

GC Electronics
1801 Morgan Street
Rockford, IL 61102
Phone: (815) 968-9661
Fax: (815) 968-9731
www.gcelectronics.com

Product Name: GC Super Adhesive
MSDS Number: 128
Revision Date: 12/10/03
Supersedes Date: 8/29/03

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Cyanoacrylate Adhesive
Product Name: **GC Super Adhesive**
Part Number(s): **10-128**

Emergency Contact: Chemtrec
Phone: (800) 424-9300

Section 1 – Identification of Product

Common Name: GC Super Adhesive
Chemical Name: Cyanoacrylate Adhesive, Instant Adhesive, Super Glue
Chemical Family: Adhesives

HMIS Rating		NFPA Hazard		Least	0
Health	2	Health	2	Slight	1
Flammability	2	Flammability	2	Moderate	2
Reactivity	1	Reactivity	1	High	3
Personal Protection	D	Specific	Does not apply	Extreme	4

Gloves, Safety Glasses, Apron D

Section 2 – Hazardous Ingredients

Hazardous Components	Cas #	% Wt	Exposure Limits (TWA)		
			ACGIH (TLV)	OSHA (PEL)	Other
Ethyl Cyanoacrylate	7085-85-0	93-100	0.2ppm TWA	None	None
Poly (Methyl Methacrylate)	9011-14-7	1-10			
Hydroquinone	12-31-9	0.1-0.5	2 mg/m ³ TWA	2 mg/m ³ TWA	2 mg/m ³ TWA

Ethyl Cyanonacrylate	Exposure Limits (STEL)	
	(4ppm)	(4ppm)
	(18mg/m ³)	(16mg/m ³)

Hydroquinone	Exposure Limits (STEL)
	4mg/m ³

Section 3 – Physical Data

Appearance: Clear liquid
Odor: Sharp, irritating
Boiling Point: More than 300°F
Solubility in Water: Polymerized

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Specific Gravity: 1.05 at 75°F
Vapor Pressure: Less than 0.2mm at 75°F
Vapor Density: 3
VOC: 87.1%; 914.55 g/l (EPA Method 24)

Section 4 – Fire and Explosion Hazard Data

Flash Point: 160°F - 200°F (method TCC)
Extinguishing Agents: Carbon dioxide, foam, dry chemical.
Special Fire Fighting Procedure: Not available.
Hazardous Products Formed by Fire or Thermal Decomposition: 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

Section 5 – Health Hazard Data

Toxicity: Skin contact may cause burns. Bonds skin rapidly. Skin and eye irritant. Estimated oral LD 50 more than 5000 mg/kg. Estimated dermal LD 50 more than 2000 mg/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 vapors may produce allergic reactions with asthma like symptoms in sensitive individuals.

Existing Conditions Aggravated by Exposure: None known.

Target Organs and Other Health Effects:

		Carcinogens		
		NTP	IARC	OSHA
Ethyl Cyanoacrylate:	Allergen, irritant, respiratory	No	No	No
Poly (methyl methacrylate):	Irritant	No	N/A	No
Hydroquinone	ACGIH animal carcinogen, blood, Bone marrow, central nervous system, eye, immune system, irritant, liver, skin, mutagen, thyroid.	No	N/A	No

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 concentration levels below TLV.
First Aid Procedures: Skin:	First immerse the bonded surface in warm soapy water. Peel or roll the surface apart with the aid of a blunt edge such as a pencil, spoon handle, etc. Do this gradually, in a gentle fashion, with care not to be too forceful. Then remove the adhesive from the skin with soap and water. DO NOT try to pull surface apart with a direct opposing action.
Eye:	In the event that eyelids are stuck together or bonded to the eyeball wash thoroughly with warm water and apply 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.
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.
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 the lips apart. Do not try to pull the lips apart with a direct opposing action. It is almost impossible to swallow a cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in 12 to 48 hours.
Burns:	Cyanoacrylates give off heat on solidification. In rare cases a large amount will increase in temperature enough to cause a burn. Should this occur, treat using normal medical procedures.

Section 6 – Reactivity Data

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

Section 7 – Spill or Leak Procedures

If a spill or leak occurs flood area with water to polymerize (cure) the material. Soak up with an inert absorbent.

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.

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Section 8 – Special Protection Information

Note: See Section 5 for emergency procedures and additional first aid information.
(See Section 5 for exposure limit information.)
Eyes: Chemical safety glasses or goggles.
Skin: Polyethylene gloves and aprons. **Do not** use cotton or cloth materials.
Ventilation: Positive down draft exhaust ventilation should be provided to maintain vapor concentration below TLV.

Section 9 – Special Precautions

Safe Storage: Store below 72°F
Handling: Avoid contact with skin and eyes. Avoid breathing vapors.

Section 10 – Regulatory Information

Target Organs and Other Health Effects:

		Carcinogens		
		NTP	IARC	OSHA
Ethyl Cyanoacrylate:	Allergen, irritant, respiratory	No	No	No
Poly (methyl methacrylate):	Irritant	No	N/A	No
Hydroquinone	ACGIH animal carcinogen, blood, Bone marrow, central nervous system, eye, immune system, irritant, liver, skin, mutagen, thyroid.	No	N/A	No

No ecological data available.

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.

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted

Hazard Class or Division: Unrestricted

Identification Number: None

Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted

Class or Division: Unrestricted

UN or ID Number: None

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

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