

This safety data sheet has been prepared in accordance with the requirements of EC Directive 88/379/EEC and 91/155/EEC (and other related directives) and provides information relating to the safe handling and use of the product.

1. PRODUCT AND COMPANY INFORMATION

Product Code	0158693
Trade Name	4850
Manufacturer/Supplier	Loctite UK
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Nature Cyanoacrylate adhesive.

Hazardous Components in Product for EC

Component Name	Concentration	R Phrases	Classification
Ethyl Cyanoacrylate	40.00 - 60.00	R36/37/38	Xi
n-Butyl cyanoacrylate	15.00 - 30.00		

3. HAZARD IDENTIFICATION

Irritating to eyes, respiratory system and skin. Bonds skin and eyes in seconds. Highly reactive to water. (See Section 4 on first aid).

4. FIRST AID MEASURES

First Aid - Inhalation

Remove affected person to fresh air, and if still feeling unwell seek medical attention.

First Aid - Skin

Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin.

If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action.

First Aid - Eyes

If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.

First Aid - Ingestion

Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

5. FIRE FIGHTING MEASURES

Non flammable product (flash point is greater than 80°C (CC)). If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Trace amounts of toxic fumes may be released on incineration and the use of breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Do not use cloths for mopping up. Polymerise with water and scrape off floor.

7. HANDLING AND STORAGE

Handling

Ventilation (low level) is recommended when using large volumes. Use of dispensing equipment is recommended to minimise the risk of skin or eye contact.

Storage

For optimum shelf life store in original containers under refrigerated conditions at 2°C to 8°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits**Ethyl Cyanoacrylate**

ACGIH: TLV 0.2ppm 8h TWA.

HSA (1999) C.O.P : OEL 2ppm (8mg/m³) 8h TWA.

HSA (1999) C.O.P : OEL 4ppm (16mg/m³) 15 min exposure limit.

Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber, nylon or cotton gloves. Eye protection should be used where there is any risk of splashing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Clear Colourless.
Odour	Sharp. Characteristic.
pH	Not applicable.
Boiling Range/Point (°C)	Boils above 100.
Flash Point (CC) (°C)	Exceeds 80.
Specific Gravity	1.06.
Solubility in Water (kg/m³)	Insoluble.
Solubility in Acetone	Soluble
Vapour Pressure (mmHg @25°C)	Not determined.
Explosion Limits (%)	Not applicable.

10. STABILITY AND REACTIVITY

Polymerisation will occur in the presence of moisture.

11. TOXICOLOGICAL INFORMATION

Inhalation

Irritating to respiratory system. 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.

Skin

This product is classified as a skin irritant. Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit)>2000mg/kg.

Due to polymerisation at the skin surface allergic reaction is not considered possible.

Eyes

This product is an irritant to the eyes. Liquid product will bond eyelids. In a dry atmosphere

11. TOXICOLOGICAL INFORMATION

(RH<50%) vapours may cause irritation and lachrymatory effect.

Ingestion

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

12. ECOLOGICAL INFORMATION

Biodegradable product of low ecotoxicity. Does not contain and is not manufactured with any of the substances listed on the Montreal protocol.

13. DISPOSAL CONSIDERATIONS

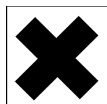
Dispose of in accordance with local and national regulations. Polymerise by adding slowly to water (10:1). Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.

14. TRANSPORT INFORMATION

UN Number	None
Air (IATA)	Not classified.
Sea (IMO)	Not classified.
Road (ADR)/Rail (RID)	Not classified.

15. REGULATORY INFORMATION

Contains	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
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**Labelling
Information**

Irritant

R phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

S phrases

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Voluntary Labelling

16. OTHER INFORMATION

MSDS first issued	23 May 2001
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Further Information may be obtained from:-

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**Loctite Corporation**

Environmental Health & Safety Affairs
Health & Regulatory Affairs - Europe

SAFETY DATA SHEET

4850

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16. OTHER INFORMATION

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