



**Revision Number: 002.2** Issue date: 04/01/2013

#### 1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Item number:

499 Super Bonder® Instant Adhesive Product name:

Product type: Cyanoacrylate

Region: Company address: **Contact information:** Henkel Corporation Telephone: 860.571.5100

MEDICAL EMERGENCY Phone: Poison Control Center One Henkel Way

Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

231344

21924 **United States** 

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state: Gel, Liquid HEALTH: 2 Colorless, Straw FLAMMABILITY: 2 Color: Odor: Sharp, Irritating PHYSICAL HAZARD: 1

See MSDS Section 8 **Personal Protection:** 

WARNING: COMBUSTIBLE LIQUID AND VAPOR.

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.

BONDS SKIN IN SECONDS.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

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.

Skin contact: 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.

Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Eye contact:

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It

is almost impossible to swallow.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Treated fumed silica	67762-90-7	5 - 10
Thickener	Proprietary	5 - 10

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart

using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or

roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical

attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized

cyanoacrylate trapped behind the eyelid caused abrasive damage.

**Ingestion:** Ensure breathing passages are not obstructed. The product will polymerize

rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from

swallowing any separated mass.

Notes to physician: Surgery is not necessary to separate accidentally bonded tissues. Experience

has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

symptomatically after adhesive is removed.

## 5. FIRE FIGHTING MEASURES

Flash point: 80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup

Autoignition temperature: 485 °C (905°F)

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper: Not determined

Extinguishing media: Carbon dioxide. foam Dry powder. Water spray or fog.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: None

Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of

breathing apparatus is recommended.

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways. Ventilate area.

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.

## 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Thickener	None	None	None	None

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient

to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Gel, LiquidColor:Colorless, StrawOdor:Sharp, IrritatingOdor threshold:1 - 2 ppmpH:Not applicableVapor pressure:< 0.2 mm hg</th>

Vapor pressure: < 0.2 mm hg
Boiling point/range: > 300 °F (> 148.9 °C)
Melting point/ range: Not determined
Specific gravity: 1.1 at 75 °F (23.89 °C)
Vapor density: 3 Approximately

Flash point: 80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined Autoignition temperature: 485 °C (905°F) Evaporation rate: Not available.

**Solubility in water:** Polymerises in presence of water.

Solubility in water: Soluble Partition coefficient (n-octanol/water): Not applicable

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VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

## 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines,

alkalis and alcohols.

Hazardous decomposition products: None

**Incompatible materials:**Water, amines, alkalis and alcohols.

Conditions to avoid: Spontaneous polymerization.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Treated fumed silica	No	No	No
Thickener	No	No	No

Hazardous components	Health Effects/Target Organs		
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory		
Treated fumed silica	Irritant		
Thickener	Irritant		

## 12. ECOLOGICAL INFORMATION

Ecological information: Not known.

#### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:**Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

#### **U.S. Department of Transportation Ground (49 CFR)**

**Proper shipping name:** Combustible liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: III

### International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: 9
Identification number: UN 3334
Packing group: III

**Exceptions:** Primary packs containing less than 500ml are unregulated by this mode of

transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division:

Identification number:

Packing group:

None

## 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA 313: None above reporting de minimis

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

IDH number: 231344

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

WHMIS hazard class: B.3, D.2.B

#### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Reviewed MSDS. Reissued with new date.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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