

# Safety Data Sheet in compliance with Indian Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, Rule 17, Schedule 9

Page 1 of 5

LOCTITE 415 MSDS-No.: 153533

V001.1

Revision: 24.02.2011 printing date: 31.03.2018

# Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE 415

Material: 233858

**Product category:** Cyanoacrylate

Identification of manufacturer, importer or distributor

Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL: +91 2115

300017 / 18 FAX: +91 2115 253448, Website: www.henkel.com

**Emergency information:** +91 2115 300017-18

## Section 2. Composition / information on ingredients

#### General chemical description:

Cyanoacrylate Adhesive

# Possible risks of product:

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

## Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	EINECS	content	Classification
Methyl 2-cyanoacrylate 137-05-3	205-275-2	80 - 100 %	Xi - Irritant; R36/37/38

#### Section 3. Hazards identification

Hazard classification: Xi - Irritant

Routes of entry: Skin, Inhalation, Eyes

**Health Effects:** R36/37/38 Irritating to eyes, respiratory system and skin.

Skin: Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic

response is rare.

Eye: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

**Inhalation:** Exposure to vapors above the established exposure limit results in respiratory irritation,

which may lead to difficulty in breathing and tightness in the chest.

**Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in

mouth. It is almost impossible to swallow.

MSDS-No.: 153533 LOCTITE 415 Page 2 of 5

V001.1

## Section 4. First aid measures

**Inhalation:** Move to fresh air, consult doctor if complaint persists.

**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.

**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).

## Section 5. Fire fighting measures

**Suitable extinguishing media:** Foam, extinguishing powder, carbon dioxide.

Fine water spray

Special protection equipment for

firefighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

#### Section 6. Accidental release measures

**Personal precautions:** Ensure adequate ventilation.

**Environmental precautions:** Do not let product enter drains.

Clean-up methods: 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

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. 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

ourns.

**Storage:** For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C

(35.6 - 46.4 °F)

MSDS-No.: 153533 LOCTITE 415 Page 3 of 5

V001.1

## Section 8. Exposure controls / personal protection

Ingredient	Type	ppm	mg/m <sup>3</sup>	Remarks
METHYL 2-CYANOACRYLATE	Time Weighted Average	0,2		ACGIH
137-05-3	(TWA):			
METHYL-2-CYANOACRYLATE	Recommended exposure	2	8	NIOSH/GUIDE
137-05-3	limit (REL):			
METHYL-2-CYANOACRYLATE	Short Term Exposure	4	16	NIOSH/GUIDE
137-05-3	Limit (STEL):			

**Respiratory protection:** Ensure adequate ventilation.

**Hand protection:** In circumstances where there is a potential for prolonged or repeated skin contact, the use

of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is

recommended.

The use of chemical resistant gloves such as Nitrile are recommended.

**Eye protection:** Wear protective glasses.

**Engineering controls:** Use positive down-draft exhaust ventilation if general ventilation is insufficient to

maintain vapor concentration below established exposure limits.

**General protection measures:** Good industrial hygiene practices should be observed.

## Section 9. Physical and chemical properties

Appearance: colourless to yellowish

liquid

Odor: irritating
Melting point: Not determined
Relative vapour density: Not available

Specific gravity: 1,09
Auto ignition: Not determined pH: Not available

Boiling point: > 149 °C (> 300.2 °F) Flash point: 80 - 93,3 °C (176 - 199.94 °F)

Vapor pressure: 0,27 mbar Density: 1,0900 g/cm3

Solubility: Solvent: Water, Polymerises in presence of water.

Solvent: Water, Polymerises in presence of water.

## Section 10. Stability and reactivity

**Conditions to avoid:** Stable under normal conditions of storage and use.

Materials to avoid: Water, amines, alkalis and alcohols.

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

alcohols.

## Section 11. Toxicological information

**Acute oral product toxicity:** 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. LD50 (rat) > 5.000 mg/kg

Acute inhalation product toxicity: 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

**Acute dermal product toxicity:** LD50 (rabbit) > 2.000 mg/kg (Estimated)

MSDS-No.: 153533 LOCTITE 415 Page 4 of 5

V001.1

Skin irritation: 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

Eye irritation: Irritating to eyes., Liquid product will bond eyelids. In a dry atmosphere (RH<50%)

vapours may cause irritation and lachrymatory effect

## Section 12. Ecological information

General ecological information: Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

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

**Mobility:** Cured adhesives are immobile.

## Section 13. Disposal considerations

**Product** 

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

**Packaging** 

**Disposal for uncleaned package:** Disposal must be made according to official 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

Packaging group:

Packaging instructions (passenger) 906
Packaging instructions (cargo) 906
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

**Indication of danger:** Xi - Irritant

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

MSDS-No.: 153533 LOCTITE 415 Page 5 of 5

V001.1

**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

dvice.

# Section 16. Other information

**Issue date:** 31.03.2018

**Prepared by:** Sampada Bhat, Manager, Product Safety & Regulatory Affairs.

**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.