

**1. Chemical Product and Contact Information**

**Product Name:** Nano-Bond® Dual Cure Activator  
**Material Safety Sheet Number:** 00185  
 Date of Issue: 03/12/02  
 Revision Date: 11/05/09  
**Company Identification:** Pentron Clinical  
 1717 West Collins Ave.  
 Orange, CA 92867  
 Phone: 800-551-0283  
 203-265-7397  
**Emergency Information Chemtrec:** 800-424-9300  
**Chemtrec International:** 202-483-7616

**2. Composition/Information on Ingredients**

Chemical characteristics: Methacrylate initiator in Ethanol and/or Acetone.  
 Hazardous components: Self-curing initiators dissolved in acetone.

Element	CAS #	Exposure Limit mg/m <sup>3</sup>	
		OSHA	ACGIH TLV
Acetone	67-64-1	2400	1188
Benzoyl Peroxide	94-36-0	5	5

**3. Hazard Identification**

Those people known to be allergic to methacrylate resins should avoid the use of this product.

**4. First Aid Measures**

Contact with eyes: Rinse with plenty of water and consult an ophthalmologist.  
 Contact with skin: Wash with soap and water.  
 After ingestion: Seek medical attention immediately.

**5. Fire Fighting Measures**

Extinguishing media: CO<sub>2</sub>, water, dry chemical.  
 Protective equipment: Unknown.

**6. Accidental Release Measures**

In case of spillage: Absorb with inert material. Collect in closed containers and dispose of as recommended. Avoid skin contact, wear protective equipment.  
 Waste Disposal: Dispose in accordance to Federal, State, and local regulations.

**7. Handling and Storage**

Refrigeration required. Store at 2°- 8°C. Store material away from direct sunlight, initiators, oxidizing, and/or reducing agents.  
 Over time spontaneous polymerization may occur.

**8. Exposure Controls/Personal Protection**

Respiratory protection: Face mask recommended for prolonged exposure.  
 Eye protection: OSHA approved goggles.  
 Protective gloves: Yes.

**9. Physical and Chemical Properties**

Appearance:	Form: Liquid.
	Color: Slight yellow, clear.
	Odor: Acetone and/or alcohol-like.
Melting point/melting range:	Unknown.
Boiling point:	Unknown.
Flash point:	About 101° C.
Autoigniton temperature:	360° C.
Danger of explosion:	Unlikely.
Density:	< 1.
Vapor Pressure:	184.
Viscosity:	Unknown.
pH:	Not applicable.
Solubility in/miscibility with:	
Water:	Yes.
Content of resin:	≤ 5%.
Organic solvents:	≥90%.
Water:	≤ 5%.

**10. Stability and Reactivity**

Stability:	Stable.
Conditions to avoid:	Heat, sparks & open flames.
Incompatibility:	Acids, oxidizing agent, alkalis, amines, ammonia and chlorinated compounds.

**11. Toxicological Information**

Carcinogenicity:	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
TLV:	Oral rat 5.2 ml/kg.
Primary Routes of entry:	Inhalation, skin, and eyes.

**12. Ecological Information**

Unknown.

**13. Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**14. Transport Information**

Not classified as dangerous goods.

**15. Regulatory Information**

Unknown.

**16. Other Information**

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.