



A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

8414 MODIFIED ETHYL CYANOACRYLATE ADHESIVE

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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Product Name: Modified Ethyl Cyanoacrylate Adhesive
Product Type: Cyanoacrylate Adhesive
Part Number: 8414
Available Sizes: 8414-20 (20 g)
8414-50 (50 g)
8414-500 (500 g)

SECTION 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	2 mg/m ³ TWA	2 mg/m ³ TWA 4 mg/m ³ STEL

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the classification of NOHSC. This material is classified as Irritant (Xi)

Risk Phrases: R36/37/38 - Irritating to eyes respiratory system and skin

Safety Phrases: 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 TLV.
Ingestion:	Not expected to be harmful by ingestion.

SECTION 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 clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Eye Contact:	Flush with copious amounts of water, preferably lukewarm water 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.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point:	Greater than 70°C (160°F) Tag Closed Cup
Autoignition 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.

SECTION 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.

SECTION 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 <i>Section 10 - Stability and Reactivity</i>

SECTION 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.
Exposure Limits:	Refer to <i>Section 2 - Composition/Information on Ingredients</i>

SECTION 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.

SECTION 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:	Refer to <i>Section 7 - Handling and Storage</i> Refer to 'Incompatibility', this section, above

SECTION 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)
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SECTION 12 - ECOLOGICAL INFORMATION

Do not allow material to contaminate the soil or waterways.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

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.

UN Number: 3334
Proper Shipping Name: Aviation Regulated Liquid, N.O.S. (Contains 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
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 purposes 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.