

# Material Safety Data Sheet

RENAMEL FLOWABLE HYBRID

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## SECTION I – Product/Company Identification

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1.1 Product Trade Name: RENAMEL FLOWABLE HYBRID  
1.2 Part (Item) Number:  
1.3 Division Name: COSMEDENT Inc.  
1.4 Address: 401 North Michigan Avenue  
Chicago, IL 60611  
1.5 Emergency Telephone Number:  
1.6 Telephone Number for Information: (312) 644-9586// (800) 621-6729  
1.7 Date Prepared: 03-04-2011

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## SECTION II – Hazardous Ingredients/Identity Information

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Hazardous Components		OSHA PEL	ACGIH TLV	Other Limits
Di urethane dimethacrylate	CAS-Nr. 72869 -86-4	N.E.	N.E.	
Bis-GMA	CAS-Nr. 1565-94-2	N.E.	N.E.	
Butanediol dimethacrylate	CAS-Nr. 2082-81-7	N.E.	N.E.	
Strontium aluminum boron silicate glass		N.E.	N.E.	
Silica fume (as Dust)		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	

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## SECTION III – Physical/Chemical Characteristics

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3.1 Boiling Point: N.A. 3.6 Specific Gravity: 1,7 g/cm<sup>3</sup>  
3.2 Vapor Pressure: N.A. 3.7 Melting Point: N.E.  
3.3 Vapor Density: N.A. 3.8 Evaporation Rate: N.A.  
3.4 Solubility in Water: Not soluble  
3.5 Appearance and Odor: Various shades of viscous paste with sweet acrylic ester odor

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## SECTION IV – Fire and Explosion Hazard Data

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4.1 Flash Point: N.A.  
4.2 Flammability (explosive limits): N.A.  
4.3 Extinguishing Media: LEL: N.A. UEL: N.A.  
Water spray, Carbon dioxide, foam  
4.4 Special Fire Fighting Procedures: Fire fighter should wear full protective clothing including a self contained breathing apparatus  
4.5 Unusual Fire and Explosion Hazards: During a fire, irritating gases from the decomposition may be present

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## SECTION V – Reactivity Data

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5.1 Stability: **Unstable:** **Stable:** X  
5.2 Condition to Avoid (Stability): Bright visible light. Temperatures greater than 50°C (122°F)  
5.3 Incompatibility (Materials to Avoid): Strong oxidizing agents  
5.4 Hazardous Decomposition or Byproducts: Irritating gases, CO and CO<sub>2</sub>  
5.5 Hazardous Polymerisation: **May Occur:** **Will not Occur:** X  
5.6 Conditions to Avoid (Polymerisation): Elevated temperatures and oxidizing materials. Product is sensitive to visible light. Heat greater than 50°C

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## SECTION VI – Health Hazard Data

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<b>6.1 Route(s) of Entry:</b>	<b>Inhalation?:</b> No	<b>Skin?:</b> Yes	<b>Ingestion?:</b> Possible
<b>6.2 Health Hazards (Acute and Chronic):</b>	LD-50 1,4-Butanedioldimethacrylate LD-50 Urethandimethacrylate LD-50 Bis-GMA	Material can cause irritation. Material may be an irritant. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response.	> 5000 mg /kg (rat, oral) > 2000 mg /kg (rat, oral) > 2000 mg /kg (rat, oral)
<b>Eyes:</b>			
<b>Skin:</b>			
<b>Ingestion:</b>		Material is probably not harmful if swallowed.	
<b>6.3 Carcinogenicity:</b>	<b>NTP?:</b> Not listed	<b>IARC Monographs?:</b> Not listed	<b>OSHA Regulated?:</b> No
		All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic substances Control Act (TSCA) Chemical Substance Inventory.	
<b>6.4 Signs and Symptoms of Exposure:</b>		Dermal redness or irritation. Severe allergic response may result in breathing difficulties.	
<b>6.5 Medical Conditions Generally Aggravated by Exposure:</b>		Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates or urethane dimethacrylates.	
<b>6.6 Emergency First Aid Procedures:</b>			
<b>Eyes:</b>		In case of eye contact, flush with flowing water. Get prompt medical attention.	
<b>Skin:</b>		Wash skin with soap and water. If irritation persists, call a physician	
<b>Ingestion:</b>		If swallowed give 2 glasses of water to drink. See a physician.	

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## SECTION VII – Precautions for Safe Handling and Use

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<b>7.1 Steps to Be Taken in Case Material is Released or Spilled:</b>	Scoop bulk material and place in a labeled plastic or metal container. Avoid gross skin contact .
<b>7.2 Waste Disposal Methods:</b>	Dispose of in accordance with Federal, State and Local environmental control regulations.
<b>7.3 Precautions to Be Taken in Handling and Storage:</b>	Store away from food and beverages. Store away from extreme heat.
<b>7.4 Other Precautions:</b>	None

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## SECTION VIII – Control Measures

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<b>8.1 Respiratory Protection:</b>	None required during normal use of this product.
<b>8.2 Ventilation:</b>	None required during normal intended use of this product.
<b>8.3 Protective Gloves:</b>	Latex or vinyl gloves
<b>8.4 Eye Protection:</b>	Protective goggles
<b>8.5 Other Protective Clothing or Equipment:</b>	Coat
<b>8.6 Work/Hygienic Practices:</b>	Observe normal care when working with chemicals.

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