

Material Safety Data Sheet

RT5000 – Rubber Toughened Cyanoacrylate Adhesive

ADHESIVE®



TELEPHONE 715-832-4557

1. Product Identification

Product Name RT5000
Product Rubber 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 | 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, 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

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