

# SAFETY DATA SHEETS

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According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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#### **SECTION 1. Identification of the substance**

Product identifiers	
Product name:	n-Butyl-2-cyanoacrylate
CAS-No.:	133978-15-1
Relevant identified use	es of the substance or mixture and uses advised against
Identified uses:	Laboratory chemicals, Manufacture of substances
Details of the supplier	of the safety data sheet
Company:	CHEMLYTE SOLUTIONS CO., LTD
Address:	A1-3-830, XiXi Center, No. 588, Wenyi West Road, Hangzhou 310000,
	Zhejiang, China
Telephone:	+86-(571)-85061365
Fax :	+86-(571)-85060165
Emergency telephone	number
Emergency Phone # :	+1-703-527-3887

#### **SECTION 2. Composition/Information on**

#### Summary of emergency

Ingredients		CAS No.	Weight%	R Phrases
Chemical Name	Synonyms			
n-Butyl-2-cyanoacrylate	Enbucrylate	6606-65-1	98 - 100	36,37

These compounds compose the majority of the product. Other components in the formulation constitute a trade secret and occur in non-hazardous amounts.

#### Section 3. Hazardous Identification

Routes of Entry Eye contact, Skin contact, Inhalation Health Hazards Eye - Skin - Respiratory system. Target Organs Potential Health Effects Eyes - may cause severe irritation. During period of eye contamination double vision may occur, weeping will occur until clearance is achieved. Skin - bonds in seconds. May cause irritation, may cause allergic skin reaction. Ingestion - unlikely route of exposure due to polymerisation. Bonds to oral tissue in seconds. Saliva will lift adhesive in one to two days. Inhalation - may cause sensitisation and upper respiratory tract irritation. Medical conditions generally Pre-existing skin, eye and respiratory disorders may be aggravated by

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exposure. aggravated by exposure: The vapour is irritating to eyes and mucous membranes. Prolonged and repeated overexposure to vapours may produce allergic reactions with asthma-like symptoms in sensitive individuals.

#### Section 4. First Aid Measures

Eyes: If eyelids are bonded, release eyelashes with a pad soaked in warm water. Cyanoacrylate that has bonded to eye protein will produce tears, which will assist in the debonding process. Keep eye covered with a wet pad until debonding is complete, usually within I tO 3 days - do not force eye open. Seek medical advice if solid particles of cyanoacrylate are trapped behind eyelid - this may cause abrasive damage. Skin: Do not force separation. Peel or roll skin apart in warm soapy water using a blunt instrument such as a spoon. Pre-soaking in a solution of 5% sodium bicarbonate will assist separation. Ingestion: Do not induce vomiting. Give I - 3 glasses of water to drink to dilute stomach contents. Do not give anything by mouth if victim is unconscious or convulsing. Obtain immediate medical attention. Saliva should lift adhesive in 12 tO 48 hours. Avoid swallowing adhesive after detachment. Lips may become bonded together, apply copious amounts of warm water and encourage wetting/pressure from saliva inside mouth. Peel or roll lips apart gently. Call a physician. Inhalation: Remove to fresh air. If symptoms persist, call a physician.

#### Section 5. Fire Fighting Measures.

Flash Point: 85 – 112 °C (Setaflash closed cup method)
Flammable Limits: LEL %: Not determined (N/D)
UEL %: N/D
Extinguishing Media: Water spray, CO , Foam, Dry Chemical
Special Fire Fighting Procedures: Wear full protective equipment including self-contained
Breathing apparatus.
Unusual Fire and Explosion Hazards: Water may spread fire.
Product floats on water when cured.
Acrid smoke and rritating fumes (oxides of carbon - oxides of nitrogen)
occur in fire conditions.

#### **Section 6. Accidental Release Measures**

Use water spray to polymerise and scrape off floor. Solidified material may be scraped from Surfaces for disposal. Wear appropriate protective clothing. Prevent material from entering drains and watercourses.

## Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Avoid inhaling vapours on application. Avoid moisture, direct UV sunlight and prolonged storage above 250C (770F).

#### Section 8. Exposure Controls, Personal Protection

Respiratory Protection (Specify type): Normally not necessary. A NIOSH approved organic vapour canister may be used. Ventilation : Local exhaust to prevent eye irritation. Protective gloves: Chemical resistant gloves - polyethylene recommended. Other protective



clothing or equipment: Chemical goggles, safety glasses with side shields, rubber apron.

#### **Section 9. Physical and Chemical Properties**

Physical state: Liquid
Boiling point: >150 $^\circ\!\mathrm{C}$ (302 $^\circ\!\mathrm{F}$ )
Specific Gravity (H20 =1): 1.444
Vapour density (air =1): N/D
Melting point: N/D
Vapourpressure(mmHg) N/D
Evaporation rate (butyl acetate =1): N/D
Solubility in water: Negligible, polymerises in water
Appearance and odour: purple, slightly pungent/ sharp
odour % Volatile: 0 at 21 $^\circ { m C}$ (70 $^\circ { m F}$ )
pH: N/A

#### Section 10. Stability and Reactivity

Stability	Unstable	Stable	x
Incompatibility (Materials to avoid)	Amines, Alcohols, Water, cotton, wool bases		
Hazardous decomposition or	Combustible by-products of carbon monoxide and dioxide		
By-products:			
Hazardous polymerisation:	May occur	May not occur	x
Conditions to avoid:	Temperatures >38 °C (100 °F )		

#### Section 11. Toxicological Information

Cyanoacrylate vapours are irritating to eyes and mucous membranes; prolonged and repeated overexposure may result in allergic reactions (rhinitis) with asthma-like symptoms in certain individuals. In the event of fire or heating, cyanoacrylate adhesives increase their volatility and this increases the risk of respiratory irritation and sensitisation. Contact dermatitis may occur after chronic repetitive exposure of the skin to liquid monomer. Weeping, tears and double vision may be experienced until polymerisation has occurred. If cured cyanoacrylate enters the eye, there is a chance of corneal damage due to abrasion. Pain, corneal abrasions, keratoconjunctivitis and eyelash loss occurs. This product in not expected to cause long-term adverse health effects. This product in not expected to cause reproductive and developmental health effects. Carcinogenity, NTP: Not considered carcinogenic by NTP, IARC and OSHA IARC Monographs: No OSHA Regulated: No LD50: Lethal dose 50% LC50: Lethal concentration 50%

#### Section 12. Ecological Information

Environmental Fate: Not available

#### Section 13. Disposal Consideration

This product is not a hazardous waste. Flood with water to polymerise. Soak up with an inert



absorbent (earth or sand). Dispose of in an approved landfill in accordance with local authority regulations.

#### Section 14. Transport Information

Not restricted for transportation by air, sea, and road.

#### **SECTION 15. Regulatory Information**

Labelling information: Indication of Danger: None Risk Phrases: None Contains: Cyanoacrylate

### **SECTION 16: Other information**

#### **Further information**

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