



Safety Data Sheet


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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name :	TY-GN
Product Type :	Cyanoacrylate Adhesive
Company Name:	TEX YEAR INDUSTRIES INC
Company address	No.9, Wuquan 6th Rd., Wugu Dist., New Taipei City 24889, Taiwan, R.O.C.
Company Telephone	886-2-2299-2121

2. HAZARDS IDENTIFICATION

Emergency classification	Skin and eye irritant
GHS label:	
Signal word	Warning
Hazard statement	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS NO.	Concentration%
Ethyl-2-cyanoacrylate	7085-85-0	90~100%

4. FIRST AID MEASURES

Ingestion:	Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth.
Inhalation:	Don't breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).Evacuate from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If the breath has stopped, have artificial respiration. If breathing difficulty occurs, have oxygen inhalation.
Skin Contact:	Instantly wash affected parts of the body with water and soap and rinse thoroughly. Seek medical treatment and present this data sheet.



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Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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5. FIRE FIGHTING MEASURES

Flash Point:	80~93.4°C	Method:	Tag Closed Cup
Suitable extinguishing media:	Alcohol-resistant foam, dry powder, carbon dioxide, water spray jet.		
Unsuitable extinguishing media:	High volume water jet.		
Special hazards arising from the substance or mixture	In the event of fire the following can be released: Nitrogen oxides (NO _x), carbon monoxide (CO), carbon dioxide (CO ₂).		
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Firefighters should wear positive pressure self-contained breathing apparatus (SCBA). Firefighting operations, rescue and cleaning work under effect of combustion and smolder gases just may be done with breathing apparatus. Dispose of contaminated extinction water according to official regulations.		
Explosive Limits:	(% by volume in air) Lower	Not Applicable	
	(% by volume in air) Upper	Not Applicable	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For non-emergency personnel: Use personal protective clothing. For emergency responders: Ensure adequate ventilation. Avoid contact with eyes or skin.
Environmental precautions	If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.
Methods and material for containment and cleaning up	Do not use cloth for clean up. Flood with water to complete polymerization and scrape up the polymer. Solid material can be disposed as non-hazardous waste.
Reference to other sections	For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. HANDLING AND STORAGE

Recommendations	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Avoid contact with fabric and paper goods. Contact with these may cause polymerization that can
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	generate smoke and strong irritating vapors, and can cause thermal burns. Wash hands and face before eating.
Conditions for safe storage	Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Incompatible products: Do not store together with alkalis.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Appropriate Engineering Controls	If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use protective downdraft exhaust ventilation.
General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Eye/Face protection	Safety glasses with side shields or chemical splash goggles.
Skin protection	Do not use PVC, rubber, cotton or nylon gloves.
Hand protection	Tested protective gloves are to be worn: Suitable material: Synthetic rubber gloves. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
Respiratory protection	If there is a potential to exceed exposure limits, use an approved respirator.
Environmental exposure controls	Do not empty into drains or the aquatic environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Slight cloudy, colorless to yellowish colored gel		
Flammability	Not available	Vapor Pressure:	Less than 0.2mmHg at 25°C
Odor:	Sharp, irritating	Solubility in Water:	Polymerizes in water
Boiling Point:	More than 200°C	Specific Gravity	1.10 at 25°C
Viscosity (cps)	150,000~200,000	VOC content	Less than 2%; 20g/l

10. STABILITY AND REACTIVITY



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Reactivity	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, oxidizing agents and alcohols. Stable under recommended storage conditions.
Chemical stability	The product is in compliance with the storage and processing conditions, chemically stable.
Possibility of hazardous reactions	Danger of polymerization. Polymerization with evolution of heat.
Conditions to avoid	Spontaneous polymerizations.
Incompatible materials	Water, amines, alkalis, oxidizing agents and alcohols.
Hazardous decomposition products	Carbon monoxide and carbon dioxide. Nitrous oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000 mg/kg (rat). It is almost impossible to swallow as it rapidly polymerizes in the mouth. Irritating to the skin. Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit) >2000mg/kg. Due to polymerization at the skin surface allergic reaction is unlikely to occur.
In dry atmosphere with <50% humidity, vapor may irritate the eyes and respiratory system.
Carcinogenicity:
According NTP, OSHA and IARC, the substance is not carcinogen.

Ingredients	Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Ethyl-2-cyanoacrylate	Allergen、Respiratory、Irritant	NO	NO	NO

12. ECOLOGICAL INFORMATION

Biological and chemical oxygen demands (BOD and COD) are insignificant. Do not empty into drains/ surface water/ ground water. Do not allow uncontrolled leakage of product into the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment	Dispose according local, province/state, country's governmental
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containers	regulations.
Appropriate methods of waste treatment of Substance	Cured adhesive: Disposal of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.
Appropriate methods of waste treatment of Packaging	After use, tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated. Disposal must be made according to official regulations.
Sewage disposal	Dispose according local, province/state, country's governmental regulations.

14. TRANSPORTATION INFORMATION

Not considered hazardous for the purposes of transportation.
IATA : Not dangerous goods

15. REGULATORY INFORMATION

Avoid contact with skin and eyes.
This product is not included on the Candidate List of Substances of Very High Concern for Authorization
The product is not subject to restrictions under Annex XVII of REACH Regulation.
CYANOACRYLATE. DANGER BONDS SKIN AND EYES IN SECONDS

16. OTHER INFORMATION

Additional Information	The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
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Prepared By	Research & Develop Center
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Tabulation unit	Tien Hsiang Hsieh / Research and development
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