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MATERIAL SAFETY DATA SHEETS USP VI MEDICAL GRADE CYANOACRYLATES

EMERGENCY PHONE: 336-764-5232

HMIS:	HEALTH 2	FLAMMABILITY 2	REACTIVITY 1
NFPA:	HEALTH 2	FIRE HAZARD 2	REACTIVITY 1

1. CHEMICAL PRODUCT IDENTIFICATION:

Product Name: MG5, MG30, MG500, MG1000, MG1500, MG2400, MG3200, MG4000
Description: Cyanoacrylate adhesive, Instant adhesive, Super Glue

2. COMPOSITION:

	CAS #	%
Ethyl Cyanoacrylate:	7085-85-0	80-95
Poly Methylacrylate	9011-14-7	1-10%
Hydroquinone	12-31-9	.01-.05%

Ingredients that have exposure limits:

	ACGIH (TLV)	OSHA (PEL)	OTHER
Exposure Limits (TWA)			
Ingredients:			
Ethyl Cyanoacrylate	0.2 ppm TWA	None	None
Hydroquinone	2 mg/m ³ TWA	2 mg/m ³ TWA	2 mg/m ³ TWA
Exposure Limits (STEL)			4 mg/m ³ STEL
Ethyl Cyanoacrylate	(4ppm)	(4ppm)	

3. HAZARDS IDENTIFICATIONS:

Toxicity: Skin contact may cause burns. Bonds skin rapidly. Skin and eye Irritant. Estimated oral LD 50 more than 5,000 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 vapors may produce Allergic reactions with asthma like symptoms in sensitive individuals.

Existing conditions: aggravated by exposure: None known

Target organs & other health effects:

	NTP	Carcinogens LARC	OSHA
Ethyl Cyanoacrylate Allergen, irritant, respiratory	No	No	No
Poly Methyl methacrylate Irritant	No	No	No
Hydroquinone Bone marrow, central nervous System, eye, immune system, Irritant, liver, skin, mutagen, thyroid.	No	No	No

4. FIRST AID MEASURES AND PERSONAL PROTECTION:

NOTE: See supplemental page or emergency procedures and additional First Aid information.

Ingestion:	Ingestion is not likely
Inhalation:	Remove to fresh air. If symptoms persist, obtain medical attention
Skin contact:	Soak in warm water
Personnel Protection:	
Eyes:	Chemical Safety Glasses
Skin:	Polyethylene gloves and/or aprons. DO NOT use cotton/cloth gloves
Ventilation:	Positive draft exhaust ventilation should be provided to maintain vapor concentration 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 a spill or leak occurs, flood area with water to polymerize (cure) 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 supplemental page for emergency procedures and additional First Aid information.
See section 2 for exposure limits information.

Eyes:	Chemical safety glasses or goggles
Skin:	Polyethylene gloves and aprons. DO NOT use cotton or cloth material.
Ventilation:	Positive down draft exhaust ventilation should be provided to maintain Concentrations below TVL.

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:	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:

(See section 3)

12. ECOLOGICAL INFORMATION:

No data 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. TRANSPORTATION INFORMATION:

DOT (49CFR 172) Domestic Ground Transport Proper Shipping Name “Unrestricted”

Hazard class or Division: Unrestricted

Identification Number: None

Marine Pollutant: None

IATA – Proper Shipping Name: None

Class or Division: None

UN or ID Number: None

15. REGULATORY INFORMATION:

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