

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: PRODUCT IDENTIFICATION AND USE

Product Name: Frame Fast Tradegrade Adhesive
Manufacturer: Uncommon Conglomerates, Inc.
Manufacturer's address: 400 Western Avenue North, St. Paul, MN 55103
Telephone number for information: 1-800-323-4545
Telephone number for emergencies: 1-800-424-9300
Product Type: Cyanoacrylate Ester
Preparer: Thomas J. McKinley, COO
Prepare Date: August 9, 1999
Supersedes: May 21, 1999

SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Percent</u>
Ethyl-2 Cyanoacrylate	7085-85-0	80-90
Poly (methyl methacrylate)	9011-14-7	10-20

<u>Ingredients</u>	<u>ACGIH (TLV)</u>	<u>Exposure Limits (TWA)</u>	<u>OSHA (PEL)</u>	<u>OTHER</u>
Ethyl-2 Cyanoacrylate	0.2 ppm		None	None

SECTION 3: HAZARDS IDENTIFICATION

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

Primary route of entry: Inhalation

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

SECTION 4: FIRST AID MEASURES

Ingestion: Ingestion is unlikely. See supplemental (Section 16) for emergency action.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin contact: Soak in warm water. See supplemental (Section 16) for emergency action.

Eye contact: Flush with warm water. See supplemental (Section 16) for emergency action.

SECTION 5: FIRE FIGHTING MEASURES

Flash point: 150° to 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

Safe storage: Store away from heat and direct sunlight to maximize shelf life. Store inside a dry location.

Handling: Keep container tightly closed. Avoid contact with skin. Avoid breathing vapors.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye protection: Safety glasses or goggles with side shields.

Skin: Polyethylene or no reactive gloves. Do not use cotton or wool. See supplemental page for more information.

Ventilation: Local exhaust ventilation recommended to maintain vapor level below TLV.

Respiratory protection: Not applicable with good local exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid
Sharp, pungent

Odor:

Boiling point:	Greater than 300°F	Specific gravity:	1.09
Solubility in water: applicable	Negligible.Polymerized by water	Evaporation Rate:	Not
Vapor Pressure:	Less than 0.2 mm Hg @ 20°C	Vapor Density (Air=1):	
	Approximately 3		
Volatile Organic Compound (EPA Method 24):	98.6% 1025.4 grams per liter		
(SCQAMD Method 316B)	0.48% 5.0 grams per liter		

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur
Incompatibility:	Polymerized by contact with water, alcohol's, amines and alkalis.

SECTION 11: TOXICOLOGICAL INFORMATION

See Section 3.

SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Spill or accidental release:	Flood with water to cure (harden) adhesive. Soak up with an inert absorbent.
Disposal procedures:	Incinerate or dispose of in an approved landfill in accordance with local and EPA regulations. Not a RCRA hazardous waste.

SECTION 14: SHIPPING INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper shipping name:	Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters).
Hazard class or division:	Unrestricted (Not more than 450 liters); Combustible liquid (More than 450 liters).
Identification number:	None (Not more than 450 liters); NA 1993 (More than 450 liters).
Marine pollutant:	No
IATA	
Proper shipping name:	Unrestricted (Not more than one pint); Other regulated substances (More than one pint).
Class or division:	Unrestricted (Not more than one pint); Class 9 (More than one pint).
UN or ID number:	None (Not more than one pint); UN 3334 (More than one pint).

SECTION 15: REGULATORY INFORMATION

CA Proposition 65:	No information
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SECTION 16: OTHER INFORMATION

Estimated NFPA Code:	Estimated HMIS Code:
Health Hazard: 2	Health Hazard: 2
Fire Hazard: 2	Flammability Hazard: 2
Reactivity Hazard: 2	Reactivity Hazard: 2
Specific Hazard: No water	Personal Protection: See Section 8

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SECTION 17: SUPPLEMENTAL SECTION

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 Cyanoacrylate 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 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 eye by manipulation.

Adhesive on the eyeball:

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.

SECTION 17: SUPPLEMENTAL SECTION (CONTINUED)

- 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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