DENTSPLY/International DENTSPLY/Caulk Safety Data Sheet

534895

1. Identification

Product Name	SDS Code Number
ProBond [®] Adhesive	534895
Substance Identity	Date of Last Revision
ProBond® Adhesive All Purpose Bonding Agent	05/16/13
Manufacturer:	Address
DENTSPLY Caulk	38 West Clarke Avenue
	Milford DE 19963-1805
	http://www.caulk.com http://www.dentsply.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



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

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Hazardous Components	C.A.S. Number	Exposure Limits	%	
Urethane dimethacrylate resin	127312-03-2	Not Established	< than 60	
Polymerizable dimethacrylate resins	109-16-0	Not Established	< than 30	
Dipentaerythritol pentaacrylate phosphate	87699-25-0	Not Established	< than 10	
Glutaraldehyde	111-30-8	0.2 mg/m^3	< than 5	

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects	
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	Not Applicable	Not Applicable	Not Applicable	
Ingestion	Not Applicable	Not Applicable	Not Applicable	
Mucosa	Rinse tissue for several minutes under running water.	Not Applicable	Not Applicable	
If symptoms persist consult physician				
Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.				

5. Fire Fighting Measures

Flame Propagation or Burning Rate	Properties Contributing to Fire Intensity	Flammability Classification: Not Applicable	Other: Not Applicable	
(for Solids) Not Applicable	Not Applicable			
Extinguishing Media: CO ₂ , extinguishing powder, foam carbon dioxide or water Extinguishing Media to Avoid: Water with full jet.				
spray. Fight larger fires with water spray or alcohol resistant foam.				
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.				
Unusual Fire and Explosion Hazards: Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins.				
Product does not present an explosion hazard.				

6. Accidental Release Measures

		s such will not flow.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and 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: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages.

8. Exposure Control / Personal Protection









Occupational Exposure Limits: Not Applicable			
Engineering Controls: N	Not Applicable		
Individual Protection	Personal Protective Equipment for Normal Use	Personal Protective Equipment	
Measures	• •	for Emergencies	
Eye/Face	Safety Glasses	Not Applicable	
Skin	The glove material has to be impermeable and resistant to the product.	Not Applicable	
Inhalation	Not Required	Not Applicable	
Body Protection	Protective work clothing	Not Applicable	

9. Physical and Chemical Characteristics

Appearance: Light yellow liquid.	•	Odor: Characteristic sweet acrylic ester odor.
Normal Physical State: Liquid		Melting Point: Not Applicable
Specific Gravity: 1.1 g/cm ³	Solubility in Water: Not soluble	pH: Not Applicable
Vapor Pressure (mm Hg): Not Applicable	Vapor Density (AIR=1): Not Applicable	Evaporation Rate (Butyl Acetate =1): Not Applicable
Flashpoint Method: Not Applicable	Flammable (Explosive) Limits in Air	Autoignition Temperature: Not Applicable,
	LEL: Not Applicable UEL: Not Applicable	Product will not autoignite.
Other: Not Applicable		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): Strong Oxidizing materials.		
Hazardous Products Produced During Decomposition: No dangerous decomposition products known if used according to Directions for Use.		
Hazardous Polymerization: May Occur May Not Occur Conditions to Avoid: None known		
Stability? ⊠Stable ☐Unstable	Conditions to Avoid: None known	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:

Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant.

Emergency Ov	Emergency Overview Material is irritating to eyes, respiratory system and skin.				
Routes of		Single, Repeated, or	Severity (Mild,	Acute and Chronic Health Effect(s)	Target Organ(s)
Exposure	Signs and Symptoms	Lifetime Exposure	Moderate, Severe)		
Eye	Material can cause irritation.	Single	Moderate	Irritation and possible corneal damage	Not Applicable
Skin	Material may be an irritant	Single & Repeated	Moderate	Irritation or possible allergic response. Severe allergic response may result in breathing difficulties.	Not Applicable
Inhalation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ingestion	Material is not harmful if swallowed using clinically relevant quantities	Not Applicable	Mild	Not Applicable	Not Applicable
Mucosa	Material can cause irritation.	Single	Mild	Inflammation of the mucosa	Not Applicable

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 = 1, Fire = 1, Reactivity = 0

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

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

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

14.Transport Information

Regulated for Shipping: No. Not Regulated	DOT Shipping Name: Not Regulated	Packing Group: Not Applicable
Do Changes in Quantities, packaging, or shipment	DOT Hazard Class: Not Applicable	UN Number: Not Applicable
method change product classification? No		

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: <u>CERCLA 103 Reportable Quantity</u>: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

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.

International Regulations: Canadian Environmental Protection Act:

This product is a medical device and not subject to chemical notification requirements.

European Community Labeling: Not a dangerous preparation.

European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements.

Other: Not Applicable

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.

DENTSPLY/International DENTSPLY/Caulk Safety Data Sheet

534896

1. Identification

Product Name	SDS Code Number
ProBond® Primer All Purpose Bonding Agent	534896
Trade Name & Synonyms	Date of Last Revision
ProBond® Primer All Purpose Bonding Agent	04/15/11
Manufacturer:	Address
DENTSPLY Caulk	38 West Clarke Avenue
	Milford DE 19963-1805
	http://www.caulk.com http://www.dentsply.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
Not Applicable	(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

2. Hazard(s) Identification



Danger Highly Flammable Liquid and Vapor



MAY CAUSE AN ALLERGIC SKIN REACTION

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

Keep container tightly closed. Use only non-sparking tools.

Take precautionary measures against static discharge.

In case of fire: Use dry chemical, alcohol foam, or carbon dioxide for extinction.

Store in a well ventilated place. Keep Cool.

Avoid breathing vapors.

Contaminated work clothing should not be allowed out of the workplace.

Wash thoroughly after handling.

Wear protective gloves.

IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical attention.

IF ON SKIN: Remove immediately all contaminated clothing. Rinse with water.

If skin irritation occurs: Get Medical Advice/attention.

Wash contaminated clothing before reuse.

Avoid breathing vapors.

Use only outdoors or in well ventilated area.

IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON Center or physician if you feel unwell.

Dispose of contents/container in accordance with local regulations.

3. Composition/Information on Ingredients

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Hazardous Components	C.A.S. Number	Exposure Limits	%
Acetone	67-64-1	500 ppm	< 80
Ethyl Alcohol	64-17-5	1000 ppm	< 25
Dipentaerythritol pentaacrylate phosphate	87699-25-0	Not Established	< 10

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minutes under running water. If symptoms persist	Not Applicable	Not Applicable
	consult physician		
Skin	Immediately wash with soap and water and rinse thoroughly	Not Applicable	Not Applicable
Inhalation	Supply fresh air, consult physician if symptoms persist	Not Applicable	Not Applicable
Ingestion	If symptoms persist consult physician	Not Applicable	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable

5. Fire Fighting Measures

	0 0			
Flashpoint Method: 4°C (39°F)	Flammable (Explosive) Limits in Air	Autoignition Temperature:	Other: Not	
Pensky-Marten Closed Cup	LEL: 2.5 vol. % UEL: 12. 8 vol. %	465°C (869°F)	Applicable	
Flame Propagation or Burning Rate (for Solids): Not	Properties Contributing to Fire	Flammability Classification: 3		
Applicable	Intensity: Not Applicable	·		
Extinguishing Media: CO ₂ , extinguishing powder or wa	Extinguishing Media to Avoid:			
sprat or alcohol resistant foam.	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 and absorb spill with inert material (e.g. vermiculite, sand, earth), then place material in suitable labeled plastic or metal container.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and absorb spill with inert material (e.g. vermiculite, sand, earth), then place material in suitable 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 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					
Engineering Controls: Not Applicable					
Individual Protection	Individual Protection Personal Protective Equipment for Normal Use				
Measures	Measures				
Eye/Face	Eye/Face Safety Glasses				
Skin	Skin The glove material has to be impermeable and resistant to the product.				
Inhalation	Inhalation Not required when using clinically relevant quantities used in Dental office.				
Body Protection	Body Protection Protective work clothing				

9. Physical and Chemical Characteristics

	<u> </u>			
Appearance: Clear liquid.	Odor: Acetone and ethyl alcohol odor.			
Normal Physical State: Low viscosity liquid		Melting Point: Not Determined Boiling Point: 55.1°C (13		Boiling Point: 55.1°C (131°F)
Specific Gravity: ~0.9 g/cm ³ Solubility in Water: Partially		pH: Not Applicable		
Vapor Pressure (mm Hg): 233 mbar @ 20°C		Not Applicable	Evaporation Rate (1	Butyl Acetate=1): Not Applicable
Other: Not Applicable				

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): High temperatures, 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

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:

Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant.

ACGIH: A4- Not classifiable as a Human Carcinogen.

Emergency Overview: Material is irritating to eyes, respiratory system and skin. Breathing vapors may cause drowsiness and dizziness.					
Routes of		Single, Repeated, or	Severity (Mild,	Acute and Chronic Health Effect(s)	Target
Exposure	Signs and Symptoms	Lifetime Exposure	Moderate,		Organ(s)

			Severe)		
Eye	Material can cause irritation.	Single	Moderate	Irritation and possible corneal damage	Yes
Skin	Material may be an irritant and may be absorbed through the skin.	Single & Repeated	Moderate	Irritation or possible allergic response. Severe allergic response may result in breathing difficulties.	Yes
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. This may not be of concern when using clinically relevant quantities.	Repeated	Moderate	Chronic inhalation may cause effects similar to those of acute inhalation. Causes respiratory tract irritation. May cause motor in coordination and speech abnormalities.	Yes
Ingestion	May cause irritation of the digestive tract. This may not be of concern when using clinically relevant quantities.	Single & Repeated	Mild	Not Applicable	No
Other Central nervous system	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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 =1, Fire =3, Reactivity=0 Specific Hazard = None

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): The acetone in the product will volatilizes, leech and biodegrade when released to the soil. Terrestrial Fate: If release on soil, acetone will both volatilize and leach into the ground. Acetone readily biodegrades and there is evidence suggesting that it biodegrades fairly rapidly in soils. Aquatic Fate: If released into water acetone will probable biodegrade. It is readily biodegradable in screening tests, although data from natural water are lacking. It will also be lost due to volatilization. Adsorption to sediment should not be significant.

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

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

RCRA P-Series: None Listed, RCRA U-Series CAS#67-64-1: Waste Number U002 (Ignitable Waste)

14.Transport Information



Regulated for Shipping: Yes Proper Shipping Name: Acetone Solution Packing Group: II Proper Shipping Name: Acetone Solution Do Changes in Quantities, packaging, or shipment method change product classification? No Hazard Class: 3 UN Identification Number: 1090

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>U.S. Federal Regulations</u>: <u>CERCLA 103 Reportable Quantity</u>: 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.

RCRA U-Series Hazardous Waste Code for CAS# 67-64-1 Acetone: U002

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.

International Regulations: Hazard Symbol: Flammable XI F Risk Phrases: R11 Highly Flammable, R36/37/38 Irritating to Eyes, respiratory system and skin. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67 Vapors may cause drowsiness and dizziness. Safety Phrases: S9 Keep container in well-ventilated place. S16 Keep away from sources of ignition – No Smoking, S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S28 After contact with skin wash immediately with plenty of water, S61 Avoid release to the environment.

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.