

# Material Safety Data Sheet

## EL45 – Ethyl Cyanoacrylate Adhesive

**ADHESIVE®**



TELEPHONE 715-832-4557

### 1. Product Identification

**Product Name** EL45  
**Product** Ethyl 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
<b>Exposure Limits (STEL)</b> 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
<b>Ethyl Cyanoacrylate</b>	Allergen, irritant, respiratory	No	No	No
<b>Poly (methyl Methacrylate)</b>	Irritant	No	N/A	No
<b>Hydroquinone</b>	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** 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 .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

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