

Material Safety Data Sheet

Black400 – Toughened Cyanoacrylate Adhesive

ADHESIVE®



TELEPHONE 715-832-4557

1. Product Identification

Product Name Black400
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
Hydroquinone	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

		NTP	Carcinogens 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, alkalis.
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
--------------------	--

We believe the information contained herein is current and accurate as of this date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of this product are not under the control of ADHESIVE R&D®, Inc. or its agents or distributors, it is the user's obligation to determine the conditions of safe use of this product. The buyer should conduct its own tests of this product before use to determine proper preparation technique and suitability for proposed application. ADHESIVE R&D®, Inc. warrants that the product conforms with ADHESIVE R&D®'s written specifications, and is free from defects and disclaims all other warranties, expressed or implied and is not responsible for loss claim of damages resulting from the use of its products.

Rev 01/03