight</b>	N/A
<b>Appearance and Odor</b>	Brown shaped mesh - negligible odor		

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (Method Used)</b>	N/A		
<b>Flammable (Explosion) Limits:</b>	<b>LEL:</b> N/A	<b>UEL:</b> N/A	
<b>Extinguishing Media -</b>	<b>Water Spray:</b> Y	<b>Carbon Dioxide:</b>	<b>Foam:</b> Y
	<b>Dry Chemical:</b>	<b>Other:</b>	
<b>Special Fire Fighting Procedures and Equipment</b>		<b>Avoid eye and skin contact:</b> Y	
	<b>Do not breathe fumes</b> : Y	<b>Other:</b> Use self-contained breathing apparatus in sustained fire.	
<b>Unusual Fire and Explosion Hazards:</b> Phenolic resin decomposition products may be evolved during a large fire (see other above).			

**SECTION V - HEALTH HAZARD DATA**

<b>Effects of Over Exposure:</b>	There are no known health affects associated with chronic exposure to this product.
<b>Emergency and First Aid Procedures.</b>	In case of eye contact GET MEDICAL ATTENTION! Flush with flowing water at least 15 minutes.
<b>Eyes:</b>	Dust from binder fibers may cause temporary irritation.
<b>Skin:</b>	May cause temporary irritation - flush with soap/water, seek medical attention if irritation persists.
<b>Inhalation:</b>	Dust from broken fiber may cause temporary irritation - remove person to fresh air, seek medical attention if irritation persists.
<b>Ingestion:</b>	Not a normal route of exposure. May cause irritation.
<b>NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS!</b>	
<b>Carcinogenicity:</b>	Amorphous silica is not listed as a carcinogen by ACGIH, IARC, NTP or OSHA. Fabric which has been subject to elevated temperatures (>1800°F) may undergo partial conversions to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on temperature and length of service. The OSHA PEL for cristobalite is 0.05 mg/M <sup>3</sup> (respirable). When handling used filters care should be taken to minimize dust. Wear a NIOSH approved respirator.
<b>Medical Conditions Aggravated:</b>	None known
<b>Labels:</b>	
<b>Transportation</b>	

<b>Regulations:</b>	
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### SECTION VI - REACTIVITY DATA

<b>Stability:</b>	<b>Stable:</b> Y	<b>Unstable:</b> N
<b>Conditions to avoid (Stability):</b>	N/A	
<b>Incompatibility (Materials to Avoid):</b>	Strong alkalis and fluorides	
<b>Hazardous Decomposition Products:</b>	Thermal decomposition of phenolic resin coating may produce CO, CO <sub>2</sub> and phenol vapors.	
<b>Hazardous Polymerization:</b>	<b>Will Occur:</b> N	<b>Will Not Occur:</b> Y
<b>Conditions to Avoid (Polymerization):</b>		

### SECTION VII - PRECAUTIONS FOR HANDLING AND USE

<b>Handling and Storage Precautions:</b>	Store in dry area
<b>Other Precautions:</b>	
<b>Steps to be Taken in Case Material is Released or Spilled:</b>	Use appropriate safety equipment when handling a spill or leak. Avoid procedures that may result in contamination of waterways by phenolic material.
<b>Waste Disposal Procedure:</b>	Dispose of in accordance to all applicable federal, state and local regulations.
<b>Neutralizing Agent:</b>	

### SECTION VIII - OCCUPATIONAL PROTECTION MEASURES

<b>Respirator Protection:</b>	Use a NIOSH approved dust and fibers respirator such as 3M model 8210 or equivalent when high levels of dust and fibers are present.	
<b>Ventilation-</b>	<b>Local Exhaust:</b> Y	<b>Mechanical (General):</b> Y
	<b>Special:</b>	<b>Other:</b>
<b>Protective Gloves:</b>	Leather gloves	
<b>Eye Protection:</b>	Not normally necessary but recommended - side shields	
	<b>Chemical Workers Goggles:</b> Y	<b>Other:</b> Eye wash station should be accessible
<b>Other Personal Protective Equipment:</b>	Protective clothing should be worn by people susceptible to skin irritation.	

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