



Material Safety Data Sheet



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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: 460 LOW BLOOM PRISM  
Item No. : 16769

Product type: Cyanoacrylate

Region: Europe

**Company Name & Address**

Henkel Loctite Ireland Ltd,  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Nature of product: Cyanoacrylate Adhesive.

Hazardous components CAS No.	EINECS-No.	%	Classification
Beta-Methoxyethyl cyanoacrylate 27816-23-5	248-670-5	80 - 100	

**Additional Information:**

For the explanation of the listed risk phrases refer to Section 16.

**3. HAZARDS IDENTIFICATION**

Relevant routes of exposure: Eyes, Lungs, Skin

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

**4. FIRST AID MEASURES**

**Inhalation:** Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air .

**Eye contact:** 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.

**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).

**Skin contact:** 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.

**Notes to physician:** Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Dry powder. Foam. Carbon dioxide.

**Special fire fighting procedures:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Unusual fire or explosion hazards:** None.

**Hazardous combustion products:** Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Ventilate area Prevent products from entering drains

**Clean-up methods:** Do not use cloths for mopping up. Flood with water to complete polymerisation and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## 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 - 8°C (35.6 - 46.4 °F).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Good industrial hygiene practices should be observed.

**Respiratory protection:** Use in well ventilated area.

**Skin protection:** The use of chemical resistant gloves such as Nitrile are recommended . Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber or nylon gloves . Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced .

**Eye/face protection:** Eye protection should be used where there is any risk of splashing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** liquid

**Colour:** Clear. colourless to Straw

**Odour:** Negligible

**pH:** not applicable

<b>Vapour pressure:</b>	Less than 0.2 mm Hg
<b>Boiling point/range:</b>	Greater than 149°C (300°F)
<b>Melting point/range:</b>	not determined
<b>Specific gravity:</b>	1.1 at 23.9°C (75°F)
<b>Vapour density:</b>	Approximately .?
<b>Flash point:</b>	80°C (176°F) to 93.4°C (200°F) Tagliabue closed cup
<b>Autoignition temperature:</b>	not determined
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Polymerises in presence of water
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>VOC content:</b>	<3 % (As defined in the Council Directive 1999/13/EC).

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous polymerisation:</b>	Rapid exothermic polymerisation will occur in the presence of water, amines, alkalis and alcohols.
<b>Hazardous decomposition products:</b>	None
<b>Incompatibility:</b>	Water, amines, alkalis and alcohols.
<b>Conditions to avoid:</b>	Spontaneous polymerisation

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Due to the low volatility of the product there are no hazards associated with inhalation under normal conditions of use.
<b>Skin:</b>	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 unlikely to occur.
<b>Eyes:</b>	Avoid contact with eyes .
<b>Ingestion:</b>	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

<b>Mobility:</b>	Cured adhesives are immobile.
<b>Bioaccumulation:</b>	No data available.
<b>Ecotoxicity:</b>	Biodegradable product of low ecotoxicity. Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.
<b>Persistence and degradability:</b>	Not available
<b>WGK Water Classification (VwVwS):</b>	Not a water pollutant

## 13. DISPOSAL CONSIDERATIONS

### Product

**Disposal methods:** Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.

**European Waste Catalogue:** 08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.

**Packaging Disposal Methods:** Dispose of in authorised landfill site or incinerate.

**Abfallschlüssel number:** Liquid 55905

## 14. TRANSPORT INFORMATION

### ICAO/IATA (Air):

**Identification number:** UN 3334  
**Proper shipping name:** Aviation regulated liquids, n.o.s (Cyanoacrylate ester) Greater than 500 ml  
**Hazard class or division:** 9  
**Packing group:** None

**Exceptions:** (Not more than 500ml) Unrestricted.

### IMO/IMDG (Sea)

**Identification number:** None  
**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Packing group:** None  
**Marine pollutant:** None

### ADR/RID (Road/Rail)

**UN Number:** None  
**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Packing group:** None  
**Classification Code:** None

## 15. REGULATORY INFORMATION

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

### **Risk Phrases:**

S24/25 - Avoid contact with skin and eyes.

### **Additional Labelling:**

None

## 16. OTHER INFORMATION

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