MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Identification

1.1 Product Trade Name: PRIME & BOND®NT™ including Unit Dose Package

Nano - Technology Light Cured Dental Adhesive

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

1.3 Division Name:DENTSPLY Caulk1.4 Address:38 West Clarke AvenueCity State Zip:Milford DE 19963-0359Internet Address:http://www.caulk.com1.5 Emergency Telephone Number:(800) 424-9300 (Chemtrec)

1.6 Telephone Number for Information: (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

1.7 Date Prepared: 07/24/00 **Date Revised:** 07/24/03

SECTION II – Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	CAS#	Percent
Acetone	500 ppm	$\overline{500 \text{ mg/m}^3}$	67-64-1	< 70 %
Urethane dimethacrylate resin	N. E.	N. E.	105883-40-7	< 20 %
Dipentaerythritol pentaacrylate phosphate	N. E.	N. E.	87699-25-0	< 10 %
Polymerizable dimethacrylate resins	N. E.	N. E.	2358-84-1	< 10 %
Polymerizable trimethacrylate resins	N. E.	N. E.	3290-92-4	< 10 %

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point: 56°C (133°F) 3.6 Specific Gravity: approximately 0.9 g/cm³

3.2 Vapor pressure: 233 mbar @ 20°C **3.7 Melting Point:** -95°C (-139°F)

3.3 Vapor density: N. E. 3.8 Evaporation rate: N. E.

3.4 Solubility in water: Partially

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

SECTION IV - Fire and Explosion Hazard Data

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

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

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

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: NTPP: 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.

Handling

of this product should be by trained dental healthcare professionals only.

SECTION VIII - Control Measures / Personal Protection

- **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. Handling of this product should be by trained dental healthcare professionals only.

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

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