



### 1. IDENTIFICATION

**PRODUCT CODE:** CY2E20  
**PRODUCT NAME :** Cyanoacrylate  
**USAGE :** For industrial and professional usage  
**USAGE ADVISED AGAINST :** Any non-intended use  
**SUPPLIER:** Tec-N-Tec Inc.  
8244 Pascal-Gagnon  
Montreal, QC, H1P 1Y4  
Phone : (514)325-7777  
**EMERGENCY TELEPHONE :** CANUTEC : (613)996-6666

### 2. HAZARDS IDENTIFICATION

**CLASSIFICATION OF SUBSTANCE :**  
REGULATION (EC) N°. 67/548  
- Serious eye damage/eye irritation, cat. 2  
REGULATION (EC) N°. 1272/2008  
- Serious eye damage/eye irritation, cat. 2  
- May cause respiratory irritation, STOT SE 3  
- Cause skin irritation, cat. 2

**PICTOGRAMS :**



**WARNING :**  
- Danger

**HAZARD STATEMENTS :**  
- H319 Causes serious eye irritation.  
- H335 May cause respiratory irritation.  
- H315 Cause skin irritation.  
- EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in second. Keep out of the reach of children.

**PRECAUTIONARY STATEMENTS :**  
- P280 Wear protective gloves, protective clothings, eye and face protection.  
- P304+340 If inhale: remove victim to fresh air and keep at rest in a position comfortable for breathing.  
- P332+313 If skin irritation occurs, get medical advice.  
- P305+351+338 If in eyes: rinse cautiously with water for 15 minutes. Remove contact lenses, if possible. Continue rinsing. Consult an ophthalmologist if symptoms persist.  
- P403+233 Store in a cool, dry, well-ventilated place in a closed container away from flames, heat or sparks.  
- P501 Dispose of waste according to applicable legislation.

**OTHER HAZARDS :**  
- Not applicable

### 3. HAZARDOUS COMPONENTS

CHEMICAL NAME	INDEX No.	%	EC No.	CAS No
ETHYL-2-CYANOACRYLATE	607-236-00-9	80-99	230-391-5	7085-85-0



### 4. FIRST AID

**INHALATION** : Remove casualty to fresh air and keep at rest . In all cases of doubt, or when symptoms persist, seek medical advice.

**SKIN** : Wash immediately with plenty of water and soap. Do not pull bound skin apart. It can be gently separated using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat during solidification. In rare cases, a large drop generates enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If the lips are accidentally stuck together, apply hot water to the lips and encourage maximum wetting and pressure by saliva inside the mouth. Peel or roll lips apart. Do not try to separate the lips with a direct opposing action. In case of skin irritation: consult a doctor.

**EYES** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue to rinse. If the eye is bonded closed, release the eyelashes in lukewarm water, covering them with a wet pad. Cyanoacrylate will bond to eye protein and causes periods of weeping which will help debond the adhesive. Keep your eye covered until debonding is complete, usually within 1 to 3 days. Medical advice should be sought if solid particles of cyanoacrylate trapped behind the eyelid cause abrasive damage.

**INGESTION** : Make sure the airways are not blocked. The product will polymerize immediately in the mouth, making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

**IMPORTANT SYMPTOMS ET EFFECTS** : Gross contamination with the adhesive may generate enough heat to cause a burn.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED** : Not determined.

### 5. FIREFIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA** : Fine water spray, carbon dioxide, dry extinguishing powder.

**UNSUITABLE EXTINGUISHING MEDIA** : Water jet.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OF MIXTURE** : Trace amounts of toxic fumes may be release on incineration.

**HAZARDOUS COMBUSTION PRODUCTS** : Oxides of carbon, oxides of nitrogen, irritating organic vapours.

**SPECIAL PROTECTIVE EQUIPMENT AND FIREFIGHTER PRECAUTIONS** : Wear self-contained breathing apparatus and chemical protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Wear personal protection equipment. (See section 8). Ventilate affected area. Avoid contact with skin, eyes and clothes. Do not breath dust/fume/gas/mist/vapour/spray.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING** : Do not use clothing to clean. Flood with water to complete the polymerization and scrape off the floor. The hardened material can be disposed of as non-hazardous waste

### 7. HANDLING AND STORAGE

**PRECAUTION FOR SAFE HANDLING :**

Avoid breathing dust / fume / gas / mist / vapors / spray. Use only outdoors or in a well-ventilated area. Ventilation (low level) is recommended when using large volumes. The use of dispensing equipment is recommended to minimize the risk of skin or eye contact. Wash hands thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE:**

For optimal shelf life, store in the original packaging under refrigeration conditions between 2 ° C and 8 ° C. Store in a locked cabinet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**CONTROL PARAMETERS:**

**Exposure limits :**

CAS No	SUBSTANCE	PPM	MG/M <sup>3</sup>	CATEGORY	ORIGIN
7085-85-0	ETHYL-2-CYANOACRYLATE	0.3 0.2	1.5	STEL (15min) TWA	

**Derived DNEL(s) / DMEL(s) :**

TYPE	DETAILS	VALUE	BASIS
Worker – Inhalation route	Systemic effect – Long term exposure	9.25 mg/m <sup>3</sup>	Irritation (respiratory tract)
Worker – Inhalation route	Local effect – Long term exposure	9.25 mg/m <sup>3</sup>	Irritation (respiratory tract)
General population – Inhalation route	Systemic effect – Long term exposure	9.25 mg/m <sup>3</sup>	Irritation (respiratory tract)
General population – Inhalation route	Local effect – Long term exposure	9.25 mg/m <sup>3</sup>	Irritation (respiratory tract)

**Derived PNEC(s) :**

Tests in an aqueous media with ethyl-2-cyanoacrylate with the intent to determine effective concentrations or concentrations without effect cannot be carried out for technical reasons based on the chemical properties of the monomer.

**Appropriate engineering controls :** Provide adequate ventilation in the area of use. Do not use this product in a closed or poorly ventilated area. Local exhaust ventilation is normally required when handling or using this product to keep the airborne powder below the national authorized limits. If ventilation alone cannot control exposure, respiratory protection must be used.

**Individual protection measures :**

- *Protective and hygiene measures* : Good industrial hygiene practices should be observed. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.
- *Eye/Face protection* : Appropriate eye protection. Hermetic safety glasses.
- *Hand protection* : If there is a risk of prolonged or repeated contact with the skin, it is recommended to use polyvinyl chloride or nitrile rubber gauntlets or equivalent gloves resistant to solvents. The use of chemical resistant gloves such as nitrile is recommended. Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber, nylon or cotton gloves.
- *Skin protection* : Wear protective clothing.
- *Respiratory protection* : Ensure adequate ventilation in the area of use.
- *Environmental exposure controls* : Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state and colour** : Liquid and colourless

**Odour** : Pungent

**pH** : Not determined

**Melting point/Freezing point**: -31°C

**Boiling point** : 214°C

**Flash point** : 82,5°C

**Evaporation rate** : Not determined

**Flammability (solid and gas)** : Not flammable

**Lower explosion limit** : Not applicable

**Upper explosion limit** : Not applicable

**Vapour pressure** : ≤ 21 Pa

**Vapour density** : Not determine

**Relative density** : 1.043 g/cm<sup>3</sup> @ 20°C

**Water solubility** : ≤ 0.024 mg/l

**Other solvents** : Recovery in acetone = 91.8%; Recovery in acetonitrile = 96.5%

**Partition coefficient n-octanol/water** : Log Pow 0.776 (calculated)

**Auto-ignition temperature** : Non determined

**Decomposition temperature** : Non determined

**Kinematic viscosity** : Non determined

## 10. STABILITY AND REACTIVITY

**Reactivity :** Not determined.

**Chemical stability :** The product is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions :** Polymerization will occur in the presence of moisture and other basic materials.

**Conditions to avoid :** Moisture, humidity, basic material.

**Incompatible materials :** Water, soil, amines, alkalis and alcohols.

**Hazardous decomposition products :** Oxides of carbon, oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

**Exposures routes :** This product can be absorbed through inhalation, skin contact or digestion.

**Acute toxicity :**

CAS No/CHEMICAL NAME	EXPOSURE ROUTES	METHOD	DOSE	SPECIES	SOURCE
7085-85-0/ETHYL-2-CYANOACRYLATE	Oral	LD50	> 5000 mg/kg	Rat	OECD 401
	Dermal	LD50	> 2000 mg/kg	Rabbit	OECD 402

**Inhalation:** In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system. Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.

**Irritation and corrosion on skin :** Causes skin irritation.

**Irritation and serious eye damage:** Irritating to eyes. In a dry atmosphere (RH < 50%), vapours may cause irritation and lachrymatory effect.

**Sensitizing effects :** Due to polymerization at the skin surface allergic reaction is not considered possible. The polymerized material is not able to penetrate into the epidermis.

**STOT-Single exposure :** May cause irritation for skin, eyes and respiratory system. Ethyl-2-cyanoacrylate is not toxic by repeated absorption.

**Carcinogenicity :** Not carcinogenic.

**Toxic effects for reproduction :** Not toxic by reproduction.

**Germ cell mutagenicity :** Because of the reduced exposure to monomer and the reported negative test result in various mutagenicity tests, ethyl-2-cyanoacrylate cannot be classified as mutagen.

## 12. ECOLOGICAL INFORMATION

**Aquatic and terrestrial ecotoxicology :** Low ecotoxicity

**Persistence and degradability :** Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately).

**Bioaccumulative potential :** Not applicable (in presence of moisture ethyl-2-cyanoacrylate polymerizes within seconds).

**Mobility in soil :** Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately).

**Other adverse effects :** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions. Dispose in accordance with local and national regulations. Polymerize by adding slowly to water (10:1). Contribution of this product to waste is very insignificant in comparison to article in which it is used. 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.

**Waste disposal code / unused products :** 08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.



## 14. TRANSPORT INFORMATION

UN Number : Not regulated

UN Proper shipping name : Not regulated

Transport hazard class(es) : Not regulate

Packing group : Not regulated

Environmental hazards : -

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not regulated

Special precautions for user : Not determined

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU regulatory information : Not determined

Chemical safety assessment : A chemical safety assessment has been performed.

## 16. OTHER INFORMATIONS

Written by: Tec-N-Tec inc.

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Initial release date: 14-04-2020

THE ABOVE INFORMATION DESCRIBES EXCLUSIVELY THE SAFETY REQUIREMENTS OF THE PRODUCT AND IS BASED ON OUR PRESENT-DAY KNOWLEDGE. THE INFORMATION IS INTENDED TO GIVE YOU ADVICE ABOUT THE SAFE HANDLING OF THE PRODUCT NAMED IN THIS SAFETY DATA SHEET, FOR STORAGE, PROCESSING, TRANSPORT AND DISPOSAL. THE INFORMATION CANNOT BE TRANSFERRED TO OTHER PRODUCTS. IN THE CASE OF MIXING THE PRODUCT WITH OTHER PRODUCTS OR IN THE CASE OR PROCESSING, THE INFORMATION ON THIS SAFETY DATA SHEET IS NOT NECESSARILY VALID FOR THE NEW MADE-UP MATERIAL.