

Safety Data Sheet

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LOCTITE 454 INSTANT ADHESIVE GEL known as Loctite 454

SDS No.: 649680 V001.0

Revision: 24.04.2024 printing date: 29.08.2024

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE 454 INSTANT ADHESIVE GEL known as Loctite 454

Intended use: Adhesive

Supplier:

Henkel New Zealand Ltd

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SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO). Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

Hazard ClassHazard CategoryTarget organFlammable liquidsCategory 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.

Precautionary Statement(s):

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

No smoking.

P261 Avoid breathing mist/vapours.

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

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.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam 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.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	70- < 90 %
non hazardous ingredients~		<= 10 %

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.

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.

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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.

SECTION 5. FIRE FIGHTING MEASURES

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

Fine water spray

Improper extinguishing media: None known

Particular danger in case of fire: In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

In case of fire, keep containers cool with water spray.

Special protective equipment for

fire-fighters:

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

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Avoid contact with skin and eyes. Wear protective equipment.

Environmental precautions: Do not empty into drains / surface water / ground water.

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.

SECTION 7. HANDLING AND STORAGE

Precautions for safe 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

Avoid skin and eye contact. See advice in section 8

Conditions for safe storage: Storage at 2 to 8°C is recommended.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

None

Biological Exposure Indices:

None

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Eye protection: Safety goggles or safety glasses with side shields.

Full face protection should be used if the potential for splashing or spraying of product

exists.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon

or cotton.

Suitable protective gloves.

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

liquid

Odor: irritating

pH: Not applicable, Product reacts with water.

Melting point / freezing point: Not applicable, Product is a liquid

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

Vapor pressure: < 0.5 mm hg (no method / method unknown; < 700 mbar

20 °C (68 °F)no method / method unknown; 50 °C (122 °F))

Vapor density: > 1

Density: 1.05 g/cm3

Viscosity (dynamic): 18,000.00 - 40,000.00 mPa.s(BROOKFIELD WITH HELIPATH; Instrument: RVT; 25 °C

(77 °F); speed of rotation: 20 min-1; Spindle No: TC; Method: ;; LCT STM 10;

Viscosity Brookfield)

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

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

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

alcohols.

Hazardous decomposition

products:

None if used for intended purpose.

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. 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	equivalent or similar to OECD
7085-85-0	LD50	> 2,000 mg/kg			rabbit	Guideline 423 (Acute Oral
			dermal			toxicity)
						equivalent or similar to OECD
						Guideline 402 (Acute Dermal
						Toxicity)

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	irritating	unic	rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising	Skin sensitisati	guinea pig	not specified
		on		

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) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

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SECTION 12. ECOLOGICAL INFORMATION

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

Ecotoxicity:

Persistence and degradability:

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

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Land Transport:

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

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.

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SECTION 15.

REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002657

NZIoC: All components are listed or are exempt from listing on the New Zealand Inventory of

Chemicals (NZIoC)

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: HSNO - Hazardous Substances and New Organisms

GHS: Globally Harmonized System CAS: Chemical Abstracts Service

IMDG: International Maritime Dangerous Goods code

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

Reason for issue: First issue. involved chapters: 1-16

Disclaimer:

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