

MATERIAL SAFETY DATA SHEET

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High Temperature HT5, HT30, HT100, HT500, HT1000, HT1500, HT2400 & HT4000

HMIS: Health 2 Flammability 2 Reactivity 1
NFPA Health 2 Fire Hazard 2 Reactivity 1

1. CHEMICAL PRODUCT IDENTIFICATION:

Product Name: High Temperature Series: 5, 30, 100, 500, 1000, 1500, 2400 & 4000 cps
Description: Cyanoacrylate adhesive, Instant adhesive, super glue.

2. COMPOSITION:

	<u>CAS#</u>	<u>%</u>
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:	ACGIH	OSHA	OTHER
Exposure limits (TWA)	(TLV)	(PEL)	
Ingredients:			
Ethyl Cyanoacrylate	0.2 ppm TWA	None	None
Hydroquinone	2mg/m ³ TWA	2mg/m ³ TWA	2mg/m ³ TWA 4mg/m ³ STEL
Exposure Limits (STEL)			
Ethyl Cyanoacrylate	(4ppm) (18mg/m ³)	(4ppm) (18mg/m ³)	

3. HAZARDS IDENTIFICATIONS:

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 2,000 mg/kg.

Primary Routes of Entry: None Known

Symptoms of Exposure: Vapors are irritating to mucous membranes when above TLV. Prolonged and repeated overexposure to vapor may produce allergic reactions with asthma like symptoms in sensitive individuals.

Existing conditions aggravated by over exposure: None Known

Target Organs and other Health Effects:

		<u>CARCIINOGENS</u>		
		NTP	LARC	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

4. FIRST AID MEASURES AND PERSONAL PROTECTION:

Ingestion: Ingestion is not likely

Inhalation: Remove to fresh air. If systems persist, obtain medical attention.

Skin Contact: Soak in warm water.

Eye Contact: Flush with water.

Personnel Protection:

Eyes: Chemical Safety glasses or goggles

Skin: Polyethylene gloves and/or aprons. Do not use cotton/cloth type gloves.

Ventilation: Positive draft exhaust ventilation should be provided to maintain vapor concentrations levels below TLV.

5. FIRE FIGHTING MEASURES:

Flash Point:	160-200°F (Method TCC)
Extinguishing agents:	Carbon dioxide, foam, dry chemical.
Special fire fighting procedures:	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.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

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

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

(NOTE: See section 2 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 concentrations below TLV.

9) PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Clear liquid.
Odor:	Sharp, irritating.
Boiling point:	More than 300°F
Solubility in water:	polymerized.
Specific Gravity:	1.05 @ 75°F
Vapor Pressure:	Less than 0.2 mm @ 75°F
Vapor Density:	3
VOC	87.1%; 914.55g/l (EPA Method 24)

10. STABILITY AND REACTIVITY:

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Incompatibility:	Polymerized by contact with water, alcohol, amines, alkalies.
Conditions to avoid:	Not available.
Hazardous decomposition products: (Non-thermal);	None.

11. TOXICOLOGICAL INFORMATION:

(Refer to Section 3)

12. ECOLOGICAL INFORMATION:

(No data available.)

13. DISPOSAL CONSIDERATION:

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. TRANSPORTATION INFORMATION:

DOT (49CFR 172)	
Domestic Ground Transport	
Proper Shipping Name:	Unrestricted (Not more than 450 liters): Combustible liquids, n.o.s. (Cyanoacrylate) (More than 450 liters)
Hazardous Class or Division:	Unrestricted (Not more than 450 liters.)
Identification Number:	None (not more than 450 liters.) NA 1993 (More than 450 liters.)
Marine Pollutant:	None.
IATA	Unrestricted (Not more than 1 pint) Aviation regulated liquid. N.o.s.
Proper Shipping Name:	(Cyanoacrylate) (More than 1 pint)
Class or Division	Unrestricted (not more than 1 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.