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PRODUCT: 314 General Purpose Instant Superglue-Plastic Bonder  
 MSDS ID: ND2188  
 ORIG. DATE: 11/13/98  
 REV. DATE: 6/26/07  
 REV. DATE: 12/22/08  
 PREPARED BY: Chemical Safety

**SECTION I -Material Identification and Information H: 2 F: 2 R: 2 PPEC**

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Ethyl cyanoacrylate	7085-85-0	95-100	None	0.2 ppm	
Poly (methyl Methacrylate)	9011-14-7	5-10	n.e.	n.e.	
Hydroquinone	123-31-9	.1-.5	2mg/m <sup>3</sup>	1mg/m <sup>3</sup>	

All ingredients are listed on the TSCA Inventory. n.a. = not applicable / n.e. = not established

**SECTION II -Physical and Chemical Characteristics**

<b>BOILING POINT:</b>	> 300°F	<b>VOC #/gal. :</b>	0.1669
<b>VAPOR DENSITY:</b>	approx. 3.0 air = 1	<b>DENSITY OF COATING:</b>	
<b>VAPOR PRESSURE:</b>	<0.2 mmHg @ 75°F		
<b>MELTING POINT:</b>	n.a.		
<b>SPECIFIC GRAVITY:</b>	1.06 water = 1		
<b>EVAPORATION RATE:</b>	n.a.		
<b>WATER REACTIVE:</b>	Yes, polymerization		
<b>SOLUBILITY IN WATER:</b>	No, polymerized by water		
<b>APPEARANCE AND ODOR:</b>	Clear liquid with sharp irritating odor.		

**SECTION III - Fire and Explosion Hazard Data**

<b>FLASH POINT:</b>	185°F	<b>TCC</b>	
<b>AUTOIGNITION TEMPERATURE:</b>	not determined		
<b>FLAMMABILITY LIMITS % IN AIR:</b>	LEL: n.a.	<b>UEL:</b>	n.a.
<b>EXTINGUISHER MEDIA:</b>	Carbon dioxide, dry chemical or foam.		
<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	Wear a NIOSH approved self-contained breathing apparatus operated in pressure-demand or positive pressure when fighting fires.		
<b>UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:</b>	Possible exothermic reaction leading to substrate ignition and fume generation. Basic materials such as water or cloth can cause an uncontrollable exothermic reaction.		

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#### SECTION IV - Reactivity Hazard Data

**STABILITY:**        **stable:** X                                **unstable:**  
**HAZARDOUS POLYMERIZATION:**        **may occur:** X                                **will not occur:**

**CONDITIONS TO AVOID:**        Direct sunlight, moisture, and heat.

**INCOMPATIBILITY:** Polymerized by contact with water, alcohols, amines, alkalis, cotton or wool.

**HAZARDOUS DECOMPOSITION PRODUCTS:**        None

#### SECTION V - Health Hazard Data

**PRIMARY ROUTES OF ENTRY:**        **INHALATION:** X                                **INGESTION:** X                                **SKIN ABSORPTION:** X

**EYE CONTACT:**        Can cause irritation of the eyes. Can bond eyelids together. Wash thoroughly with warm water and apply gauze patch. Get medical attention. The eye will open without further action, typically in 1 to 4 days. **DO NOT try to open the eyes by physical manipulation.** Adhesion to eye proteins will disassociate over several hours. This will cause periods of weeping. Seek medical attention.

**FIRST AID:**

**SKIN CONTACT:**        Can cause irritation, bonding and drying of the skin.

Immerse bonded surface in warm soapy water. Peel or roll surface apart with the aid of a blunt instrument. Remove the adhesive from skin with warm, soapy water. DO NOT try to pull bonded surface apart as you may rip or tear your skin. Seek medical attention.

**FIRST AID:**

**INHALATION:**        Vapor may be mildly irritating.

**FIRST AID:**        This vapor is relatively harmless. Remove victim to fresh air. Seek medical attention.

**INGESTION:**        Relatively unlikely since material will solidify and adhere to the mouth.

**FIRST AID:**        Saliva will lift the material in approximately one half to 2 days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches thus preventing choking. Seek medical attention.

**CHRONIC EFFECTS:**        Not determined

**Carcinogenic:**        Not listed.

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl cyanoacrylate	> 5000 mg/kg	>2000 mg/kg	not determined
Poly (methyl Methacrylate)	not determined	not determined	not determined
Hydroquinone	not determined	not determined	not determined

**SECTION VI - Control and Protective Measures**

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator if there is a potential to exceed exposure limit(s)

**PROTECTIVE GLOVES:** Polyethylene gloves, DO NOT use cotton.

**EYE PROTECTION:** Vapors are highly irritating to eyes vapor proof goggles should be worn.

**VENTILATION TO BE USED:** **LOCAL EXHAUST:** **MECHANICAL:** **SPECIFIC:**  
**OTHER (specify):** Positive down -draft exhaust ventilation should be provided to maintain vapor concentration low.

**PROTECTIVE CLOTHING AND EQUIPMENT:** Polyethylene apron.

**HYGIENIC WORK PRACTICES:** Always wash after using material.

**SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures**

**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:**

Flood with water to polymerize material. Soak up with absorbent material.

**WASTE DISPOSAL METHODS:** Collect polymerized material and dispose of according to local, state and federal regulations.

**SAFE HANDLING AND STORAGE:** Store at or below 75°F to maximize shelf life.

**OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:**  
Avoid contact with skin and eyes. Avoid breathing vapors.

**RECOMMENDED NFPA/HMIS RATING**

**HEALTH 2**

**FLAMMABILITY 2**

**REACTIVITY 2**

**PERSONAL PROTECTION C**

note: ratings may differ according to application, environment, and physical state.

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NOTES:

**SECTION 313 SUPPLIER NOTIFICATION**

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
123-31-9	Hydroquinone	.1-0.5

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

<u>Material</u>	<u>CAS #</u>	<u>Concentration %</u>	<u>Cancer Agent</u>	<u>Reproductive Toxin</u>	<u>cancer agent &amp; Reproductive Toxin</u>
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