

MATERIAL SAFETY DATA SHEET

Emergency phone number: 336-764-5232

Fast Cure (Cured Through Volume) Cyanoacrylates: F005, F030, F100, F1000, F1500, F2000, F3200, F4000 and F Gel

- 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 1
HMIS Code: Health 2 Flammability 2 Reactivity 1
- 2. Composition:**

| <u>Ingredient:</u> | <u>CAS #</u> | <u>%</u> | <u>TLV(OSHA)</u> |
|--------------------------|--------------|----------|-------------------------|
| Ethyl Cyanoacrylate | 7085-85-0 | 90-99 | None |
| Poly Methyl Methacrylate | 9011-14-7 | 1-10 | None |
| Hydroquinone | 123-31-9 | 0.1-0.5 | 2 mg/m ³ TWA |
- 3. Chemical/Physical Properties:** Appearance: Colorless Liquid
Odor: Slightly Pungent
Specific Gravity: 1.05
Boiling Point: Greater than 150°F
Solubility in water: Polymerized by water
Vapor Density: Greater than one
- 4. Flammability and Explosive Properties:**
Flash Point: 185° - 200°F
Flammability limits in air: Lower N.D. Upper N.D.
Extinguishing agents: Carbon Dioxide, foam, dry chemical
Hazardous products formed by fire or thermal decomposition:
Irritating organic vapors
Unusual fire and explosion hazards: Do not use cloth to wipe up
Spills. Use water on spills to polymerize and then scrape up residue.
Special fire fighting procedures: Wear self contained breathing apparatus and
protective clothing to prevent contact with skin, eyes, or inhalation of vapors.
Over exposure to decomposition of products may be a health hazard
- 5. Spill or leak and disposal procedures:** Steps to be taken if material is spilled or leaks:
Flood area with water to polymerize (cure). Soak up with an inert absorbent. Recommended
methods of disposal: Polymerize as above. Incinerate, or solid adhesive can be land filled in
accordance with all applicable federal, state and local environmental regulations.

6. **Storage and Handling:** Storage: Store out of direct sunlight at or below 72°F to preserve shelf life. Handling: Avoid contact with eyes and skin. Avoid breathing vapor.
7. **Reactivity Data:** Stability: Stable. Hazardous polymerization: Will not occur. Hazardous decomposition (non thermal): None. Incompatibility: Polymerized by contact with water, alcohols, amines, alkalines.
8. **Emergency treatment procedures:** Ingestion: See supplement. Inhalation: Remove to fresh air. Treat symptomatically. Skin Contact: See supplement. Eye contact: See supplement. Ventilation: Local exhaust, cross air movement. Vent downwards, as vapors are heavier than air. Protective gloves: polyethylene. Eye protection: Safety glasses. Other: Eye bath and washing Station nearby.
9. **Health Hazard Data:** Toxicity: Bonds skin rapidly and strongly. Skin and eye Irritant. Estimated oral LD50 greater than 5,000 mg/kg. Estimated dermal LD50 greater than 2,000 mg/kg. Primary routes of entry: Not available. Signs and symptoms of overexposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce allergic reactions with asthma like symptoms in sensitive individuals.
10. **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.