



MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE 401 INSTANT ADHESIVE known as 401 INSTANT ADH 25ML FOR L/AUS

Intended use: Cyanoacrylate

Supplier:

Henkel New Zealand Ltd
2 Allens Rd
2013 Auckland

New Zealand

Phone: +64 (9) 272-6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Not Classified as Dangerous Goods according to NZS 5433: 2007 and the Land Transport Rule: Dangerous Goods 2005.

HSNO Classification:

3.1D Class 3 - Flammability, Subclass 3.1 - Liquids, Hazard Classification D
Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A
Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A

Hazard Statements:

Hazard statement: H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements:

Prevention: P210 Keep away from open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/eye protection.
P264 Wash skin thoroughly after handling.

Response: P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Storage: P403+P235 Store in a well-ventilated place. Keep cool.

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.

Signal word: Warning



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:
Cyanoacrylate Adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	> 60 %

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:	If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. 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.
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 Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	High pressure waterjet
Decomposition products in case of fire:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures:	See advice in section 8 Avoid contact with skin and eyes.
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.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Use only in well-ventilated areas. Use personal protective equipment as described in Section 8. Use of dispensing equipment is recommended to minimise the risk of skin or eye contact
Conditions for safe storage:	Store in a cool, dry, well-ventilated area. For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F) Keep away from heat and direct sunlight. Keep container tightly sealed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:	
	None
Engineering controls:	General room ventilation is usually adequate. Provide local ventilation for prolonged use in a confined area.
Eye protection:	Safety goggles or safety glasses with side shields.
Skin protection:	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.
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 to yellowish
Odor:	Liquid Sharp
Density:	1.1 g/cm ³
Flash point:	80 - 93.4 °C (176 - 200.12 °F)
Solubility:	Solvent: Water, Polymerises in presence of water.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of temperature and pressure.
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Conditions to avoid:	Extremes of temperature. Polymerizes on contact with moisture.
Incompatible materials:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Hazardous decomposition products:	In case of fire toxic gases can be released. carbon oxides.

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:	Causes skin irritation. Bonds skin in seconds.
Eyes:	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
Inhalation:	Causes respiratory tract irritation.
Aggravated medical condition:	Pre-existing skin, eye and respiratory allergies.

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)

SECTION 12. ECOLOGICAL INFORMATION

General ecological information:	Do not empty into drains / surface water / ground water. Biodegradable product of low ecotoxicity.
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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.
Disposal for uncleaned package:	Packaging that cannot be cleaned are to be disposed of in the same manner as the product.



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SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Not Classified as Dangerous Goods according to NZS 5433: 2007 and the Land Transport Rule: Dangerous Goods 2005.

Hazchem code: 2Z

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: Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Approval Number: HSR002567

Site and Storage: Refer to the site and storage requirements for this Group Standard.

NZIoC: Not Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms

Reason of change: New Safety Data Sheet format. involved chapters: 1-16

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Disclaimer:



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