DENTSPLY/International DENTSPLY/Caulk Safety Data Sheet

1. Product and Company Identification

1. Froduct and Company	RECITERCITION		
r'roduct Name	SDS Code Number		
PRIME & BOND®NT [™] Nano – Technology Dental Adhesive	534398		
Trade Name & Synonyms	Date of Last Revision		
PRIME & BOND®NT™ Nano – Technology Dental Adhesive	02/02/11		
Manufacturer:	Address		
DENTSPLY Caulk	38 West Clarke Avenue		
	Milford DE 19963-1805		
	http://www.caulk.com		
Grades or Minor Variant Identities	Information Telephone Number		
Unit Dose Package	(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)		
Product Use (for Canada)	Emergency Telephone Number		
Dental Bonding Agent	(302) 4:22-4511 (8:00 AM – 4:30 PM Eastern Time)		

2. Hazard(s) Identification



Warning
Highly Flammable Liquid and Vapour

Warning Causes Skin Irritation

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 CO₂ sand or extinguishing powder.

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

Hazardous Components	C.A.S. Number	Exposure Limits	%
Acetone	67-64-1	500 ppm	< 70
Urethane dimethacrylate resin	105883-40-7	Not Established	< 20
Dipentaerythritol pentaacrylate phosphate	87699-25-0	Not Established	< 10
Polymerizable dimethacrylate resins	2358-84-1	Not Established	< 10
Polymerizable trimethacrylate resins	3290-92-4	Not Established	< 10

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. If symptoms persist consult physician.	Not Applicable	Not Applicable
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	Not Applicable	Not Applicable	Not Applicable
Note to Physicia	ans (Treating, Testing and Monitoring): Treat symptomatically.		

5. Fire and Explosion Data

r·· 	- SAN CAME Explosion Date	•			
Flashpoint Method: -19°C (-2°F) Pensky-Marten Closed Cup	Flammable (Explcsive) Limits in Air LEL: 2.5 vol. % UEL: 12. 8 vol. %	Autoignition Temperature: 465°C (869°F)	Other: Not Applicable		
Flame Propagation or Burning Rate (for Solids): Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: 3			
Extinguishing Media: CO ₂ , sand or extinguishing powder. Extinguishing Media to Avoid: Do not use water or water with full jet.					
Protection and Procedures for Firefighters:	Firefighters should wear self-contained respiratory protecti	ve 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: Har dling 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

8. Exposure Control / Personal Protection



direct light. Store away from food and beverages.







	d during normal intended use of this product	Other Engineering Controls: Not Applicable	
Routes of Entry	Personal Protective Equi	pment (PPE) for Normal Use	PPE 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 for normal volumes used in Dental office.		Not Applicable
Body Protection	Protective work clothing		Not Applicable
General Hygiene Conside	rations and Work Practices: Keep away from foodst	offs, beverages and feed. Immediately remove all soils	ed and contaminated clothing
Wash hands before breaks	and at end of work. Avoid contact with the eyes an	d skin.	s.
Protective Measures Duri	ng Repair and Maintenance of Contaminated Equipm	nent: Not Applicable	
Other Protective Measure:	s and Equipment: Not Applicable		

9. Physical and Chemical Characteristics

Appearance: Light yellow liquid.		Odor: Acetone od	or.
Normal Physical State: Low viscosity liquid		Melting Point: No	t Determined Boiling Point: 54.2°C (129.6°F)
Specific Gravity: ~0.9 g/cm ³		Solubility in Wate	r: Partially
Vapor Pressure (mm Hg): 233 mbar @ 20°C	Vapor Density (AIR=1): Not Applicable Vapor Pressure (mm Hg): 233 mbar @		Vapor Pressure (mm Hg): 233 mbar @ 20°C
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

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Emergency	Overview: Material is flammable	. Ivlaterial is irrita	ting to eyes, resp	ratory system and skin.	·
Toxicity Data,	Epidemiology Studies, Carcinogenicity, 1	Neurological Effects, (Genetic Effects, Repro	oductive Effects, or Structure Activity Data:	
Product is an in	Titant to skin and mucous membranes. The Sensitivation: Repeated or protonged co	ne unpolymerized prod	luct may be an irritant	to the skin in susceptible persons. On the eye the cause sensitization for persons allergic to acrylate	e product has an
methacry lates.	This product shows the following danger	s according to internal	ly approved calculation	on methods for composite materials: Irritant,	es ano
Routes of	Signs and Symptoms	Single. Repeated,	Severity (Mild,	Acute and Chronic Health Effect(s)	
Exposure		or Lifetime	Moderate, Severe)		Target
		Exposure	<u></u>		Organ(s)
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	Yes

				in breathing difficulties.	
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.	Repeated	Mcderate	Chronic inhalation may cause effects similar to those of acute inhalation. Causes respiratory tractorritation, May cause motor incoordination and speech abnormalities.	Yes
ngestion	May cause irritation of the digestive tract.	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: 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 sevrage 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	on	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.

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

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, flanunable.

International Regulations: Hazard Symbol: Flammable XI F Risk Phrases: R11 Highly Flammable, R36/37/58 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. \$16 Keep away from sources of ignition - No Smoking, \$26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S28 After contact with skin wash immediately with plerty 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.