

LOCTITE 495

Safety Data Sheet

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SDS No.: 427632

V001.10

Revision: 16.08.2019 printing date: 18.12.2019

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

Product name: LOCTITE 495

Other means of identification: LOCTITE 495 BO20G EGFD

Product code: IDH195750

Recommended use of the chemical and restrictions on use

Intended use: Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Malaysia Sdn Bhd 46th Floor, Menara TM, Jalan Pantai Baharu, 59200 Kuala Lumpur, Malaysia. Phone

:+ 603 22461000 Fax : + 60322461188

E-mail address of person

responsible for Safety Data

Sheet:

ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call

CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

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

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Specific target organ toxicity - Category 3

single exposure

egory 3 respiratory tract irritation

GHS label elements:

Hazard pictogram:



Signal word: War

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Hazard statement: H315 Causes skin irritation.

> H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precaution:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. **Prevention:**

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/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+P364 Take off contaminated clothing and wash it before reuse.

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

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.

Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Ethyl 2-cyanoacrylate	60- 100 %	Skin corrosion/irritation 2
7085-85-0		H315
		Serious eye damage/eye irritation 2
		H319
		Specific target organ toxicity - single exposure 3
		H335
Hydroquinone	< 0.1 %	Acute toxicity 4; Oral
123-31-9		H302
		Serious eye damage/eye irritation 1
		H318
		Skin sensitizer 1
		H317
		Germ cell mutagenicity 2
		H341
		Carcinogenicity 2
		H351
		Acute hazards to the aquatic environment 1
		H400

Section 4. First aid measures

Inhalation: Move to fresh air, consult doctor if complaint persists. SDS No.: 427632 Page 3 of 10

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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).

Indication of immediate medical attention and special treatment

needed:

See section: Description of first aid measures

Section 5. Fire fighting measures

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

Fine water spray

Specific hazards arising from the

chemical:

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides

(NOx) can be released.

Special protection equipment and

precautions for firefighters:

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

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: Ventilation (low level) is recommended when using large volumes

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact

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

(35.6 - 46.4 °F)

Refer to Technical Data Sheet

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Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ETHYL CYANOACRYLATE 7085-85-0	Value type	Time Weighted Average (TWA):
	ppm	0.2
	Remarks	MY OEL
CYANOACRYLATES, ETHYL AND METHYL 7085-85-0	Value type	Short Term Exposure Limit (STEL):
	ppm	1
	Remarks	ACGIH
CYANOACRYLATES, ETHYL AND METHYL 7085-85-0	Value type	Time Weighted Average (TWA):
	ppm	0.2
	Remarks	ACGIH
HYDROQUINONE 123-31-9	Value type	Time Weighted Average (TWA):
	mg/m ³	1
	Remarks	ACGIH
HYDROQUINONE 123-31-9	Value type	Time Weighted Average (TWA):
	mg/m ³	2
	Remarks	MY OEL

Respiratory protection: Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if

the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Chemical-resistant protective gloves (EN 374). Hand protection:

Suitable materials for short-term contact or splashes (recommended: at least protection

index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6,

corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; \geq = 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

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.

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk

of splashing.

Protective eye equipment should conform to EN166.

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

Eye protection:

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for

dusts.

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> Ensure good ventilation/extraction. **Engineering controls:**

General protection and hygiene

measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while Hygienic measures:

working. Good industrial hygiene practices should be observed.

Section 9. Physical and chemical properties

Appearance: colourless to yellowish

liquid

Odor: No data available. Odor threshold (CA): No data available. No data available. pH: **Melting point / freezing point:** No data available. Specific gravity: No data available. > 149 °C (> 300.2 °F) **Boiling point:** 80 - 93 °C (176 - 199.4 °F) Flash point:

Evaporation rate: No data available. Flammability (solid, gas): No data available. Lower explosive limit: No data available. **Upper explosive limit:** No data available. < 700 mbar Vapor pressure:

(no method; 50 °C (122 °F))

No data available. Vapor density: Density: No data available.

Solubility: Polymerises in presence of water. No data available.

Partition coefficient: n-

octanol/water:

No data available. Auto ignition: **Decomposition temperature:** No data available. Viscosity: No data available.

VOC content: < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible

materials:

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

alcohols.

Chemical stability: Stable under recommended storage conditions. Conditions to avoid: Stable under normal conditions of storage and use.

Hazardous decomposition

products:

None if used for intended purpose.

Section 11. Toxicological information

EYE: Irritation, conjunctivitis. Symptoms of Overexposure:

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

Acute oral toxicity:

Ethyl 2-cyanoacrylate	Value type	LD50	
7085-85-0	Value	> 5,000 mg/kg	
	Species	rat	
	Method	OECD Guideline 401 (Acute Oral Toxicity)	
Hydroquinone	Value type	LD50	
123-31-9	Value	367 mg/kg	
	Species	rat	
	Method	OECD Guideline 401 (Acute Oral Toxicity)	

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Acute dermal toxicity:

Ethyl 2-cyanoacrylate	Value type	LD50
7085-85-0	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Hydroquinone	Value type	LD50
123-31-9	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Ethyl 2-cyanoacrylate	Result	slightly irritating
7085-85-0	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydroquinone	Result	not irritating
123-31-9	Exposure time	24 h
	Species	rabbit
	Method	Weight of evidence

Serious eye damage/irritation:

Ethyl 2-cyanoacrylate	Result	irritating
7085-85-0	Exposure time	72 h
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Ethyl 2-cyanoacrylate	Result	not sensitising
7085-85-0	Test type	
	Species	guinea pig
	Method	not specified
Hydroquinone	Result	sensitising
123-31-9	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Hydroquinone	Result	sensitising
123-31-9	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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Germ cell mutagenicity:

Ethyl 2-cyanoacrylate	Result	negative
7085-85-0	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	, ,
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethyl 2-cyanoacrylate	Result	negative
7085-85-0	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
Ethyl 2-cyanoacrylate	Result	negative
7085-85-0	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydroquinone	Result	negative
123-31-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial
		Reverse Mutation Assay)
Hydroquinone	Result	negative
123-31-9	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome
		Aberration Test)
Hydroquinone	Result	positive
123-31-9	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
Hydroquinone	Result	positive
123-31-9	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474
		(Mammalian Erythrocyte Micronucleus Test)
Hydroquinone	Result	negative
123-31-9	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 478 (Genetic
TT 1 '	D. I.	Toxicology: Rodent Dominant Lethal Test)
Hydroquinone	Result	positive
123-31-9	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test)

Repeated dose toxicity:

Hydroquinone	Result	NOAEL=50 mg/kg
123-31-9	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 w5 d/w
	Species	rat
	Method	not specified
Hydroquinone	Result	NOAEL=73.9 mg/kg
123-31-9	Route of application	dermal
	Exposure time / Frequency of treatment	13 w6 h/d, 5 d/w
	Species	rat
	Method	equivalent or similar to OECD Guideline 411 (Subchronic
		Dermal Toxicity: 90-Day Study)

Section 12. Ecological information

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

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

Toxicity:

Hydroquinone	Value type	LC50
123-31-9	Value	0.638 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroquinone	Value type	EC50
123-31-9	Value	0.134 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydroquinone	Value type	EC50
123-31-9	Value	0.335 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydroquinone	Value type	EC 50
123-31-9	Value	0.038 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified

Persistence and degradability:

Ethyl 2-cyanoacrylate	Result	not readily biodegradable.
7085-85-0	Route of application	aerobic
	Degradability	57 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Hydroquinone	Result	readily biodegradable
123-31-9	Route of application	aerobic
	Degradability	75 - 81 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed
		Bottle Test)

Bioaccumulative potential / Mobility in soil:

Ethyl 2-cyanoacrylate	LogPow	0.776
7085-85-0	Temperature	22 °C
	Method	EU Method A.8 (Partition Coefficient)
Hydroquinone	LogPow	0.59
123-31-9	Temperature	
	Method	EU Method A.8 (Partition Coefficient)

Section 13. Disposal considerations

Product

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

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

Packaging

Disposal of uncleaned packages: 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.

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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: Packing group: Ш 964 Packaging instructions (passenger): Packaging instructions (cargo): 964 UN no .: 3334 Label: 9

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

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

Regulatory Information: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous

Chemicals) Regulations 2013 [P.U.(A) 310/213]

Industry Code of Practice on Chemicals Classification and Hazard Communication

Global inventory status:

Notification Regulatory list **TSCA** ves

NDSL yes **IECSC** yes ISHL (JP) yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/213] only. 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. 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.

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