

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.

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## 1. PRODUCT AND COMPANY INFORMATION

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<b>Product Code</b>	0158217
<b>Trade Name</b>	480
<b>Manufacturer/Supplier</b>	Loctite UK
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB.
<b>Phone Number</b>	01 707 358800
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<b>Emergency Phone Number</b>	+353-1-4599301/+353-1-87-2629625/+353-1-4046444

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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**Nature** Cyanoacrylate adhesive.

### Hazardous Components in Product for EC

<b>Component Name</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Ethyl Cyanoacrylate	65.00 - 95.00	R36/37/38	Xi

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## 3. HAZARD IDENTIFICATION

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Irritating to eyes, respiratory system and skin. Bonds skin and eyes in seconds. Highly reactive to water. (See Section 4 on first aid). Cyanoacrylates give off heat on solidification. In rare cases skin contact with a large drop may generate enough heat to cause burns to the skin.

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## 4. FIRST AID MEASURES

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### 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).

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## 5. FIRE FIGHTING MEASURES

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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

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**5. FIRE FIGHTING MEASURES**

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on incineration and the use of breathing apparatus is recommended.

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**6. ACCIDENTAL RELEASE MEASURES**

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

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**7. HANDLING AND STORAGE**

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**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.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Occupational exposure limits****Ethyl Cyanoacrylate**

ACGIH: TLV 0.2ppm 8h TWA.

HSA (1999) C.O.P : OEL 2ppm (8mg/m<sup>3</sup>) 8h TWA.

HSA (1999) C.O.P : OEL 4ppm (16mg/m<sup>3</sup>) 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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Liquid.
<b>Colour</b>	Black.
<b>Odour</b>	Sharp. Characteristic.
<b>pH</b>	Not applicable.
<b>Boiling Range/Point (°C)</b>	Boils above 100.
<b>Flash Point (CC) (°C)</b>	Exceeds 80.
<b>Specific Gravity</b>	1.1 at 20 °C.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Not applicable.
<b>Vapour Pressure (mmHg @25°C)</b>	Less than 0.5 at 25 °C.
<b>Explosion Limits (%)</b>	Not applicable.

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**10. STABILITY AND REACTIVITY**

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Polymerisation will occur in the presence of moisture.

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**11. TOXICOLOGICAL INFORMATION**

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**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

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**11. TOXICOLOGICAL INFORMATION**

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allergic reaction is not considered possible.

**Eyes**

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

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**12. ECOLOGICAL INFORMATION**

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

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**13. DISPOSAL CONSIDERATIONS**

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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.

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**14. TRANSPORT INFORMATION**

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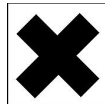
<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

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**15. REGULATORY INFORMATION**

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

**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**

N/A

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**16. OTHER INFORMATION**

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<b>MSDS first issued</b>	14 December 1995
<b>MSDS data revised</b>	22 March 2000

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## 16. OTHER INFORMATION

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Further Information may be obtained from:-

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