



Material Safety Data Sheet

1- Chemical Product and Company Identification:

Product Name: **Extreme 1002**
Product Type: Cyanoacrylate Ester

24-HOUR EMERGENCY PHONE;
INFOTRAC: 1-800-535-5053

2- Composition/Information on Ingredients:

| Hazardous Component | CAS Number | % |
|--------------------------|------------|-------|
| Ethyl-2 Cyanoacrylate | 7085-85-0 | 80-95 |
| Poly Methyl Methacrylate | 9011-14-7 | 5-10 |

| Exposure Limits (TWA) | ACGIH (TLV) | OSHA (PEL) | OTHER |
|-----------------------|-------------|------------|-------|
| Ethyl-2 Cyanoacrylate | 0.2 ppm | None | None |

Exposure Limits (STEL)

3- Hazards Identification:

Toxicity: Skin contact may cause burns. Bonds rapidly and strongly to skin. Skin and eye irritant. Estimated oral LD50 more than 5000mg/kg.

Primary routes of Entry: Inhalation

Signs of exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

4- First Aid Measures:

Ingestion: Ingestion is unlikely. See supplemental section for emergency action.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin contact: Soak in warm water. See supplemental section for emergency action.
Eye contact: Flush with warm water. See supplemental section for emergency action.

5- Fire Fighting Measures:

Flash Point: 150-200°F, Tag Closed Cup
Extinguishing Media: Foam, Dry Chemical or Carbon Dioxide
Unusual Fire or Explosion Hazards: Vapors exceeding the flash point will ignite when exposed to flame.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

6-Accidental Release Measures

Steps to be taken in case of spill or leak: Flood with water to polymerize. Soak up with inert absorbent.

7- Handling and Storage:

Safe storage: Store away from heat and direct sunlight to maximize shelf life. Store inside in a dry location.
Handling: Keep container tightly closed. Avoid contact with skin. Avoid breathing vapors.

8- Protective Equipment:

Ventilation: Local exhaust ventilation recommended to maintain vapor level below TLV.
Respiratory protection: Not applicable with good local exhaust.
Skin: Polyethylene or non reactive gloves. Do not use cotton or wool. See supplemental page for more information.
Eye protection: Safety glasses or goggles with side shields.

9- Physical and Chemical Properties:

Appearance: Clear liquid
Odor: Sharp, pungent
Boiling Point: Greater than 300°F
Melting Point: Not Determined
Vapor Pressure: Less than 0.2mm Hg @20C
Vapor Density: Approximately 3 (Air =1)
Evaporation rate: Not applicable
Specific Gravity: 1.06 @ 20°C
Odor Threshold: 1-2 ppm
Solubility in water: Negligible. Polymerized by water.
Partition coefficient: Not determined
Volatile Organic Compound:
(SCQAMD Methoc 316B) less than 20 grams per liter (estimated)

10- Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Incompatibility: Polymerized by contact with water, alcohols, amines, and alkalis.

11- Toxicological Information

Acute oral LD50 >5000mg/kg (rat) (estimated). Acute dermal LD50 >2000mg/kg (rabbit) (estimated).

12-Ecological Information

No Data

13- Disposal Considerations:

Disposal procedures: Dispose of in accordance with State, Federal and local regulations.

14- Transportation Information:

Domestic Ground Transport:

Proper shipping name: Combustible liquid, n.o.s. (more than 450 liters)
Hazard class or division: Combustible liquid (more than 450 liters)
Identification number: NA 1993 (More than 450 liters)
Exceptions: Unrestricted under 450 liters.
Marine pollutant: No

International Air Transportation (ICAO/IATA):

Proper shipping name: Aviation regulation liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division: 9
Identification number: UN 3334
Packing Group: None
Exceptions: Unrestricted under 500 ml.

Water transportaion (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Exceptions: None
Marine pollutant: None

15- Regulatory Information

TSCA 8b Inventory status: All components are listed or exempt
CERCLA/SARA Section 302 EHS: None
CERCLA/SARA Section 311/312: Immediate health hazard, Delayed health hazard, Fire, Reactive
CERCLA/SARA Section 313: None
CA Proposition 65: None
Canada DSL/NDSL: All components are listed or exempt
WHMIS hazard class: B.3, D.2.B

16- Other Information

Table with 3 columns: Hazard, NFPA Hazard Code®, and HMIS Hazard Code®. Rows include Health (2), Fire (2), Reactivity (1), and Specific Hazard (No water, Personal protection: See Section 8).

NFPA is a registered trademark of the National Fire Protection Association
HMIS is a registered trademark of the National Paint and Coatings Association

First Aid Supplement

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue and skin in seconds. Experience has shown that accidents due to Cyanoacrylates are best handled by passive, non-surgical first aid. Treatment of specific types of accidents are suggested as follows:

Skin Contact- Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Dried adhesive does not present a health hazard even when bonded to the skin. Avoid contact with clothes, fabric, rags or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear rubber or polyethylene gloves and an apron when handling large amounts of adhesive.

Skin Adhesion- First immerse the bonded surfaces in warm, soapy water. Peel off or roll the surfaces open with the end of a blunt edge, such as a spatula or a spoon handle, then remove adhesive from the skin with soap and water. Do not try to pull the surfaces apart with a direct opposing action.

Eyelid Adhesion- In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in one to two days. There will be no residual damage. Do not try to open the eyes by manipulation.

Adhesive in eye- Adhesive introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, usually in several hours. This will cause periods of weeping until clearance is achieved. It is important to understand that disassociation will normally occur within a matter of hours, even with gross contamination.

Mouth- If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. It is almost impossible to swallow Cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one to two days.

Burns- Cyanoacrylates give off heat on solidification. In rare cases, large drops will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of Cyanoacrylate is released from the tissue as described above.

Surgery- It should never be necessary to use such drastic action to separate accidentally bonded skin.

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