# **Safety Data Sheet**



Revision Number: 003.0

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type:

**Restriction of Use:** 

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Cyanoacrylate

None identified

IDH number:

233780

Item number: 41404 Region: United States **Contact information:** Telephone: (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 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

## 2. HAZARDS IDENTIFICATION

WARNING:	

EMERGENCY OVERVIEW BONDS SKIN IN SECONDS. COMBUSTIBLE LIQUID. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
EYE IRRITATION	2B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)	

#### **Precautionary Statements**

Prevention:	Keep away from heat,sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage: Disposal:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
IDH number: 233780	Product name: LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Page 1 of 6

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Thickener	Proprietary	5 - 10

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES			
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.		
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.		
Symptoms:	See Section 11.		
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		
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.		
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:

Product name: LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Page 2 of 6

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:	Ventilate area. Do not allow product to enter sewer or waterways.
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. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 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.

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

For safe storage, store between 0 °C (32°F) and 10 °C (50°F)

Keep container tightly closed until ready for use.

Storage:

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	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 an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.			
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.			
Skin protection:	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.		ontact. Do not use	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

Physical state:
Color:
Odor:
Odor threshold:
pH:
Vapor pressure:
Boiling point/range:
Melting point/ range:
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:

Colorless Irritating 1 - 2 ppmNot applicable < 0.5 mm hg (25 °F (-3.9 °C))> 149 °C (> 300.2 °F)Not determined 1.06 at 68 °F (20°C)Not available. 80 - 93 °C (176°F - 199.4 °F)Not determined

IDH number: 233780

Product name: LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Page 3 of 6 Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature: Not determined 485 °C (905°F) Not available. Polymerises in presence of water. Not determined < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated) Not available. Not available.

# **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.	
Reactivity:	Not available.	
Conditions to avoid:	Spontaneous polymerization.	
11. TOXICOLOGICAL INFORMATION		

Skin, Inhalation, Eyes

### Relevant routes of exposure:

#### **Potential Health Effects/Symptoms**

Inhalation:	May cause respiratory tract irritation. 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:	May cause skin irritation. Bonds skin in seconds. 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.
Eye contact:	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
Ingestion:	Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

LD50s and LC50s	Immediate and Delayed Health Effects
None	Irritant, Allergen, Respiratory
None	Irritant
	None

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Thickener	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

IDH number: 233780

Product name: LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Page 4 of 6

Recommended method of disposal:	prmation provided is for unused product only.	
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Users data seconda a seconda a	Follow all local, state, federal and provincial regulations for disposal.	
Hazardous waste number:	Not a RCRA hazardous waste.	
14. TRANSPORT INFORMATION		
The transport information provided in package/configuration.	this section only applies to the material/formulation itself, and is not specific to any	
U.S. Department of Transportation Gro Proper shipping name: Hazard class or division: Identification number: Packing group:	Dund (49 CFR) Combustible liquid, n.o.s. (Cyanoacrylate ester) Combustible Liquid NA 1993 III	
International Air Transportation (ICAO) Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions:	/IATA) Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) 9 UN 3334 III 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: Hazard class or division: Identification number: Packing group:	Not regulated None None None	
1!	5. REGULATORY INFORMATION	
Inited States Regulatory Information		
	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None above reporting de minimis	
	None above reporting de minimis Immediate Health, Delayed Health, Fire, Reactive None above reporting de minimis	
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.	
Canada Regulatory Information		
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.	
	16. OTHER INFORMATION	

Prepared by: Catherine Bimler, Regulatory Affairs Specialist

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Product name: LOCTITE 414 INSTANT ADHESIVE known as 414 Super Bonder® Plastic & Vi Page 5 of 6 **DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.