

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Tenax Plus Super Glue, 7gr.
General Use: Cyanoacrylate adhesive

Manufacturer
Pacer Technology for Hughes Associates LLC
18116 Minnetonka Blvd.
Wayzata, MN 55391

Emergency Contact: CHEMTREC
Emergency Number: 1-800-424-9300
Alternate Number: 1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2A
Skin Irritation: Category 2
Target Organ Toxicity (Single exposure), Category 3
Skin Sensitization, Category 1

Physical:

Flammable Liquids, Category 4

GHS LABEL ELEMENTS

!
Exclamation Mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
Combustible liquid

PRECAUTIONARY STATEMENTS

Prevention:

Wash skin and hands thoroughly after handling.
Wear protective glove/protective clothing/eye and face protection
Avoid breathing dust/fumes/gas/mist/vapors and spray
Use only outdoors or in a well-ventilated area.
Keep away from heat, sparks, open flames and hot surfaces-No smoking

Response:

In case of fire, use dry chemical, foam or carbon dioxide to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal:

Dispose of in a manner consistent with federal, state and local regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name		WT%
CAS		
ETHYL-CYANOACRYLATE	85-100	7085-85-0
Polymethyl methacrylate	10-30	9011-14-7

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash with soap and Water. Peel or roll skin apart.

INGESTION: Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesion in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

INHALATION: Remove to fresh air. Prolonged or repeated elevated exposure may cause allergic reactions with asthma-like symptoms in sensitive individuals.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

EYES: Causes serious eye irritation. Will bond eyelids. Will cause excessive tearing.

SKIN: Bonds skin in seconds. May cause skin irritation. May cause sensitization by skin contact.

Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin.

INGESTION: Adhesive becomes solid in contact with saliva and may adhere to inside of mouth.

Saliva will lift adhesive in 1-2 days. Not a toxic product.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

ACUTE TOXICITY: Avoid exposure to vapor concentration in confined areas.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause rash (dermatitis).

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: GHS Flammable liquid, Category 4

GENERAL HAZARD: Combustible liquid and vapor. Product polymerized to solid by water.

EXTINGUISHING MEDIA: Use dry chemical extinguisher or flush with large amounts of water.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustible by-products of carbon monoxide/dioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Polymerize with water. Solid material may be scraped from surface.

LARGE SPILL: Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

WATER SPILL: None known.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

HANDLING: Avoid breathing (dust, vapor, mist, gas) Avoid contact with skin, eyes and clothing. Keep away from sources of ignition.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

STORAGE TEMPERATURE: Ideal storage: 41-50 F (5-10C)

SHELF LIFE: One year from the date of shipment.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910, 1200)

Supplier OEL	OSHA PEL		EXPOSURE LIMITS ACGIH TLV		
	Ppm	mg/m3	ppm	mg/m3	ppm
Chemical Name					
Ethyl 2 Cyanoacrylate	(1)	(1)	0.2	1.0	0.2

OSHA TABLE OF COMMENTS:

(1) NL: Not Listed

ENGINEERING CONTROLS: Use only in a well-ventilated area. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Use Nitrile gloves and aprons to prevent contact do not use PVC, Nylon or Cotton materials.

RESPIRATORY: Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: Full-face NIOSH-approved respirator with organic vapor cartridge.

WORK HYGIENIC PRACTICE: Avoid direct contact and breathing vapor. Use with adequate ventilation. Wash hands with soap and water after use.

OTHER PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Characteristic odor, intensely irritating

ODOR THRESHOLD: Odor Threshold-1ppm

APPEARANCE: Transparent, colorless liquid

PH: Not applicable

PERCENT VOLATILE: Not available

FLASHPOINT AND METHOD: 80C (178F) to 93.4C (200F) TAG CC

FLAMMABLE LIMITS: Not available

AUTOIGNITION TEMPERATURE: 485C (905 F)

VAPOR PRESSURE: < 0.2mm Hg

VAPOR DENSITY: Not available

BOILING POINT: >149C (300F)

FREEZING POINT: Not available

MELTING POINT: Not determined

THERMAL DECOMPOSITION: Not available
SOLUBILITY IN WATER: Insoluble
EVAPORATION RATE: Not established
DENSITY: Not available
SPECIFIC GRAVITY: 1.05g/ml at 25C
VISCOSITY #1: 80 to 120 Centipoise at 22c (72F)
MOLECULAR WEIGHT: Not available
(VOC) :< 20.000g/L Per SCAQMD Method 316B
COEFF. OIL/WATER: Partition coefficient (octanol/water): Not applicable

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
CONDITIONS TO AVOID: Avoid temperatures above 178F (80C) moisture and alkalines.
POSSIBILITY OF HAZARDOUS REACTIONS: Possible polymerization reaction in the presence of water, amines, alkalis and alcohols.
HAZARDOUS DECOMPOSITON PRODUCTS: Carbon dioxide, Carbon Monoxide and other toxic or irritation compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.
INCOMPATIBLE MATERIALS: Polymerized by water, alcohol, amines, alkaline materials.
COMMENTS: Reactivity: Rapid exothermic polymerization will occur in the presence of water, alcohol, amines and alkalis.

11. TOXICOLOGICAL INFORMATION

ACCUTE

Chemical Name	ORAL LD
DERMAL LD	(rat)
(rabbit)	
Ethyl-2- cyanoacrylate >2000mg/kg (estimated)	> 5000mg/kg

INHALATION LC : Vapors may be irritating. Recommended TWA 0.2ppm

EYE EFFECTS: Bonds skin and eyes in seconds. Eye irritant.

SKIN EFFECTS: Irritating to skin. May cause allergic skin reaction with prolonged contact.

CARCINOGENICITY:

IARC: None known

NTP: None known

OSHA: None known

SENSITIZATION: Possible skin sensitizer.

TARGET ORGANS: Irritant, Allergen/ Respiratory, Skin

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: None known.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of following all Local Authority requirements for disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name: Not restricted

ROAD AND RAIL (ADR/RID)

Proper Shipping Name: Not restricted

AIR (ICAO/IATA)

Shipping Name: Not regulated (less than 500ml) AVIATION REGULATED LIQUID, N.O.S. (ETHYLCYANOACRYLATE), UN 3334, 9

VESSEL (IMO/IMDG)

Shipping Name: Not restricted

CANADA TRANSPORT OF DANGEROUS GOODS

Shipping Name: Not restricted

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate Health, Delayed Health, Fire, Reactive.

313 REPORTABLE INGREDIENTS: None above reporting do minimums.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None above reporting to minimums

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name

CAS

Ethyl-2-cyanoacrylate

7085-85-0

Polymethyl methacrylate

9011-14-7

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

CLEAN AIR ACT:

40 CFR PART 68-RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not applicable.

CALIFORNIA PROPOSITION 65: No California Proposition 65 ingredients are known to be in this product.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION

16. OTHER INFORMATION

REVISION SUMMARY: This SDS replaces any other MSDS.

MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Pacer for Hughes Associates LLC does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.