



MATERIAL SAFETY DATA SHEET

Date of Issue: May 2006

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ChemTools 8414 Cyanoacrylate Adhesive
Product Type: Cyanoacrylate Adhesive
Company Address: ChemTools Pty. Ltd., PO Box 4319, Penrith, NSW 2750
Ph: 02 4635 3746
EMERGENCY PHONE: Australia: Poisons Information Centre 13 1126
International: Infotrac (708) 918 1900

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS #	%	ACGIH TLV	OSHA PEL
ethyl cyanoacrylate ester	7085-85-0	90-95	0.2 ppm TWA	None
hydroquinone	123-31-9	0.1-1	2mg/m ³ TWA	2mg/m ³ TWA 4mg/m ³ STEL

3. HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the classification of NOHSC. This material is 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.

Relevant routes of exposure: Skin, Inhalation, Eyes
Potential Health Effects
Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation or burns. Bonds skin rapidly and strongly.
Eye contact: Contact with eyes will cause irritation. Vapour irritating to eyes and mucous membranes above TLV
Ingestion: Not expected to be harmful by ingestion.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact: Wash with soap and water. Do not pull bonded skin apart. It may be peeled apart using a blunt object (eg a spoon).
Acetone may be used to dissolve the cured adhesive. Remove contaminated clothing and shoes.
Wash clothing before reuse.
Get medical attention if symptoms occur.
Eye contact: Flush with copious amounts of water, preferably lukewarm, for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 70°C (160°F) Tag closed cup
Auto ignition temperature: Not available
Flammable/Explosive limits-lower %: Not determined
Flammable/Explosive limits-upper %: Not determined
Extinguishing media: Foam, dry chemical or carbon dioxide.
Special fire fighting procedures: None
Unusual fire or explosion hazards: None
Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Polymerise with water and scrape up. Use PPE if spill is large. Prevent product from entering drains or open waters.

Clean-up methods: Soak up with inert absorbent material (eg sand, earth, vermiculite). Store in a partly filled, closed container until disposal. Dispose of solid residues in accordance with relevant State and Federal requirements.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.

Storage: For safe storage, store at or below 24°C (75°F). Keep in a cool, well ventilated area away from heat, Sparks and open flame. Keep container tightly closed until ready for use.

Incompatible products: Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Clear

Odour: Mild

Vapour pressure: Less than 5 mm Hg at 27°C (80°F)

pH: Not applicable

Boiling point/range: Greater than 149°C (300°F)

Melting point/range: Not available

Specific gravity: 1.1 at 23.9°C (75°F)

Vapour density: Not available

Evaporation rate: Not available

Solubility in water: Slight. Polymerises in the presence of water.

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

Incompatibility: Strong oxidizers. Free radical initiators. Strong reducing agents. Alkalies. Oxygen scavengers. Other polymerisation initiators. Copper. Iron. Zinc. Aluminium. Rust.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Acute:

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

Skin: Irritating to the skin. Bonds skin rapidly.

Eyes: Contact with the eyes will cause irritation. The material will bond eyelids. In a dry atmosphere, 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.

Product toxicity data: Acute oral LD50 greater than 5,000 mg/kg (rat). Acute dermal LD50 greater than 2,000 mg/kg (rabbit).

12. ECOLOGICAL INFORMATION

Ecological information: Do not allow material to contaminate the soil or waterways.



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13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.
EPA hazardous waste number: Not a RCRA hazardous waste.

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.

UN Number: 3334
Proper Shipping Name: Aviation Regulated Liquid, N.O.S. (Contains Cyanoacrylate Ester)
Class: 9
Packing Group: -
Hazchem Code: -

15. REGULATORY INFORMATION

SUSDP Poison Schedule: 5

16. OTHER INFORMATION

Abbreviations/Acronyms:

NOHSC – National Occupational Health and Safety Commission.
NIOSH – National Institute of Occupational Health and Safety.
ACGIH – American Conference of Government Industrial Hygienists.
SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons.
TWA – Time Weighted Average
TLV – Threshold Limit Value.
STEL – Short Term Exposure Limit
PEL – Permissible Exposure Limit

DISCLAIMER:

The information contained within this MSDS applies only to the ChemTools product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purpose other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user. This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.