

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**
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 ³
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/cm³

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
Flammability	3
Reactivity	0
Specific Hazard	N. A.

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