1. Product and Company Identification

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Product Name	SDS Code Number
Prime & Bond Elect® Universal Dental Adhesive	534801
Trade Name & Synonyms	Date of Last Revision
Prime & Bond Elect® Universal Dental Adhesive	07/31/15
Manufacturer:	Address
DENTSPLY Caulk	38 West Clarke Avenue
	Milford DE 19963-1805
	http://www.caulk.com
Grades or Minor Variant Identities	Information Telephone Number
Not Applicable	(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada)	Emergency Telephone Number
Dental Bonding Agent	(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

## 2. Hazard(s) Identification



Warning Highly Flammable Liquid and Vapour

Keep away from heat/sparks/open flames / hot surfaces.
No smoking.

Keep container tightly closed.

Wear protective gloves/eye protection/face protection. Ground / Bond container and receiving equipment. Use explosion-proof electrical lighting equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

IF ON SKIN or Hair: Remove / take off immediately all contaminated

clothing. Rinse skin with water / shower.

In case of fire: Use CO<sub>2</sub> sand or extinguishing powder.



Warning Causes Skin Irritation

Wash hands thoroughly after handling.
Wear protective gloves
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get Medical Advice/attention.
Take off contaminated clothing and wash before reuse.

3. Composition/Information on Ingredients

2. Composition/intornation on ingredients						
<b>Hazardous Components</b>	C.A.S. Number	<b>Exposure Limits</b>	%			
Acetone	67-64-1	500 ppm	< 50			
Urethane Dimethacrylate Resin	105883-40-7	Not Applicable	< 20			
Dipentaerythritol pentaacrylate phosphate	87699-25-0	Not Applicable	< 20			
Polymerizeable dimethacrylate resin	1709-71-3 / 868-77-9	Not Applicable	< 20			
Polymerizeable trimethacrylate resin	3290-92-4	Not Applicable	< 15			

## 4. First Aid Measures

Routes of	First Aid Instructions	Immediate	Delayed Effects			
Exposure		Medical Attention				
Eye	Rinse opened eye for several minutes under running water.	Not Applicable	Not Applicable			
	If symptoms persist consult physician.					
Skin	Immediately wash with soap and water and rinse thoroughly	Not Applicable	Not Applicable			
Inhalation	Supply fresh air	Not Applicable	Not Applicable			
Ingestion	If symptoms persist consult physician	Not Applicable	Not Applicable			
Other	Other Not Applicable		Not Applicable			
Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.						

# 5. Fire and Explosion Data

Flashpoint Method: 2°C (36°F)	Flammable (Explosive) Limits in Air	Autoignition Temperature: Not	Other: Not		
Pensky-Marten Closed Cup	LEL: 2.5 vol. % UEL: 12. 8 vol. %	Applicable	Applicable		
Flame Propagation or Burning Rate	Properties Contributing to Fire Intensity: Not	Flammability Classification: 3			
(for Solids): Not Applicable	Applicable				
Extinguishing Media: CO <sub>2</sub> , sand or extingu	Media: CO <sub>2</sub> , sand or extinguishing powder.		e water or water		
	with full jet.				
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.					
Unusual Fire and Explosion Hazards: Formation of toxic gases is possible during heating or in case of fire.					

#### 6. Accidental Release Measures

Containment Techniques: Wear protective clothing. Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust).

Scoop up bulk material and place in a labeled plastic or metal container.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing. Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust). Scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of contact dermatitis to susceptible persons. Ensure adequate ventilation.

Evacuation Procedures: Not Applicable

Special Instructions: Not Applicable

Reporting Requirements: Not Applicable

#### 7. Handling and Storage

Handling Practices and Warnings: Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage Practices and Warnings: Store in a well-ventilated place. Keep cool. Store only in the original package. Keep package tightly sealed. Protect from exposure to direct light. Store away from food and beverages.

## 8. Exposure Control / Personal Protection









Ventilation: None	required during normal intended use of this product	Other Engineering Controls: Not Applicabl	e	
Routes of Entry	outes of Entry Personal Protective Equipment (PPE) for Normal Use		PPE for Emergencies	
Eye/Face	Safety	Glasses	Not Applicable	
Skin	The glove material has to be imper	meable and resistant to the product.	Not Applicable	
Inhalation	Not required for normal volumes used in Dental office.		Not Applicable	
Body Protection	rtion Protective work clothing		Not Applicable	
General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.				
Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.				
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable				
Other Protective Measures and Equipment: Not Applicable				

## 9. Physical and Chemical Characteristics

Appearance: Light yellow liquid.			Odor: Acetone like with characteristic sweet acrylic ester odor.		
Normal Physical State: Low viscosity liquid			Melting Point: Not Determined Boiling Point: 57°C (135°F)		Boiling Point: 57°C (135°F)
Specific Gravity: ~0.9 g/cm <sup>3</sup> Solubility in Water: Partially		pH: 2.5			
Vapor Pressure (mm Hg): Not Applicable Va		Vapor Density (AIR=1):	Not Applicable	Evaporation Rate (	Butyl Acetate=1): Not Applicable
Other: Not Applicable					

## 10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): Visible light, high temperatures, strong acids, strong oxidizing agents.		
Hazardous Products Produced During Decomposition: Methacrylates, acrylates, carbon dioxide, carbon monoxide, peroxides and irritating gases.		
Hazardous Polymerization: May Occur May Not Occur Conditions to Avoid: High Temperatures, ignition sources.		
Stability? ⊠Stable ☐Unstable Conditions to Avoid: High Temperatures, ignition sources.		

### 11. Toxicological Information

Emergency C	Emergency Overview: Material is flammable. Material is irritating to eyes, respiratory system and skin.					
	Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:					
Product is an irri	itant to skin and mucous membranes. Th	e unpolymerized prod	uct may be an irritant	to the skin in susceptible persons. On the eye the	product has an	
				cause sensitization for persons allergic to acrylate	es and	
methacrylates. T	his product shows the following dangers	s according to internal	ly approved calculation	on methods for composite materials: Irritant.		
Routes of	Routes of Signs and Symptoms Single, Repeated, Severity (Mild, Acute and Chronic Health Effect(s)					
Exposure		or Lifetime	Moderate, Severe)		Target	
		Exposure			Organ(s)	
Eye	Material can cause irritation.	Single	Moderate	Irritation and possible corneal damage	Yes	
Skin	Material may be an irritant and may	Single & Repeated	Moderate	Irritation or possible allergic response.	Yes	
	be absorbed through the skin.			Severe allergic response may result		
	in breathing difficulties.					

Inhalation	Inhalation of high concentrations	Repeated	Moderate	Chronic inhalation may cause effects similar to	Yes
	may cause central nervous system			those of acute inhalation. Causes respiratory	
	effects characterized by nausea,			tract irritation. May cause motor incoordination	
	headache, dizziness,			and speech abnormalities.	
	unconsciousness and coma.				
Ingestion	May cause irritation of the digestive	Single & Repeated	Mild	Not Applicable	No
	tract.				
Other: Central	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
nervous system					

Medical Conditions Aggravated by Exposure: Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products.

Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: 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.

Potential Environmental Effects Do not allow to enter sewers/ surface or ground water.

NFPA Hazard Classification Ratings (Scale 0-4) Health = 2, Fire = 3, Reactivity = 0 Specific Hazard = None

## 12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Harmful to fish. Harmful to aquatic organisms.

#### 13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations

14. Transport Information

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Regulated for Shipping: Yes   Proper Shipping Name: Acetone Solut	Packing Group: II	
Do Changes in Quantities, packaging, or shipment method change	Hazard Class: 3	UN Identification Number: 1090
product classification? Yes		
Other: Not Applicable		



#### 15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.

U.S. Federal Regulations: CERCLA 103 Reportable Quantity: RQ is 5,000 pounds (2268Kg) for CAS# 67-64-1 Acetone. Report spills required under federal, state and local regulations. Many states have more stringent release reporting requirements.

Section 313 Toxic Chemicals: This product does not contain any chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372).

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

Federal Regulations: The product has been classified and marked in accordance with directives on hazardous materials. Hazard Symbol: Flammable Water Hazard class1 (Self-assessment): slightly hazardous for water. SARA Codes: CAS # 67-64-1 Acute, chronic, flammable.

Other: Canada WHMIS for the acetone, classification of B2, D2B. Acetone CAS#67-64-1 is on the Canadian Ingredient Disclosure List.

#### 16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.

All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.