



## Safety Data Sheet in compliance with Indian Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000

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LOCTITE 406

SDS No. : 422581

V001.2

Revision: 06.02.2018

printing date: 31.03.2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier**

LOCTITE 406

**Material:** 229264

**Relevant identified uses of the substance or mixture and uses advised against**

Intended use:  
Cyanoacrylate

**Identification of manufacturer, importer or distributor:**

Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL : +91 9272203768 FAX : +91 2115 253248, Website www.henkel.com

**Emergency telephone number**

IN HAT: +91 9272203768

In case of any emergency call Poison Information Centre, JSS Hospital, Mysore: Toll Free No: 1800-425-0207/Mobile: +91 8892 42 5667

### SECTION 2: Hazards identification

**Classification of the substance or mixture**

**Classification (DPD):**

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

**Label elements**

**Label elements (DPD):**

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

**Safety 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.

### SECTION 3: Composition/information on ingredients

**Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number	content	Classification
Ethyl 2-cyanoacrylate 7085-85-0	230-391-5	>= 60 - <= 99 %	Xi - Irritant; R36/37/38
Pentafluorobenzonitrile 773-82-0	212-259-9	>= 0,01 - <= 10 %	R10

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.  
Substances without classification may have community workplace exposure limits available.

**Section 4. First aid measures**

<b>Inhalation:</b>	Move to fresh air, consult doctor if complaint persists.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	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).

**Section 5. Fire fighting measures**

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide.
<b>Special protection equipment and precautions for firefighters:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
<b>Hazardous combustion products:</b>	Oxides of carbon, oxides of nitrogen, irritating organic vapors.
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray.

**Section 6. Accidental release measures**

<b>Personal precautions:</b>	Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

**SECTION 7: Handling and storage****Precautions for safe handling**

Avoid contact with eyes, skin and clothing.

Avoid breathing vapors or mists of this product.

Wash thoroughly after handling.

Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Conditions for safe storage, including any incompatibilities**

For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

**Section 8. Exposure controls / personal protection**

Ingredient [Regulated substance]	Value type	ppm	mg/m <sup>3</sup>	Remarks
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**Respiratory protection:** Ensure adequate ventilation.

**Hand protection:** The use of chemical resistant gloves such as Nitrile is 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 protection:** Wear protective glasses.

**Body protection:** Wear suitable protective clothing.

**General protection and hygiene measures:** The workplace should be equipped with an emergency shower and eye-rinsing facility.

**Hygienic measures:** Keep away from food, beverages and animal feed. Wash hands before work breaks and after finishing work. Do not eat, drink, smoke or take snuff while working. Good industrial hygiene practices should be observed.

**SECTION 9: Physical and chemical properties**

<b>Appearance:</b>	liquid
<b>Odor:</b>	No data available.
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point / freezing point:</b>	No data available.
<b>Specific gravity:</b>	1,1
<b>Boiling point:</b>	> 149 °C (> 300.2 °F)
<b>Flash point:</b> (Tagliabue closed cup)	80 - 93 °C (176 - 199.4 °F)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	No data available.
<b>Upper explosive limit:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Solubility:</b>	
<b>Partition coefficient: n-</b>	No data available.

octanol/water:  
**Auto ignition:** No data available.  
**Decomposition temperature:** No data available.  
**Viscosity:** No data available.  
**VOC content:** No data available.

## Section 10. Stability and reactivity

**Reactivity/Incompatible materials:** Water, Amines, Alkalis, Alcohols.  
**Chemical stability:** Stable under normal conditions of temperature and pressure.  
**Possibility of hazardous reactions:** Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.  
**Conditions to avoid:** Stable under normal conditions of storage and use.  
**Hazardous decomposition products:** Oxides of carbon.

## SECTION 11: Toxicological information

### Information on toxicological effects

**General toxicological information:**  
No laboratory animal data available.

### Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

### Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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### Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50	> 2.000 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

### Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	irritating	72 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising		guinea pig	not specified

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

**SECTION 12: Ecological information****General ecological information:**

Do not empty into drains / surface water / ground water.

**Toxicity**

No data available.

**Persistence and degradability**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethyl 2-cyanoacrylate 7085-85-0		aerobic	57 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

**Bioaccumulative potential / Mobility in soil**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethyl 2-cyanoacrylate 7085-85-0	0,776				22 °C	EU Method A.8 (Partition Coefficient)

**Results of PBT and vPvB assessment**

No data available.

**Section 13. Disposal considerations**

**Waste disposal of product:** Dispose of in accordance with local and national regulations.

**Disposal for uncleaned package:** Dispose of in accordance with local and national regulations.

**Section 14. Transport information****Road transport ADR:**

Not dangerous goods

**Railroad transport RID:**

Not dangerous goods

**Inland water transport ADN:**

Not dangerous goods

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Class:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964
UN no.:	3334
Label:	9
Proper shipping name:	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
Additional Information:	Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

**Section 15. Regulations - classification and identification**

No reference to national Indian legislation is to be made, as there are no hazardous ingredient present.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

R10 Flammable.

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

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**

**Disclaimer:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.