



MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: LOCTITE 416 SUPER BONDER

Proper Shipping Name: AVIATION REGULATED LIQUID, N.O.S. (CYANOACRYLATE ESTER)
Note: Applicable for air transport only.

Other Name(s): LOCTITE 416 HIGH STRENGTH MEDIUM VISCOSITY INSTANT ADHESIVE, SUPER BONDER 416 INSTANT ADHESIVE

Product Code(s): 461520

Part Number(s): 37073 (25 ml)

Use: Cyanoacrylate adhesive

Supplier: HENKEL AUSTRALIA PTY. LIMITED ABN 82 001 302 996
TECHNOLOGIES
135-141 Canterbury Road, Kilsyth, Victoria, 3137. Tel:(03) 9724 6444
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SECTION 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:
Hazardous according to the criteria of NOHSC. This material has been classified as Irritant (Xi).

Risk Phrase(s):
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrase(s):
S2 Keep out of reach of children.
S23 Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of soap suds.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

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).

Classified as Dangerous Goods for air transport only.

SUSDP POISON SCHEDULE: 5

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ethyl cyanoacrylate	[7085-85-0]	> 70% w/w



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SECTION 4. FIRST AID MEASURES

- Ingestion:** For advice, contact a Poisons Information Centre (Phone 13 11 26) or a doctor. 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 affected area 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 fingers stick together, apply a solvent such as acetone to contact areas, then wash off with water. Do not use solvents near eyes or open wounds.
- 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:** Remove affected person to fresh air. For all but the most minor symptoms, arrange for patient to be seen by a doctor.
- Advice to doctor:** Treat symptomatically.
- First Aid facilities:** Eye wash and normal washroom facilities.

SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Dry powder, foam or carbon dioxide.
- Hazards from combustion products:** Under fire conditions, it may release toxic fumes.
- Precautions for fire fighters and special protective equipment:** If there is a risk of exposure to products of combustion, fire-fighters should wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Do not use cloths for mopping up. Polymerise with water and scrape up. For large spills, wear protective gloves, chemical goggles and waterproof boots. Collect spillage with inert absorbent materials (e.g. sand, earth, vermiculite). Transfer to sealable containers suitable for storing spilled material. Clean and flush areas in contact with spilled material with adequate warm soapy water to render the area safe for human contact. Note: Residues are not water soluble. Do not contaminate watercourse. Dispose of solid residues in chemical disposal area in accordance with relevant State and Federal requirements.

SECTION 7. HANDLING AND STORAGE

Safe Handling: Observe recommendations made under SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION. Use in a well ventilated area. Handle carefully. This product will bond instantly in the presence of moisture.



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Storage: Store indoors in a cool, dry and well ventilated area. Keep containers sealed when not in use. Store in original containers. Protect from physical damage. For optimum shelf life, store in original containers under refrigerated conditions at 2°C -10°C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: TWA: 0.2 ppm (ACGIH) as for ethyl cyanoacrylate.

Engineering controls: None required under normal conditions of use. In confined areas, a local mechanical exhaust system is recommended.

Personal protective equipment: Use good industrial hygiene. Avoid contact with skin and eyes. Wear overalls, polyethylene or polypropylene gloves and safety glasses with side shields. Do not use PVC, rubber, nylon or cotton gloves. Use in a well ventilated area. If inhalation risk exists, wear a respirator complying with the requirements of AS 1715 and AS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical data:

Appearance:	Clear liquid.
Solubility:	Not miscible with water (soluble in acetone)
Flash point (PMCC):	> 70°C
Odour:	Sharp, characteristic
Specific gravity:	1.02 @ 20°C

SECTION 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: Avoid open flames and heat. Polymerisation will occur in the presence of moisture.

Incompatible materials: Keep away from strong oxidising agents.

Hazardous decomposition products: Combustible material. In a fire, it may release toxic fumes.

Other reactions: May polymerise if exposed to alkalis, acids, alcohols and peroxides.

SECTION 11. TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

Acute:

Ingestion: Cyanoacrylates are considered to have relatively low toxicity. This product will rapidly polymerise in the mouth.

Skin: Irritating to skin. Bonds skin in seconds.

Eyes: Contact with the eyes will cause irritation. This product will bond eyelids. In a dry atmosphere with less than 50% relative humidity, vapours may irritate the eyes.

Inhalation: Inhalation of vapours can cause respiratory irritation.

Chronic: Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.

Toxicity information: Oral LD₅₀ (rat) : > 5000 mg/kg as for cyanoacrylates.



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SECTION 12. ECOLOGICAL INFORMATION

Do not allow product to contaminate waterways or soil. This product is biodegradable.

SECTION 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Polymerise by adding slowly to water (10:1). Dispose of solid residues at approved land waste site. Containers should be drained and residues be allowed to cure prior to disposal at approved landfill site.

SECTION 14. TRANSPORT 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).

Classified as Dangerous Goods for air transport only. The appropriate air transport requirements shall apply.

U.N. Number: 3334
Proper Shipping Name: AVIATION REGULATED LIQUID, N.O.S. (CYANOACRYLATE ESTER)
Class: 9
Packing Group: -
Hazchem Code: -

SECTION 15. REGULATORY INFORMATION

SUSDP POISON SCHEDULE: 5

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms:

NOHSC - National Occupational Health and Safety Commission
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons
TWA - Time-weighted average.
ACGIH – American Conference of Governmental Industrial Hygienists.

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.

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