

Cyanoacrylate Safety Data Sheet

Section 1. Identification

1.1. Product identifier used on the label Part Numbers: LQB 003, LQB 003T, LFC 004, LFC 004T, CHLOT01-08

1.2. Other means of identification Topical Skin Adhesive

1.3. Recommended use of the chemical and restrictions on use

A topical skin adhesive used to close easily approximated skin edges of wounds from surgical incisions, including punctures from minimally invasive surgery and simple, thoroughly cleansed, trauma induced lacerations.

Federal (USA) law restricts this device to sale by or on the order of a physician.

1.4. Name, address, and telephone number of the manufacturer

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Langage Science Park

Plymouth Devon PL7 5BG

UK

Tel: +44(0)8444 125754

E-mail: customer.support@admedsol.com

1.5. Emergency phone number Tel: +44(0)8444 125754

Section 2. Hazard(s) Identification

2.1. Classification of the chemical

Health Hazard	Environmental Hazard	Physical Hazard
Acute Toxicity – N/A	None	None
Skin Corrosion – N/A		1 * "
Skin Irritation – N/A		9
Serious Eye Damage – N/A	-	
Eye Irritation – Category 2B	9	
Respiratory Sensitisation – N/A		
Skin Sensitisation – N/A		A
Germ Cell Mutagenicity – N/A	127	
Carcinogenicity – N/A		- a 6
Reproductive Toxicity – N/A		
Specific Target Organ:	1 = x + 9	1 _ 100
Single Exposure – N/A		
Repeated/Prolonged Exposure – N/A	- s s s 2	
Aspiration – N/A	5 = 5,24 = 1	The state of the s

2.2. Signal word None
2.3. Hazard statement None
2.4. Symbol None
2.5. Precautionary statement None

Section 3. Composition/ Information on Ingredients

	Ingredients			1	Weight	News 150 PS	P
	Chemical Name	Synonyms	CAS No.	EC No.	%	Classification	Phrases
3.1.	2-Octyl cyanoacrylate	None	133978-15-1	None	0 - 100		36, 37
3.2.	n-Butyl cyanoacrylate	Enbucrylate	6606-65-1	None	0 - 100	1	36, 37

n-Butyl cyanoacrylate and 2-Octyl cyanoacrylate as individual compounds or blended together. These compounds compose the majority of the product. Other components in the formulation constitute a trade secret and occur in non-hazardous amounts.

R36: Irritating to eyes

R37: Irritating to respiratory system

Section 4. First Aid Measures

4.1. 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 1 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.

4.2. 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.

4.3. Ingestion: Do not induce vomiting. Give 1 – 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.

4.4. Inhalation: Remove to fresh air. If symptoms persist, call a physician.

Section 5. Fire Fighting Measures

5.1. Extinguishing Media: Water spray, CO₂, Foam, Dry Chemical

5.2. Unusual Fire and Explosion Hazards: Water may spread fire. Product floats on water when cured. Acrid smoke and irritating fumes (oxides of carbon – oxides of nitrogen) occur in fire conditions.

5.3. Special Fire Fighting Procedures: Wear full protective equipment including self-contained breathing apparatus

Section 6. Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures:

Wear appropriate protective clothing. Prevent material from entering drains and watercourses.

6.2. Methods and materials for containment and cleaning up:

Use water spray to polymerise and scrape off floor. Solidified material may be scraped from surfaces for disposal.



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Handling and Storage

7.1. Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid inhaling vapours on application.

7.2. Conditions for safe storage: Avoid moisture, direct UV sunlight and prolonged storage above 25°C (77°F).

Exposure Controls, Personal Protection

Not determined

8.1. Exposure limit: 8.2. Engineering controls:

Local exhaust to prevent eye irritation

8.3. Individual protection measures:

Respiratory Protection (Specify type): Normally not necessary. A NIOSH approved organic vapour cannister may be used.

Protective gloves:

Chemical resistant gloves - polyethylene recommended. Chemical goggles, safety glasses with side shields, rubber apron.

Other protective clothing or equipment: Section 9. **Physical and Chemical Properties**

9.1. Appearance (physical state, colour, etc):

Violet or colourless liquid

9.2. Odour:

Slightly pungent/sharp Not determined

9.3. Odour threshold: 9.4. pH:

N/A

9.5. Melting point/freezing point:

Not determined

9.6. Boiling point:

>150°C (302°F) 85 - 112°C

9.7. Flash point: 9.8. Evaporation rate: Setaflash closed cup method butyl acetate = 1

9.9. Flammability:

Not determined

9.10. Lower flammability or explosive limits: 9.12. Upper flammability or explosive limits: Not determined Not determined Not determined

9.13. Vapour pressure: 9.14. Vapour density: 9.15. Relative density:

Not determined 0.989-1.444

 $H_2O = 1$ Negligible in water (polymerises)

air = 1

9.16. Solubility: 9.17. Partition coefficient:

Not determined

n-octanol/water Not determined

9.18. Auto-ignition temperature: 9.19. Decomposition temperature:

Not determined

9.20. Viscosity: Section 10.

<100cP Stability and Reactivity

10.1. Chemical stability:

Section 11.

Stable

10.2. Possibility of hazardous reactions:

Hazardous polymerisation may not occur

10.3. Conditions to avoid: 10.4. Incompatible materials: Temperatures >38°C (100°F) Amines, Alcohols, Water, cotton, wool bases

10.5. Hazardous decomposition products:

Combustible by-products of carbon monoxide and dioxide Toxicological Information

11.1. Information on the likely routes & symptoms of exposure

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. Irritation with pain, corneal abrasions, keratoconjunctivitis and eyelash loss occurs. Pre-existing skin, eye and respiratory disorders may be 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

11.3. Delayed and immediate effects and also chronic effects from short and long term exposure

This product in not expected to cause long-term adverse health effects.

This product in not expected to cause reproductive and developmental health effects.

11.4. Numerical measures of toxicity (such as acute toxicity estimates)

LD50:

Lethal dose 50%

LC50:

Lethal concentration 50%

11.5. Carcinogenicity

Not considered carcinogenic by NTP, IARC and OSHA

Carcinogenity, NTP: IARC Monographs: OSHA Regulated:

No No

Section 12.

Ecological Information Not available

12.1. Environmental Fate: Section 13.

Disposal Consideration

13.1. 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

14.1. Not restricted for transportation by air, sea, and road. Section 15.

Regulatory Information

None

15.1. Labelling information:

Indication of Danger: Risk Phrases:

Contains:

Cyanoacrylate

Section 16.

Additional Information

16.1. Date of preparation:

15 April 2015

16.2. Revision:

01

16.3. Last change made:

Originated to comply with requirements of OSHA Regulation 1910.1200

The opinions expressed above are those of qualified experts within Advanced Medical Solutions (Plymouth) Ltd. We believe that the information provided is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not under the control of AMS (Plymouth) Ltd, it is the user's obligation to determine conditions of safe use of this product.