

Material Safety Data Sheet

Item : NA1500

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1. CHEMICAL PRODUCT

Product Name :	NA-1500
Product Type :	Cyanoacrylate Ester Adhesive

2. COMPOSITION, INFORMATION ON INGREDIENTS

Substance name	Ethyl 2- cyanoacrylate
Synonyms	ethyl 2-cyanoacrylate, ECA, 2-cyano-2-propenoic acid ethyl ester
Formula	C ₆ H ₇ NO

Ingredients	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	% Composition
Ethyl-2-cyanoacrylate	7085-85-0	N/A	0.2ppm (TWA)	0.3ppm 15min STEL	90 - 95
Poly (methyl methacrylate)	9011-14-7	N/A	N/A	N/A	5 - 10
Hydroquinone	123-31-9	2mg/kg (TWA)	2 mg/kg (TWA)	4 mg/kg (STEL)	0.1-0.5

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. Estimated dermal LD 50 more than 2000 mg/kg.
Potential Routes of Entry:	None known
Symptoms of Overexposure:	Vapor is irritating to eyes and mucous membranes Above TLV. Exposure to vapors above the established limits may cause symptoms of non-allergic asthma.
Existing Conditions Aggravated by Exposure	None known

Ingredients	Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Ethyl cyanoacrylate	Allergen 、 Respiratory 、 Irritant	NO	NO	NO

4. FIRST AID MEASURES

Ingestion:	Ingestion is not likely. See supplemental page for emergency procedures.
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Inhalation:	Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Soak in warm water. See supplemental page for emergency procedures.
Eye contact:	Flush with water. See supplemental page for emergency procedures.

5. FIRE FIGHTING MEASURES

Flash Point:	>81°C	Method:	Tag Closed Cup
Recommended Extinguishing Agents:	Water spray, foam, dry chemical or carbon dioxide		
Special Firefighting Procedures:	fire-fighters should wear self contained breathing apparatus.		
Hazardous Products formed by Fire or Thermal Decomp. Irritating organic fragments Unusual Fire or Explosion Hazards:	Irritating organic vapours may be formed.		
Explosive Limits:	(% by volume in air) Lower	Not Applicable	
	(% by volume in air) Upper	Not Applicable	

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:	Flood slowly with water to polymerized, absorb with sand / earth and dispose to chemical waste bin. Dispose in accordance with pertinent national legislation.
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7. HANDLING AND STORAGE

Safe Storage:	When using large volumes ensure that operational area is well ventilated. Store between 5-25°C; avoid strong light and heat sources Incompatible with amine, bases, water
Handling:	Avoid contact with skin and eyes. Avoid breathing vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:	Safety glasses or goggles mandatory.
Skin:	Nitrile or polyethylene gloves and aprons. Do not use cotton. See supplemental page for additional information.
Ventilation:	Positive downdraft exhaust ventilation should be provided to maintain vapor concentration below TLV.
Respiratory	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Visco liquid	Volatile Organic Compound (EPA Method 24)	94.0%; 987 g/l
Odor:	Sharp, irritating	Vapor Pressure:	Less than 0.2mm at 25°C

Boiling Point:	More than 150°C	Vapor Density:	Approximately 3
PH:	Not Applicable	Evaporation Rate (Ether = 1)	Not available
Specific Gravity	1.05 at 25°C	Solubility in Water:	Polymerized

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	Polymerized by contact with water, alcohols, amines, alkalies.
Hazardous Decomposition Products (non-thermal):	None
Conditions to Avoid:	Peroxide , alkali, high humidity, high temperature

11. TOXICOLOGICAL INFORMATION

Estimated oral LD50:	>5000 mg kg
Estimated dermal LD50:	>2000 mg kg
Causes Severe Irritation.	
High concentrations are destructive to tissues of the mucous membranes and the upper respiratory tract.	

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:	Polymerize as above. Incinerate following EPA and local regulations.
EPA Hazardous Waste Number	NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

Not considered hazardous for the purposes of transportation.

15. REGULATORY INFORMATION

EUROPEAN INFORMATION:	
R36/37/38	Irritating to Eye, Skin and Respiratory System
S23	Do Not Breath Vapour
S24/25	Avoid contact with Skin and Eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
CYANOACRYLATE. DANGER BONDS SKIN AND EYES IN SECONDS	

16. OTHER INFORMATION

Estimated NFPA(R) Code:	Health Hazard:	2
	Fire Hazard:	2
	Reactivity Hazard:	1
	Specific Hazard:	Does not apply
Estimated HMIS(R) Code:	Health Hazard:	2
	Flammability Hazard:	2
	Reactivity Hazards:	1
	Personal Protection:	See Section 8.

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