



Material Safety Data Sheet



Revision Date: 08/01/2004  
Issue date: 05/04/2004

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** 401 CA PRISM 100GR  
**Item number:** 16023A  
**Region:** Europe  
**Product type:** Cyanoacrylate  
**Company Name & Address**  
Henkel Loctite Adhesives Ltd,  
Watchmead,  
Welwyn Garden City,  
Herts. AL7 1JB, UK. : +44 1 707 358800  
Fax: +44 1 707 358900  
Emergency Phone No.  
+353-1-4599301/+353-87-2629625/+353-1-4046444

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Nature of product:** Cyanoacrylate Adhesive.

Hazardous components CAS No.	EINECS-No.	%	Classification
Ethyl cyanoacrylate 7085-85-0	230-391-5	80 - 100	Xi;R36/37/38

**Additional Information:**  
For the explanation of the listed risk phrases refer to Section 16.

**3. HAZARDS IDENTIFICATION**

**Relevant routes of exposure:** Eyes, Lungs, Skin

**Potential health effects**  
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**

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

**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.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

Water spray (fog), foam, dry chemical or 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

Hazardous components CAS No.	ACGIH TLV	Austria	Belgium	Czech
Ethyl cyanoacrylate 7085-85-0	0.2 ppm TWA	2 ppm MAK 9 mg/m <sup>3</sup> MAK		

Hazardous components CAS No.	Estonian	Greece	Finland	France	Hungary
Ethyl cyanoacrylate 7085-85-0	= 10 mg/m <sup>3</sup> TWA = 2 ppm TWA = 20 mg/m <sup>3</sup> STEL = 4 ppm STEL				

Hazardous components CAS No.	Germany	Ireland	Netherlands	Portugal
Ethyl cyanoacrylate 7085-85-0		0.2 ppm TWA		0.2 ppm TWA

Hazardous components CAS No.	Poland	Spain	Sweden	UK EH40
Ethyl cyanoacrylate 7085-85-0			10 mg/m <sup>3</sup> LLV 2 ppm LLV 20 mg/m <sup>3</sup> STV 4 ppm STV	0.3 ppm STEL 1.5 mg/m <sup>3</sup> STEL

**Skin protection:** Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber or nylon gloves .

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** liquid

**Colour:** colourless

**Odour:** Sharp. irritating

**pH:** not applicable

**Vapour pressure:** Less than 0.2 mm Hg

**Boiling point/range:** Greater than 149°C (300°F)

**Melting point/range:** not determined

**Specific gravity:** 1.05

**Flash point:** Greater than 80°C (176°F)  
Tagliabue closed cup

**Autoignition temperature:** 485°C (905°F)

**Evaporation rate:** Not available

**Solubility in water:** insoluble. Polymerises in presence of water.

**Solubility - acetone** miscible

**Partition coefficient (n-octanol/water):** Not applicable

**VOC content:** < 3 %

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Hazardous polymerisation:** Rapid exothermic polymerisation will occur in the presence of water, amines, alkalis and alcohols.

**Hazardous decomposition products:** none

**Incompatibility:** Water, amines, alkalis and alcohols.

**Conditions to avoid:** Spontaneous polymerisation

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Irritating to respiratory system. Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals. In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system.
<b>Skin:</b>	Irritating to the skin. 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>	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.
<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>	No data available.
<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

<b>Product Disposal methods:</b>	Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions. Contribution of this product to waste is very insignificant in comparison to article in which it is used .
<b>European Waste Catalogue:</b>	08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.
<b>Packaging Disposal Methods:</b>	Dispose of in authorised landfill site or incinerate.  Liquid 55905

## 14. TRANSPORT INFORMATION

<b>ICAO/IATA (Air):</b>	
<b>Identification number:</b>	UN 3334
<b>Proper shipping name:</b>	Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
<b>Hazard class or division:</b>	9
<b>Exceptions:</b>	(Not more than 500ml) Unrestricted.
<b>IMO/IMDG (Sea)</b>	
<b>Proper shipping name:</b>	Unrestricted
<b>ADR/RID (Road/Rail)</b>	
<b>Proper shipping name:</b>	Unrestricted

## 15. REGULATORY INFORMATION

<b>Labelling</b>	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children
<b>Indication of danger:</b>	Xi - Irritant.



**Risk Phrases:**

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

**Safety Phrases:**

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

S24/25 Avoid contact with skin and eyes.

S23 Do not breathe vapour.

**Additional Labelling:** None

**National regulations:**

**16. OTHER INFORMATION**

**Prepared by:** Dr. Hanns Misiak., Senior HRA Specialist. Health & Regulatory Affairs - Europe

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**Explanation of Section 2 R - Phrases**

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