Material Safety Data Sheet

Black100 – Toughened Cyanoacrylate Adhesive

ADHESIVE®

R&D

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1. Product Identification

Product Name	Black100
Product	Toughened Cyanoacrylate Adhesive

2. Composition

Ingredients	CAS#	WT%
Ethyl Cyanoacrylate	7085-85-0	90-99
Poly Methyl Methacrylate	9011-14-7	1-10
Proprietary Additive	Proprietary	4-6
Hydroquinone	12-31-9	.1-1.0

Ingredients that Have Exposure Limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	Other
Ethyl Cyanoacrylate	0.2 ppmTWA	None	None
Hydroqinone	2mg/m(TWA	2mg/m3TWA	2mg/m3TWA 4mg/m3STEL
Exposure Limits (STEL)			
Ethyl Cyanoacrylate	(4ppm) (18mg/m3)	(4ppm) (16mg/m3)	

3. Hazards Identification

Toxicity	Skin contact may cause burns. Bonds skin rapidly. Skin and eye irritant. Estimated oral LD more than 5,000mg/kg. Estimated dermal LD 50 more than 2,000mg/kg.
Primary Routes of Entry	None known
Symptoms of Exposure	Vapor is irritating to the 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 and Other Health Effects

		Carcinogens NTP	IARC	OSHA
Methyl 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

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.
Eye contact	Flush with water.

Personnel protection

Eye	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 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 Decomp	Irritating organic vapors.
Unusual Fire or Explosion Hazards	None

5. Fire Fighting Measures (cont.)

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) 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 supplemental page for emergency and additional First Aid information.
(see number **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 concentration below TVL.

9. Physical and Chemical Properties

Appearance	Black liquid	
Odor	Sharp, irritating	
Boiling Point	More than 300°F	
Solubility in Water	Polymerized	
Specific Gravity	1.05 @ 75°F	
Vapor Pressure	Less than .2 mm @ 75°F	
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, alcohol, amines, alkalies.
Conditions to Avoid	Not available
Hazardous Decomposition Products	(Non-thermal); None

11. Toxicological Information

Refer to number **3.**

12. Ecological Information

No data available.

13. Disposal Considerations

Recommended methods of disposal	Polymerize as indicated in number **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.(Cyanoacrylates) (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 1 pint) Aviation regulated liquid, n.o.s., (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