# Material Safety Data Sheet

## EL100 – Ethyl Cyanoacrylate Adhesive

**ADHESIVE®**

R&D

**TELEPHONE 715-832-4557**

### 1. Product Identification

| | |
|---|---|
| **Product Name** | EL100 |
| **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 |
| Hydroqinone | 2mg/m(TWA | 2mg/m3TWA | 2mg/m3TWA<br>4mg/m3STEL |
| **Exposure Limits (STEL)** | | | |
| Ethyl Cyanoacrylate | (4ppm)<br>(18mg/m3) | (4ppm)<br>(16mg/m3) | |

### 3. Hazards Identification

| | |
|---|---|
| **Toxicity** | Skin contact may cause burns. Bonds skin rapidly.<br>Skin and eye irritant.<br>Estimated oral LD more than 5,000mg/kg.<br>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 |
|---|---|---|---|---|
| **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

***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.<br>**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)<br>NA 1993 (more than 450 liters) |
| **Marine Pollutant** | None |

**IATA**

| | |
|---|---|
| **Proper Shipping Name** | Unrestricted (not more than 1 pint)<br>Aviation regulated liquid, n.o.s., (Cyanoacrylate) (more than 1 pint) |
| **Class or Division** | Unrestricted (not more than 1 pint)<br>Class 9 (more than 1 pint) |
| **UN or ID Number** | None (not more than 1 pint)<br>UN 3334 (more than 1 pint) |

## 15. Regulatory Information

**CA Proposition 65:** No Prop 65 chemicals known to be present

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