



Safety Data Sheet

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LOCTITE® 404™ INSTANT ADHESIVE QUICK SET™ P/N
46551

MSDS-No. : 153514
V001.5

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

Product name: LOCTITE® 404™ INSTANT ADHESIVE QUICK SET™ P/N 46551

Product code: IDH135465

Recommended use of the chemical and restrictions on use

Intended use: Cyanoacrylate

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: MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Skin irritation	Category 2	
Serious eye irritation	Category 2	
Specific target organ toxicity - single exposure	Category 3	respiratory tract irritation

GHS label elements:

Hazard pictogram:



Signal word:

Warning

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

Precautionary statements:

Prevention: P261 Avoid breathing vapours.
P280 Wear protective gloves, eye protection, and face protection.

Response: 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.

Section 3. Composition / information on ingredients**Substance or Mixture:**

Mixture

Declaration of hazardous chemical:

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

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).

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

Special protection equipment and precautions 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: 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)

Section 8. Exposure controls / personal protection**Components with specific control parameters for workplace:**

ETHYL CYANOACRYLATE 7085-85-0	Type	Time Weighted Average (TWA):
	ppm	0,2
	Remarks	ACGIH
ETHYL CYANOACRYLATE 7085-85-0	Type	Time Weighted Average (TWA):
	ppm	0,2
	Remarks	MY OEL
HYDROQUINONE 123-31-9	Type	Time Weighted Average (TWA):
	mg/m ³	1
	Remarks	ACGIH
HYDROQUINONE 123-31-9	Type	Time Weighted Average (TWA):
	mg/m ³	2
	Remarks	MY OEL

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 is recommended.**Eye protection:** Wear protective glasses.**Body protection:** Wear suitable protective clothing.**General protection and hygiene measures:** Good industrial hygiene practices should be observed.**Section 9. Physical and chemical properties**

Appearance:	colourless liquid
Odor:	irritating
Odor threshold (CA):	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Specific gravity:	1,09
Boiling point:	> 149 °C (> 300.2 °F)
Flash point: (Tagliabue closed cup)	80 - 93 °C (176 - 199.4 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	< 0,266 mbar
Vapor density:	No data available.
Density:	No data available.
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (1999/13/EC)	< 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Conditions to avoid:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	None if used for intended purpose.

Section 11. Toxicological information

Symptoms of Overexposure:	EYE: Irritation, conjunctivitis. SKIN: Redness, inflammation. RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.
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Acute oral toxicity:

Ethyl 2-cyanoacrylate 7085-85-0	Value type	LD50
	Value	> 5.000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Hydroquinone 123-31-9	Value type	LD50
	Value	367 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

Ethyl 2-cyanoacrylate 7085-85-0	Value type	LD50
	Value	> 2.000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Ethyl 2-cyanoacrylate 7085-85-0	Result	slightly irritating
	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

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

Respiratory or skin sensitization:

Ethyl 2-cyanoacrylate 7085-85-0	Result	not sensitising
	Test type	
	Species	guinea pig
	Method	
Hydroquinone 123-31-9	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	

Germ cell mutagenicity:

Ethyl 2-cyanoacrylate 7085-85-0	Result	negative
	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 7085-85-0	Result	negative
	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 7085-85-0	Result	negative
	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 123-31-9	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.13/14 (Mutagenicity)

Repeated dose toxicity:

Hydroquinone 123-31-9	Result	NOAEL=>= 250 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	14 days 5 days/week. 12 doses
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Hydroquinone 123-31-9	Result	LOAEL=<= 500 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	14 days 5 days/week. 12 doses
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

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.

Toxicity:

Hydroquinone 123-31-9	Value type	LC50
	Value	0,17 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroquinone 123-31-9	Value type	EC50
	Value	0,29 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	
Hydroquinone 123-31-9	Value type	EC50
	Value	0,335 mg/l
	Acute Toxicity Study	Algae
	Exposure time	3 d
	Species	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Ethyl 2-cyanoacrylate 7085-85-0	Result	
	Route of application	aerobic
	Degradability	57 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Hydroquinone 123-31-9	Result	readily biodegradable
	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 7085-85-0	LogKow	0,776
	Temperature	22 °C
	Method	EU Method A.8 (Partition Coefficient)
Hydroquinone 123-31-9	LogKow	1,03
	Temperature	
	Method	

Section 13. Disposal considerations**Product****Method of disposal:**

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

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.

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
Packing group:	III
Packaging instructions (passenger):	964
Packaging instructions (cargo):	964
UN no.:	3334
Label:	9
Proper shipping name:	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

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:

Regulatory list	Notification
TSCA	yes
AICS	yes
DSL	yes
ENCS (JP)	yes
PICCS (PH)	yes
IECSC	yes

Section 16. Other information

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.