

Safety Data Sheet

Page 1 of 8

SDS No.: 153509

V001.4

Date of issue: 21.04.2020

respiratory tract irritation

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH 20G

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

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH 20G **Product name:**

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

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

environment environment

Chronic hazards to the aquatic

Category 3

Category 3

Hazard pictogram:



Signal word: Warning SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

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: Substance

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	60- <= 100 %
Carbon black	1333-86-4	< 5 %
non hazardous ingredients~		< 10 %

Section 4. First aid measures

Page 3 of 8

SDS No.: 153509

V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

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 8

SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

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: < 60.0000000 Pa

(; 25 °C (77 °F))

Density: 1.1 g/cm3 **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.

Page 5 of 8

SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

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: This product is irritating to the skin.

Bonds skin in seconds.

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.

Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in

sensitive individuals.

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 dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Carbon black 1333-86-4	LD50 LD50	> 8,000 mg/kg > 15,400 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) not specified

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)
Carbon black	not irritating	24 h	rabbit	OECD Guideline 404 (Acute
1333-86-4	-			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)
Carbon black 1333-86-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

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
Carbon black 1333-86-4	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Carbon black 1333-86-4	not sensitising	Respirator y sensitisati on	mouse	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 negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Carbon black 1333-86-4	negative negative negative	bacterial reverse mutation assay (e.g Ames test) sister chromatid exchange assay in mammalian cells mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Carbon black 1333-86-4	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Carbon black 1333-86-4	NOAEL=>= 52 mg/kg	oral: feed	2 ydaily	rat	not specified

Section 12. Ecological information

General ecological information:

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

Harmful to aquatic organisms., May cause long-term adverse effects in the aquatic environment.

Chvirolini

Toxicity:

Ī	Hazardous components	Value	Value	Acute	Exposure	Species	Method
	CAS-No.	type		Toxicity	time		
				Study			

Persistence and degradability:

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

Page 7 of 8

SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

Ethyl 2-cyanoacrylate	not readily biodegradable.	aerobic	OECD Guideline 301 D (Ready
7085-85-0			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	ractor (BCr)	time		22 °C	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: 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

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

Chemical Substances (AICS).

Page 8 of 8

SDS No.: 153509 V001.4

LOCTITE 410 known as LOCTITE 410 PRISM TOUGH

20G

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

GHS: Globally Harmonized System CAS: Chemical Abstracts Service TWA - Time weighted average LD 50: Lethal Dose 50%

LC 50: Lethal Concentration 50%

OECD: Organization for Economic Cooperation and Development

IMDG: International Maritime Dangerous Goods code

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

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1,2,16

Date of previous issue: 13.04.2020

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.