

Issued: 10/2/03

**MATERIAL SAFETY DATA SHEET**

Emergency 24 hour phone number: Chem-Tel (800) 255-3924

CA PLUS Black Toughened B300, 1000, 4000 and 5000 cps

**1. General Information: Chemical Name: Cyanoacrylate****General Description: Super Glue, Instant Adhesive****DOT: Ground: Unrestricted, combustible liquid****Air: Unrestricted, combustible Liquid****NFPA Code: Health 2 Fire 2 Reactivity 2****HMIS Code: Health 2 Flammability 2 Reactivity 2****2. Composition:**

<b>Ingredient:</b>	<b>CAS #</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>%Composition</b>
Ethyl-2-Cyanoacrylate	7085-85-0	N/A	0.2ppm (TWA)	85-90
Poly (methyl methacrylate)	9011-14-7	N/A	N/A	5-10
Hydroquinone	123-31-9	2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA	0.1-0.5
Co-polymer Toughener	Proprietary	N/A	N/A	5-10

**3. Hazards Identification:****Label Precautionary Statements: IRRITANT. Irritating to eyes, skin and respiratory system. Cyanoacrylate. Danger bonds skin and eyes in seconds.****Primary routes of entry: None known.****Symptoms of exposure: Vapor highly irritating to eyes and breathing. Prolonged exposure to excessive amounts may lead to non-allergic asthma.****Medical Conditions aggravated by exposure: No applicable information found.****(Ethyl cyanoacrylate is not listed as a carcinogen in: the US National Toxicology Program Annual Reports on carcinogens, the UK EH40/98 or by the International Agency for Research on Cancer.)****4. First Aid Measures:****Ingestion: Ingestion not likely to occur due to polymerization.****Inhalation: Remove to fresh air, if symptoms continue seek medical advice.****Skin contact: Soak in warm soapy water, do not pry apart.****Eye contact: Flush with copious amounts of warm water, seek immediate medical help.****5. Fire Fighting Measures:****Flash Point > 175°F (81°C)****Extinguishing media: Water spray, foam, dry chemical or carbon dioxide.****Special fire fighting procedures: Fire fighters should wear breathing apparatus.****Unusual fire/explosion hazards: No applicable information available.****Hazardous thermal decomposition products: Irritating organic vapors may be formed.****6. Accidental Release Measures: Ventilate area of spill, flood slowly with water to polymerise, Absorb with sand/earth and dispose to chemical waste according to local regulations.****7. Handling/Storage: When using large volumes ensure that operational area is well ventilated. Store between 40° - 72°F (5° - 25°C) Avoid skin contact and inhalation of vapors.**

8. **Exposure Control and Personal Protection:** Eye: Safety goggles/glasses. Respiratory Protection: Appropriate Filter Mask if large volumes are being used. Skin Protection: Nitrile/polyethylene gloves and clothing protection. Ventilation: Good air movement.
9. **Physical and Chemical Properties:** Form: Liquid  
Color: Black  
Odor: Sharp, irritating  
Solubility in water: Immiscible in water  
Boiling point: >210°F (>100°C)  
Specific Gravity: 1.1  
Vapor pressure: <0.5 mm Hg  
Flash Point: >175°F (>81°C)
10. **Reactivity and Stability:** Stability: Stable Hazardous polymerization: Will not occur.  
Incompatibility: Water and any basic substance. Conditions to Avoid: N/A Hazardous decomposition: N/A.
11. **Toxicological Information:** Estimated oral LD50: >5000 mg kg.  
Estimated dermal LD50: >2000 mg kg.
12. **Disposal Considerations:** Polymerize and incinerate or solid adhesive can be land filled in accordance with all applicable federal, state and local environmental regulations.
13. **Regulatory Information:** CA Proposition 65: No Prop 65 Chemicals known to be present.
14. **Other Precautions:** Avoid contact with skin, eyes and clothing. Keep out of reach of children! See supplement and read instructions carefully.

**SUPPLEMENT: Skin Adhesion:** First immerse the bonded surface in warm soapy water. Peel or roll the surface apart with the aid of a blunt edge. (pencil, spoon handle, etc.), then remove the adhesive from the skin with soap and water. **DO NOT** try to pull surfaces apart with a direct opposing action. **Eyelid to eyelid or eyeball adhesion:** In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in one to four days. There will be no residual damage. **DO NOT** try to open eyes by manipulation. Let the natural cleansing action of the eye take place. **Adhesive on the eyeball:** Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of tearing until clearance is achieved. The adhesive residue will flush out of the eye normally in a matter of hours, even with gross contamination. **Mouth:** If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with a direct opposing action. It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in ½ to 2 days. **Burns:** Cyanoacrylates give off heat on solidification. In rare cases a large amount will increase the temperature enough to cause a burn. Should a burn occur, it should be treated using normal medical procedures.