

Safety Data Sheet

Page 1 of 9

LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive, B

SDS No.: 153522 V001.3

Date of issue: 16.03.2020

respiratory tract irritation

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

Product name: LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive,

Intended use: Cyanoacrylate

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:

Hazard Class	Hazard Category	Target organ
Hazaru Ciass	Hazaru Category	I al get ul gali

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

Single exposure

Acute hazards to the aquatic Category 3

environment

Chronic hazards to the aquatic Category 3

environment

Hazard pictogram:



Signal word:

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known

as 480 Prism® Instant Adhesive, B

Hazard statement(s): H227 Combustible liquid.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

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

No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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 dry sand, dry chemical or alcohol-resistant foam for

extinction.

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.

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 %
phthalic anhydride	85-44-9	<= 1 %
Hydroquinone	123-31-9	< 1 %
non hazardous ingredients~		10- <= 30 %

Section 4. First aid measures

Page 3 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known

as 480 Prism® Instant Adhesive, B

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.

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

cyanoacrylate 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 polymerization 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.

Page 4 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known

as 480 Prism® Instant Adhesive, B

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)

Section 8. Exposure controls / personal protection

National exposure standards:

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: Black

Liquid

Odor: Sharp, 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

(; 25 °C (77 °F))

Vapor density:

3

Approximately

Density: 1.1 g/cm3

Auto ignition: 485 °C

Decomposition temperature:

VOC content: < 2 % < 20 g/l

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

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

Page 5 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known

as 480 Prism® Instant Adhesive, B

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

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. 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.

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	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Ethyl 2-cyanoacrylate	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
7085-85-0	LD50	> 2,000 mg/kg			rabbit	Oral Toxicity)
			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)
phthalic anhydride	LD50	1,530 mg/kg	oral		rat	not specified
85-44-9	LD50	> 10,000 mg/kg			rabbit	not specified
			dermal			
Hydroquinone	LD50	367 mg/kg	oral		rat	OECD Guideline 401 (Acute
123-31-9	LD50	> 2,000 mg/kg			rabbit	Oral Toxicity)
			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Ethyl 2-cyanoacrylate	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute
7085-85-0				Dermal Irritation / Corrosion)
Hydroquinone	not irritating	24 h	rabbit	Weight of evidence
123-31-9				

Serious eye damage/irritation:

	time		Method
iting	72 h	rabbit	OECD Guideline 405 (Acute
ly irritating		rabbit	Eye Irritation / Corrosion) not specified
		ting 72 h	ting 72 h rabbit

Page 6 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive, B

${\bf Respiratory\ or\ skin\ sensitization:}$

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising		guinea pig	not specified
phthalic anhydride 85-44-9	sensitising	in vivo	guinea pig	not specified
phthalic anhydride 85-44-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	Mouse local lymphnode assay (LLNA)
Hydroquinone 123-31-9	sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Hydroquinone 123-31-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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	24 1 24 4		OECD Guideline 471
7085-85-0	negative negative	mutation assay (e.g Ames test)	with and without with and without		(Bacterial Reverse Mutation Assay)
	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
		gene mutation assay			Mammalian Cell Gene
		in vitro mammalian			Mutation Test)
		chromosome			OECD Guideline 473 (In vitro
		aberration test			Mammalian Chromosome
					Aberration Test)
phthalic anhydride	negative	bacterial reverse	with and without		not specified
85-44-9		mutation assay (e.g			
		Ames test)			
Hydroquinone	negative	bacterial reverse	with and without		equivalent or similar to OECD
123-31-9	negative positive	mutation assay (e.g Ames test)	with and without		Guideline 471 (Bacterial Reverse Mutation Assay)
	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)
		mammalian cell			OECD Guideline 476 (In vitro
		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
Hydroquinone	positive	intraperitoneal		mouse	equivalent or similar to OECD
123-31-9	negative	oral: gavage		rat	Guideline 474 (Mammalian
	positive	intraperitoneal		mouse	Erythrocyte Micronucleus
					Test)
					equivalent or similar to OECD Guideline 478 (Genetic
					Toxicology: Rodent Dominant
					Lethal Test)
					equivalent or similar to OECD
					Guideline 483 (Mammalian
					Spermatogonial Chromosome
					Aberration Test)

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive, B

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Hydroquinone 123-31-9	NOAEL=50 mg/kg	oral: gavage	13 w5 d/w	rat	not specified
Hydroquinone 123-31-9	NOAEL=73.9 mg/kg	dermal	13 w6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Section 12. Ecological information

General ecological information:

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
			Study			
phthalic anhydride 85-44-9	LC50	313 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
phthalic anhydride 85-44-9	EC50	68 mg/l	Algae	72 h	Selenastrum sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
phthalic anhydride 85-44-9	EC 50	> 1,000 mg/l	Bacteria	3 h		ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Hydroquinone 123-31-9	LC50	0.638 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroquinone 123-31-9	EC50	0.134 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydroquinone 123-31-9	EC50	0.335 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline
Hydroquinone 123-31-9	EC 50	0.038 mg/l	Bacteria	30 min	succapitata)	not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethyl 2-cyanoacrylate 7085-85-0	not readily biodegradable.	aerobic	57 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
phthalic anhydride 85-44-9		aerobic	90 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Hydroquinone 123-31-9	readily biodegradable	aerobic	75 - 81 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			

Page 8 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known

as 480 Prism® Instant Adhesive, B

Ethyl 2-cyanoacrylate 7085-85-0	0.776		22 °C	EU Method A.8 (Partition Coefficient)
phthalic anhydride 85-44-9	1.6			not specified
Hydroquinone 123-31-9	0.59			EU Method A.8 (Partition 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. (Cyanoacrylate ester)

Class or division: Packing group: Ш 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

AICS: All components are listed or are exempt from listing on the Australian Inventory of

Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

STEL - Short term exposure limit TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1,2,3

Page 9 of 9

SDS No.: 153522 V001.3

LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive, B

Date of previous issue: 10.03.2015

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

The information contained in the Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.