

# Material Safety Data Sheet

**ibd**  
**15010 S. Main Street**  
**Gardena, CA 90248**  
**Information:** (310) 324-6680, (800) 221-2743  
**Emergency:** Chemtel (800) 255-3924

<b>Product:</b>	<b>BONDER</b>
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Date Prepared: 12/12/00  
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## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or greater, Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Methacrylated Ester Monomers		NA	NA	
Acrylated Oligomer		NA	NA	
Photoinitiator		NA	NA	
<b>Non-Hazardous Ingredients</b>				
	100			

## SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point</b> will polymerize before boiling	<b>Specific Gravity</b> (H <sub>2</sub> O = 1) ca. 1.05
<b>Vapor Pressure</b> (mm Hg and Temperature) < 1 mm Hg @ 70 °F (21°C)	<b>Melting Point</b> NA
<b>Vapor Density</b> (Air = 1) Not available	<b>Evaporation Rate</b> ( = 1) NA
<b>Solubility in Water</b> Partially	<b>Water Reactive</b> No
<b>Appearance and Odor</b> Colorless liquid; slightly sweet odor	

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point and Method Used</b> 228°F (109 °C) PMCC	<b>Auto-Ignition Temperature</b> NA	<b>Flammability Limits in Air % by Volume</b> NA	<b>LEL</b> NA	<b>UEL</b> NA
<b>Extinguisher Media:</b> Water spray, carbon dioxide and dry chemical				
<b>Special Fire Fighting Procedures:</b> Cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas.				
<b>Unusual Fire and Explosion Hazards:</b> Product may polymerize at high temperatures. Polymerization may produce sufficient heat to cause thermal decomposition and / or rupture of containers. Thermal decomposition can lead to the evolution of irritant vapors or gases and / or fires.				

NA = not available

**SECTION 4 - REACTIVITY HAZARD DATA**

<b>STABILITY</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions to Avoid:</b> Heat; organic or inorganic free radical producing initiators; exposure to sunlight, ultraviolet light or ionizing radiation; trace metals; alkaline substances.
Incompatibility (Materials to Avoid): Primary and secondary amines, acids, alkalis, free radical producing initiators.	
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide	
<b>HAZARDOUS POLYMERIZATION</b> <input checked="" type="checkbox"/> May Occur <input type="checkbox"/> Will Not Occur	<b>Conditions to Avoid:</b> Direct heat, chemical contamination, sunlight, ultraviolet light or ionizing radiation. Do not exceed 60°C for limited periods if warming is required.

**SECTION 5 - HEALTH HAZARD DATA**

<b>PRIMARY ROUTES OF ENTRY</b>	<input type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Ingestion <input type="checkbox"/> Not Hazardous	<b>Carcinogen Listed In</b>	<input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> Monograph	<input type="checkbox"/> OSHA <input checked="" type="checkbox"/> Not Listed
<b>HEALTH HAZARDS</b>	Acute: May cause skin irritation on prolonged contact. Eye irritant. Ingestion may cause irritation to the mucous membranes of mouth, throat and digestive tract. Chronic: May cause sensitization on repeated skin contact.				
<b>Signs and Symptoms of Exposure:</b> Irritated skin, eyes. Reddening or swelling of affected area.					
<b>Medical Conditions Generally Aggravated by Exposure:</b> None known.					
<b>EMERGENCY FIRST AID PROCEDURES -</b> Seek medical assistance for further treatment, observation and support if necessary.					
<b>Eye Contact:</b> Flush with large amounts of water for at least 15 minutes holding lids apart. In case of irritation, consult physician.					
<b>Skin Contact:</b> Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Get medical attention if irritation should develop.					
<b>Inhalation:</b> Remove to fresh air and consult physician.					
<b>Ingestion:</b> Do not induce vomiting. Immediately consult a physician.					

**SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

<b>Respiratory Protection (Specify Type):</b> NIOSH/MSHA approved respirator in cases of high vapor concentration.			
<b>Protective Gloves:</b> Impervious (butyl rubber, neoprene)		<b>Eye Protection:</b> Chemical splash goggles	
<b>VENTILATION TO BE USED</b>	<input checked="" type="checkbox"/> Local Exhaust <input type="checkbox"/> Other (specify)	<input type="checkbox"/> Mechanical (general)	<input type="checkbox"/> Special
<b>Other Protective Clothing and Equipment:</b> When handling larger quantities, apron and rubber boots.			
<b>Hygienic Work Practices:</b> Avoid contact with eyes, skin and mucous membranes. Otherwise follow the standards of good industrial hygiene practice.			

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES**

<b>Steps to be Taken if Material is Spilled Or Released:</b>	Stop leaks. Clean up large spills with vacuum truck. Soak up small spills with absorbent material. Wear adequate personal protective clothing and equipment.
<b>Waste Disposal Methods:</b>	Dispose in an approved chemical waste landfill or incinerate in accordance with applicable Federal, State and Local regulations.
<b>Precautions to be Taken in Handling and Storage:</b>	Store below 85 °F in well ventilated area away from direct sunlight, initiators, oxidizing and/or reducing agents. Don't fill containers completely.
<b>Other Precautions and/or Special Hazards:</b>	After expiration of storage time spontaneous polymerization may occur.

NA = not available

NFPA Rating\* Health\_\_\_\_ Flammability\_\_\_\_ Reactivity\_\_\_\_ Special\_\_\_\_

HMIS Rating\* Health\_\_\_\_ Flammability\_\_\_\_ Reactivity\_\_\_\_ Personal Protection\_\_\_\_

\* optional