

Safety Data Sheet

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Loctite 406

SDS No.: 422581

V001.2

Date of issue: 17.01.2020

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

Product name: Loctite 406

Intended use: Cyanoacry late

Supplier:

Henkel Australia Pty Ltd 135-141 Canterbury Road Kilsyth, Victoria, 3137 Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u> <u>Hazard Category</u> <u>Target organ</u>

Flammable liquids Category 4
Skin irritation Category 2
Serious eye irritation Category 2A
Target Organ Systemic Toxicant - Category 3

arget Organ Systemic Toxicant - Category 3 respiratory tract irritation

Single exposure

Hazard pictogram:

!

Signal word: Warning

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Hazard statement(s): H227 Combustible liquid.

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

 $\label{eq:precautionary Statement} \textbf{Precautionary Statement}(s) :$

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapors, mist, or spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, eye protection, and face protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	60-<=100 %
non hazardous ingredients~		30-<= 60 %

Section 4. First aid measures

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: 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.

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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

cy anoacry late trapped behind the eyelid cause any abrasive damage.

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

First Aid facilities: Eye wash and safety shower
Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

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.

Section 5. Fire fighting measures

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

Fine water spray

Improper extinguishing media: High pressure waterjet

Combustion behaviour: Combustible Liquid

Keep away from heat, spark, and open flames.

Decomposition products in case of

fire:

Thermal decomposition can lead to release of irritating gases and vapors.

carbon monoxide Carbon dioxide. Oxides of nitrogen.

Special protective equipment for

fire-fighters:

Wear full protective clothing.

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

Section 6. Accidental release measures

Personal precautions: Ensure adequate ventilation.

Avoid skin and eye contact. Wear protective equipment.

Environmental precautions: Do not let product enter drains.

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete poly merization and

scrape off the floor. Cured material can be disposed of as non-hazardous waste.

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe 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

burns.

Conditions for safe storage: Store in a cool place in closed original container.

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

(35.6 - 46.4 °F)

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Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear protective glasses.

Skin protection: Protective clothing that covers arms and legs.

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.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the

requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: colourless to yellowish

Odor: liquid irritating
Odor threshold (CA): 1 - 2 ppm
Specific gravity: 1.1

Boiling point: > 149 °C (> 300.2 °F) **Flash point:** 80 - 93 °C (176 - 199.4 °F)

(Tagliabue closed cup)

Vapor pressure: < 0.5 mm hg

Vapor density: 3

Auto ignition: 485 °C

Decomposition temperature:

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Keep away from sources of ignition and naked flames.

Incompatible materials: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

alcohols.

Hazardous decomposition

products:

Thermal decomposition can lead to release of irritating gases and vapors.

carbon monoxide Carbon dioxide. Oxides of nitrogen.

Section 11. Toxicological information

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Health Effects:

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

is almost impossible to swallow.

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. Cyanoacry lates 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.

Eyes: 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.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity)
			dermal			OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate	irritating	72 h	rabbit	OECD Guideline 405 (Acute
7085-85-0				Eve 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	Result	Type of study/	Metabolic	Species	Method
CAS-No.		Route of	activation/		
		administration	Exposure time		
Ethyl 2-cyanoacrylate	negative	bacterial reverse			OECD Guideline 471
7085-85-0	negative	mutation assay (e.g	with and without		(Bacterial Reverse Mutation
	negative	Ames test)	with and without		Assay)
		mammalian cell			OECD Guideline 476 (In vitro
		gene mutation assay			Mammalian Cell Gene
		in vitro mammalian			Mutation Test)
		chromosome			OECD Guideline 473 (In vitro
		aberrationtest			Mammalian Chromosome
					Aberration Test)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

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		-		
Ethyl 2-cyanoacrylate	not readily biodegradable.	aerobic	57 %	OECD Guideline 301 D (Ready
7085-85-0				Biodegradability: Closed Bottle
				Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Ethyl 2-cyanoacrylate	0.776				22 °C	EU Method A.8 (Partition
7085-85-0						Coefficient)

Section 13. Disposal considerations

Waste disposal of product: Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised

landfill or incinerate under controlled conditions.

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in

which it is used

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as

chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the

Australian Code for the Transport of Dangerous Goods by Road and

Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

UN no.: 3334

Proper shipping name: Aviation regulated liquid, n.o.s. (Cy anoacrylate ester)

Class or division: 9
Packing group: III
Packing instructions (passenger) 964
Packing instructions (cargo) 964

Additional Information IATA: Primary packs containing less than 500ml are unregulated by this

mode of transport and may be shipped unrestricted.

Section 15. Regulatory information

SUSMP Poisons Schedule None

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

ASCC - Australian Safety and Compensation Council

SUSDP - Standard for the Uniform Medicines of Drugs and Poisons

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Disclaimer:

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