

## MATERIAL SAFETY DATA SHEET

### 1. COMPANY INFORMATION / CHEMICAL PRODUCT

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**Product Name: Liquid Adhesive (CA301 - CA321 - CA324)**  
**Description: Cyanoacrylate Adhesive, Instant Adhesive, Super Glue**

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	%
Ethyl cyanoacrylate	7085-85-0	90-99
Poly (methyl methacrylate)	9011-14-7	1. - 10
Hydroquinone	123-31-9	0.1 - 0.5

#### INGREDIENTS THAT HAVE EXPOSURE LIMITS

Exposure Limits (TWA) Ingredients	ACGIH (TVL)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	0.2ppm TWA	None	
Hydroquinone	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL
Exposure Limits (STEL)			
Ethyl cyanoacrylate	(4ppm) (18 mg/m3)	(4ppm) (16 mg/m3)	

### 3. HAZARDS IDENTIFICATION

**Toxicity:** Skin contact may cause burns.  
 Bonds skin rapidly and strongly.  
 Skin and eye irritant.  
 Estimated oral LD 50 more than 5000mg/kg.  
 Estimated dermal LD 50 more than 2000mg/kg.

**Primary Routes of Entry:** None known

**Symptoms of Exposure:** Vapor is irritating to mucous membranes when above the TLV.  
 Prolonged and repeated overexposure to vapours may produce allergic reactions with asma like symptoms in sensitive individuals.

**Existing conditions aggravated by Exposure:** none known.

**Organs and Other Health Effects:**

		Carcinogen		
		NTP	IARC	OSHA
Ethyl cyanoacrylate	ALLG, IRR, RES	No	No	No
Poly (methyl methacrylate)	IRR	No	N/A	No
Hydroquinone	AC3, BLO, BNW, CNS,EYE IMM, IRR, LIV, MUT, SKI, THY	No	N/A	No

**4. FIRST AID MEASURES**

INGESTION: Ingestion is not likely.  
INHALATION: Remove to fresh air. If symptoms persist, obtain medical attention.  
SKIN CONTACT: Soak in warm water.  
EYE CONTACT: Flush with water.

Personal Protection:

Eyes: Safety glasses or goggles mandatory.  
Skin: Polyethylene gloves and/or aprons. Do not use cotton/cloth type gloves.  
Ventilation: Positive down draft exhaust ventilation should be provided to maintain vapor concentrations below TLV.

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**5. FIRE FIGHTING MEASURES**

Flashpoint: 160 - 200F (TCC)  
Extinguishing Agents: Carbon Dioxide, Foam, dry chemical.  
Special fire fighting procedure: Not Available.  
Hazardous Products formed by fire: Irritating organic vapors.  
Unusual fire or explosion Hazards: None  
Explosive Limits: (% by volume in air) Lower Not Available.  
(% by volume in air) Upper Not Available.

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**6. ACCIDENTAL RELEASE MEASURES**

MEASURES TO TAKE IN CASE OF LEAKAGE OR SPILLS: If a spill or leak occurs flood area with water to polymerize (cure) the material. Soak up with an inert absorbent.

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**7. HANDLING AND STORAGE**

STORAGE: Store below 72 F.  
HANDLING: Avoid contact with skin and eyes. Avoid breathing vapors.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eyes: Safety glasses or goggles mandatory.  
Skin: Polyethylene gloves and/or aprons. Do not use cotton/cloth type gloves.  
Ventilation: Positive down draft exhaust ventilation should be provided to maintain vapor concentrations below TLV.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear liquid.  
ODOR: Sharp Irritating.  
BOILING POINT: More than 300F  
SOLUBILITY IN WATER: Polymerized  
SPECIFIC GRAVITY: 1.05 AT 75F  
VAPOR PRESSURE: Less than 0.2mm at 75F  
VAPOR DENSITY: 3  
VOC 87.1%; 914.55 g/l (EPA Method 24)



## **10. STABILITY AND REACTIVITY**

STABILITY: Stable  
 HAZARDOUS POLYMERIZATION: Will not occur.  
 INCOMPATIBILITY: Polymerized by contact with water, alcohols, amines, alkalies.  
 CONDITION TO AVOID: Not available.  
 HAZARDOUS DECOMPOSITION PRODUCTS (non thermal): None

## **11. TOXICOLOGICAL INFORMATION**

**REFER TO SECTION 3**

## **12. ECOLOGICAL INFORMATION**

No ecological information available

## **13. DISPOSAL CONSIDERATIONS**

Recommended methods of disposal:  
 Polymerize as indicated in Section 6. Incinerate following EPA and local regulations.  
 EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material.

## **14. TRANSPORT INFORMATION**

DOT (49 CFR 172)  
 Domestic Ground Transport  
 Proper Shipping Name: Unrestricted (Not more than 450 liters)  
 Combustible liquids, n.o.s. (Cyanoacrylate) (More than 450 liters)

Hazard class or Division: Unrestricted (Not more than 450 liters)

Identification Number: None (Not more than one pint)  
 NA 1993 (More than 450 liters)

Marine Pollutant: None

IATA  
 Proper Shipping Name: Unrestricted (Not more than one pint)  
 Aviation regulated liquid, n.o.s. (cyanoacrylate) (More than 1 pint)

Class or Division: Unrestricted (Not more than one pint)  
 Class 9 (More than 1 pint)

UN or ID Number: None (Not more than 1 pint)  
 UN 3334 More than 1 pint)

## **15. REGULATORY INFORMATION**

CA Proposition 65: No Prop 65 Chemicals known to be present.

## **16. OTHER INFORMATION**

### Estimated NFPA (R) CODE:

Health Hazard:	2
Fire Hazard:	2
Reactivity Hazard:	1
Specific Hazard:	Does not Apply

### Estimated HMIS (R) CODE:

Health Hazard:	2
Fire Hazard:	2
Reactivity Hazard:	1
Specific Hazard:	See Section 8 of this MSDS

### **NOTICE:**

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, PROTECHNOLOGY MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREFORE, PROTECHNOLOGY ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

### **BE SAFE:**

**READ OUR PRODUCT SAFETY INFORMATION AND PASS IT ON**





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