

# MATERIAL SAFETY DATA SHEET

## SECTION I – Product/Company Identification

1.1 Product Trade Name: **PRIME & BOND® NT™**  
**Nano – Technology Light Cured Dental Adhesive**

1.2 Part (Item) Number: **634350 – 634359 All Package Configurations**

1.3 Division Name: **DENTSPLY Caulk**

1.4 Address: **38 West Clarke Avenue**  
**City State Zip: Milford DE 19963-0359**

1.5 Emergency Telephone Number: **(800) 424-9300 (Chemtrec)**

1.6 Telephone Number for Information: **(302) 422-4511**

1.7 Date Prepared: **09/01/98**

## SECTION II – Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV
Acetone	500 ppm	1188 mg/m <sup>3</sup>
Dipentaerythritol pentaacrylate phosphate	N. E.	N. E.
Urethane dimethacrylate resin	N. E.	N. E.
Polymerizable dimethacrylate resins	N. E.	N. E.

## SECTION III - Physical/Chemical Characteristics

3.1 Boiling point: 56°C (133°F)

3.2 Vapor pressure: 233 mbar @ 20°C

3.3 Vapor density: N. E.

3.4 Solubility in water: 100% Soluble

3.5 Appearance and odor: Light yellow liquid with acetone odor.

3.6 Specific Gravity: approximately 0.9 g/cm<sup>3</sup>

3.7 Melting Point: -95°C (-139°F)

3.8 Evaporation rate: N. E.

## SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): -19°C (-2°F) Closed Cup

4.2 Flammability (explosive limits): N. E.  
LEL: 2.5 vol % UEL: 13 vol %

4.3 Extinguishing media: Carbon dioxide, dry chemical, water fog, and foam, Halon.

4.4 Special fire fighting procedures: Firefighters 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 of the resins may be present.

## SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X

5.2 Conditions to avoid (stability): Visible light, high temperatures, humidity.

5.3 Incompatibility (materials to avoid): Strong oxidants, alkali metals, and halogens.

5.4 Hazardous decomposition or byproducts: Methacrylates, acrylates, and irritating gases.

5.5 Hazardous polymerization: May occur: Will not occur: X

5.6 Conditions to avoid (polymerization): Strong visible lights and elevated temperatures.

## SECTION VI - Health Hazard Data

- 6.1 Route(s) of entry:** Inhalation?: Yes Skin?: Yes Ingestion?: Possible
- 6.2 Health hazards (acute and chronic):** Eye Contact: Material may cause irritation and possible corneal damage. Avoid contact with eyes. Skin: Material may be an irritant. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response.
- 6.3 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.
- 6.4 Signs and symptoms of exposure:** Dermal redness or irritation. Severe allergic response may result in breathing difficulties.
- 6.5 Medical conditions generally aggravated by exposure:** Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylates.
- 6.6 Emergency first aid procedures:** Eyes: In case of eye contact, flush with flowing water for 15 minutes, including under the eyelids. Get prompt medical attention. Skin: Wash skin with soap and water. If irritation persists, call physician. Ingestion: If swallowed give 2 glasses of water to drink. See a physician. Inhalation: Move to fresh air. Call physician if discomfort persists or if amount was large.

## SECTION VII - Precautions for Safe Handling and Use

- 7.1 Steps to be taken in case material is released or spilled:** Absorb spilled material with inert material such as sand or vermiculite. Scoop up and dispose of in accordance with Federal, State and Local environmental regulations.
- 7.2 Waste disposal methods:** Dispose of in accordance with Federal, State and Local environmental regulations.
- 7.3 Precautions to be taken in handling and storage:** Store at ambient temperatures, avoid prolonged exposure to temperatures above 37°C(100°F). Store away from oxidizing agents.
- 7.4 Other precautions:** Store away from food and beverages. Observe normal warehouse handling procedures.

## SECTION VIII - Control Measures

- 8.1 Respiratory protection:** None required during normal use of this product. In large quantities use a self-contained breathing apparatus.
- 8.2 Ventilation:** Local exhaust is recommended. Mechanical ventilation using explosion-proof motors is acceptable.
- 8.3 Protective gloves:** Latex or rubber gloves.
- 8.4 Eye protection:** Close fitting protective goggles.
- 8.5 Other protective clothing or equipment:** Rubber apron. Eye wash, safety shower.
- 8.6 Work/Hygienic practices:** Observe normal care when working with chemicals.

### NFPA HAZARD CLASSIFICATIONS

Health	1	NFPA - National Fire Protection Association
Flammability	3	N.A. - Not Applicable
Reactivity	0	N.E. - Not Established
Specific Hazard	N. A.	

# MATERIAL SAFETY DATA SHEET

## SECTION I – Product/Company Identification

**1.1 Product Trade Name:** PRIME & BOND® Self Cure Activator  
**1.2 Part (Item) Number:** 607040,612300,63440X  
**1.3 Division Name:** DENTSPLY Caulk  
**1.4 Address:** 38 West Clarke Avenue  
City State Zip: Milford DE 19963-0359  
**1.5 Emergency Telephone Number:** (800) 424-9300 (Chemtrec)  
**1.6 Telephone Number for Information:** (302) 422-4511  
**1.7 Date Prepared:** 03/03/97 Date Revised: 04/22/98

## SECTION II – Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV
Acetone	500 ppm	1188 mg/m <sup>3</sup>
Ethyl Alcohol	1000 ppm	1880 mg/m <sup>3</sup>
Sodium p-Toluenesulfinate	N. E.	N. E.

## SECTION III - Physical/Chemical Characteristics

**3.1 Boiling point:** 56°C (133°F)      **3.6 Specific Gravity:** approximately 0.8 g/cm<sup>3</sup>  
**3.2 Vapor pressure:** N. E.      **3.7 Melting Point:** N. E.  
**3.3 Vapor density:** N. E.      **3.8 Evaporation rate:** N. E.  
**3.4 Solubility in water:** 100% Soluble  
**3.5 Appearance and odor:** Light yellow liquid with acetone and alcohol odor.

## SECTION IV - Fire and Explosion Hazard Data

**4.1 Flash point (method used):** -18°C (0°F) Closed Cup  
**4.2 Flammability (explosive limits):** N. E.  
LEL: 2.5 vol % UEL: 13 vol %  
**4.3 Extinguishing media:** Carbon dioxide, dry chemical, water fog, and foam, Halon.  
**4.4 Special fire fighting procedures:** Firefighters should wear full protective clothing including a MSHA/NIOSH approved, pressure demand, self-contained breathing apparatus.  
**4.5 Unusual fire and explosion hazards:** Keep away from fire.

## SECTION V – Reactivity Data

**5.1 Stability:**      **Unstable:**      **Stable:** X  
**5.2 Conditions to avoid (stability):** High temperatures  
**5.3 Incompatibility (materials to avoid):** Strong oxidants  
**5.4 Hazardous decomposition or byproducts:** N. E.  
**5.5 Hazardous polymerization:** **May occur:**      **Will not occur:** X  
**5.6 Conditions to avoid (polymerization):** N. A.

Print color: Black  
Paper Color: Yellow  
Size: 4 ¼" X 5 ½" (nominal)  
Fold: Thirds, horizontal

## SECTION VI - Health Hazard Data

- 6.1 Route(s) of entry:** **Inhalation?:** Yes **Skin?:** Yes **Ingestion?:** Yes
- 6.2 Health hazards (acute and chronic):** **Eye Contact:** Material may cause irritation and possible corneal damage. Avoid contact with eyes. **Skin:** Material may be an irritant. Possible nausea on prolonged exposure.
- 6.3 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.
- 6.4 Signs and symptoms of exposure:** **Eye Contact:** Material may cause irritation and possible corneal damage. Dermal redness, irritation or possible allergic reaction.
- 6.5 Medical conditions generally aggravated by exposure:** Open sores and wounds of the skin.
- 6.6 Emergency first aid procedures:** **Eyes:** In case of eye contact, flush with flowing water for 15 minutes, including under the eyelids. Get prompt medical attention. **Skin:** Wash skin with soap and water. If irritation persists, call physician. **Ingestion:** Consult a physician. **Inhalation:** Move to fresh air. Call physician if discomfort persists.

## SECTION VII - Precautions for Safe Handling and Use

- 7.1 Steps to be taken in case material is released or spilled:** Absorb spilled material with inert material such as sand or vermiculite. Scoop up and dispose of in accordance with Federal, State and Local environmental regulations.
- 7.2 Waste disposal methods:** Dispose of in accordance with Federal, State and Local environmental regulations.
- 7.3 Precautions to be taken in handling and storage:** Store at ambient temperatures, avoid prolonged exposure to temperatures above 37°C(100°F). Store away from oxidizing agents such as peroxides.
- 7.4 Other precautions:** Store away from food and beverages. Observe normal warehouse handling procedures.

## SECTION VIII - Control Measures

- 8.1 Respiratory protection:** None required during normal use of this product. In large quantities use a self-contained breathing apparatus.
- 8.2 Ventilation:** Local exhaust is recommended. Mechanical ventilation using explosion-proof motors is acceptable.
- 8.3 Protective gloves:** Latex or rubber gloves.
- 8.4 Eye protection:** Close fitting protective goggles.
- 8.5 Other protective clothing or equipment:** Rubber apron. Eye wash, safety shower.
- 8.6 Work/Hygienic practices:** Observe normal care when working with chemicals.

NFPA HAZARD CLASSIFICATIONS	
Health	1
Flammability	3
Reactivity	0
Specific Hazard	N. A.

NFPA - National Fire Protection Association  
N.A. - Not Applicable  
N.E. - Not Established

534499 (R-4/98)

# MATERIAL SAFETY DATA SHEET

## SECTION I – Product/Company Identification

1.1 Product Trade Name: **CAULK<sup>®</sup> 34% TOOTH CONDITIONER GEL**  
1.2 Part (Item) Number: **646100 646125 All Package Configurations**  
1.3 Division Name: **DENTSPLY Caulk**  
1.4 Address: **38 West Clarke Avenue**  
**City State Zip: Milford DE 19963-0359**  
1.5 Emergency Telephone Number: **(800) 424-9300 (Chemtrec)**  
1.6 Telephone Number for Information: **(302) 422-4511**  
1.7 Date Prepared: **10/02/95** Date Revised: **10/01/98**

## SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV
Phosphoric Acid	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

## SECTION III - Physical/Chemical Characteristics

3.1 Boiling point:	108°C/226°F	3.6 Specific Gravity:	1.3 g/cm <sup>3</sup>
3.2 Vapor pressure:	N. A.	3.7 Melting Point:	-35°C/-31°F
3.3 Vapor density:	N. A.	3.8 Evaporation rate:	N. A.
3.4 Solubility in water:	Yes Soluble		
3.5 Appearance and odor:	Blue gel with acrid odor.		

## SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): N. A.  
4.2 Flammability (explosive limits): N. A.  
LEL: N.E. UEL: N.E.  
4.3 Extinguishing media: N. A.  
4.4 Special fire fighting procedures: N. A.  
4.5 Unusual fire and explosion hazards: N. A.

## SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X  
5.2 Conditions to avoid (stability): Contact with metals and strong bases.  
5.3 Incompatibility (materials to avoid): Keep separated from strong bases.  
5.4 Hazardous decomposition or byproducts: Hydrogen may be released if reacted with metal.  
5.5 Hazardous polymerization: May occur: Will not occur: X  
5.6 Conditions to avoid (polymerization): Extreme heat and contact with metals and bases.

## SECTION VI - Health Hazard Data

- 6.1 Route(s) of entry: **Inhalation?: No Skin?: Yes Ingestion?: Possible**
- 6.2 Health hazards (acute and chronic): **May cause destruction of skin tissue or primary irritant dermatitis. Inhalation of vapors may cause varying degrees of damage to the affected tissue and also increased susceptibility to respiratory illness.**
- 6.3 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.
- 6.4 Signs and symptoms of exposure: **Product may irritate the eyes and skin. Eye contact: irritation and possible corneal damage. Skin contact: irritation or possible allergic response. Reddish rashes may be seen on the skin.**
- 6.5 Medical conditions generally aggravated by exposure: **Persons with pre-existing skin disorders, eye problems or impaired liver, kidney or respiratory function.**
- 6.6 Emergency first aid procedures: **Eyes: In case of eye contact, flush with flowing water for 15 minutes, including under the eyelids and get medical attention. Skin: Flush with flowing water for 15 minutes, then wash area with mild soap and water. Call physician. . Ingestion: Rinse mouth with water. Consult a physician immediately if amount was large or if irritation persists.**

## SECTION VII - Precautions for Safe Handling and Use

- 7.1 Steps to be taken in case material is released or spilled: **Neutralize material with sodium bicarbonate and spread sand or vermiculite on material. Scoop up and dispose of in accordance with Federal, State and Local environmental regulations.**
- 7.2 Waste disposal methods: **Dispose of in accordance with Federal, State and Local environmental regulations.**
- 7.3 Precautions to be taken in handling and storage: **Store at ambient temperatures, away from strong bases and metals.**
- 7.4 Other precautions: **Store away from food and beverages. Observe normal warehouse handling procedures.**

## SECTION VIII - Control Measures

- 8.1 Respiratory protection: **None required during normal use of this product. In large quantities use acid gas vapor canister respirator or self-contained breathing apparatus.**
- 8.2 Ventilation: **Local exhaust recommended.**
- 8.3 Protective gloves: **Rubber gloves.**
- 8.4 Eye protection: **Close fitting protective goggles.**
- 8.5 Other protective clothing or equipment: **Rubber apron. Eye wash, safety shower for large quantities.**
- 8.6 Work/Hygienic practices: **Observe normal care when working with chemicals.**

### NFPA HAZARD CLASSIFICATIONS

Health	2	NFPA - National Fire Protection Association
Flammability	0	N.A. - Not Applicable
Reactivity	0	N.E. - Not Established
Specific Hazard	ACID / COR	