



### **Revision Date:** 06/11/2004

Issue date: 06/11/2004

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 495 Super Bonder® Instant Adhesive

 Product type:
 Cyanoacrylate

 Company address:
 Henkel Corporation

 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item number:49504Region:United StatesContact Information:Telephone:860.571.5100Emergency telephone:860.571.5100Internet:www.loctite.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Ethyl cyanoacrylate 7085-85-0 <u>%</u> 60-100 ACGIH TLV 0.2 ppm TWA OSHA PEL None

OTHER None

# 3. HAZARDS IDENTIFICATION

		EMERGENCY OVERVI	EW	
		HMIS:		
Physical state: Color: Odor:	Liquid Clear Colorless to St Sharp, Irritating	PHYSIC	-	2 2 1 See Section 8
WARNING	MAY CAU	KIN IN SECONDS. SE EYE AND RESPIRATORY IRR TIBLE LIQUID AND VAPOR.	ITATION.	
Relevant routes of	exposure:	Skin, inhalation, eyes		
Potential Health Effe	ects			
Inhalation:		Exposure to vapors above the established to difficulty in breathing and tightness in the		ts in respiratory irritation which may lead
Skin contact	:	Bonds skin in seconds. May cause skin irr reaction but due to rapid polymerization at Cyanoacrylates generate heat on solidifica Cured adhesive does not present a health	itation. Cyanoacryla the skin surface, an ation. In rare circums	allergic response is rare. tances a large drop will burn the skin.
Eye contact: Ingestion:		Irritating to eyes. Causes excessive tearin. Not expected to be harmful by ingestion. F almost impossible to swallow.		
Existing conditions exposure:	aggravated by	Eye, skin, and respiratory disorders.		
		See Section 11 for additional toxicologi	cal information.	

# **4. FIRST AID MEASURES**

Inhalation:	Remove to fresh air. If discomfort persists seek 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.
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°C (176°F) to 93.4°C (200°F) Tagliabue closed cup
Flash point: Autoignition temperature:	80°C (176°F) to 93.4°C (200°F) Tagliabue closed cup 485°C (905°F)
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Autoignition temperature:	485°C (905°F)
Autoignition temperature: Flammable/Explosive limits-lower %:	485°C (905°F) Not determined
Autoignition temperature: Flammable/Explosive limits-lower %: Flammable/Explosive limits-upper %:	485°C (905°F) Not determined Not determined
Autoignition temperature: Flammable/Explosive limits-lower %: Flammable/Explosive limits-upper %: Extinguishing media:	485°C (905°F) Not determined Not determined Water spray. Dry powder. Foam. Carbon dioxide.
Autoignition temperature: Flammable/Explosive limits-lower %: Flammable/Explosive limits-upper %: Extinguishing media: Special fire fighting procedures:	485°C (905°F) Not determined Not determined Water spray. Dry powder. Foam. Carbon dioxide. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Autoignition temperature: Flammable/Explosive limits-lower %: Flammable/Explosive limits-upper %: Extinguishing media: Special fire fighting procedures: Unusual fire or explosion hazards:	<ul> <li>485°C (905°F)</li> <li>Not determined</li> <li>Not determined</li> <li>Water spray. Dry powder. Foam. Carbon dioxide.</li> <li>Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).</li> <li>None</li> <li>Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is</li> </ul>
Autoignition temperature: Flammable/Explosive limits-lower %: Flammable/Explosive limits-upper %: Extinguishing media: Special fire fighting procedures: Unusual fire or explosion hazards:	485°C (905°F) Not determined Not determined Water spray. Dry powder. Foam. Carbon dioxide. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). None Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## 7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing 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.
Incompatible products:	No special restrictions on storage with other products.
For informati	on on product shelf life contact Henkel Customer Service at (800) 243-4874.
8. E	XPOSURE CONTROLS / PERSONAL PROTECTION
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).
Skin protection:	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.
Eye/face protection:	Chemical splash goggles or safety glasses with side shields.
	See Section 2 for exposure limits.
	9. PHYSICAL AND CHEMICAL PROPERTIES
Physical state: Color: Odor: Odor Threshold: Vapor pressure: pH: Boiling point/range: Melting point/range: Specific gravity: Vapor density: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content:	Liquid Clear Colorless to Straw Sharp, Irritating 1-2 ppm Less than 0.2 mm Hg Not applicable Greater than 149°C (300°F) Not determined 1.1 at 23.9°C (75°F) Approximately 3 Not available Polymerizes in presence of water Not applicable Less than 20 g/L (California SCAQMD Method 316B) (estimated)

### **10. STABILITY AND REACTIVITY**

Stability:	Stable under recommended storage conditions.	
Hazardous polymerization:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.	
Hazardous decomposition products:	None	
Incompatability:	Water, amines, alkalis and alcohols.	
Conditions to avoid:	Spontaneous polymerization	
11. TOXICOLOGICAL INFORMATION		

Product toxicity data:

Acute oral LD50 >5000mg/kg (rat)(estimated). Acute dermal LD50 >2000mg/kg (rabbit)(estimated).

Carcinogen Status

Product name: 495 Super Bonder® Instant Adhesive

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Ethyl cyanoacrylate	No	No	No
7085-85-0			

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Ethyl cyanoacrylate	Allergen, Irritant, Respiratory
7085-85-0	

### **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

Not known

## **13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number:

Not a RCRA hazardous waste.

## **14. TRANSPORT INFORMATION**

U.S. Department of Transportation Grou	
Proper shipping name:	Combustible liquids, n.o.s. (Cyanoacrylate ester)
Hazard class or division:	Combustible liquid
Identification number:	NA 1993
Packing group:	None
Exceptions:	(Not more than 450 Liters) Unrestricted
Marine pollutant:	None
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International Air Transportation (ICAO/IA	<u>\TA):</u>
Proper shipping name:	Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
Hazard class or division:	9
Identification number:	UN 3334
Packing group:	None
Exceptions:	(Not more than 500ml) Unrestricted
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WaterTransportation (IMO/IMDG):	
Proper shipping name:	Unrestricted
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None

#### **15. REGULATORY INFORMATION**

#### United States Regulatory Information

TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None.	
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None. Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive This product contains the following toxic chemicals subject to the reporting requirements of section 313	
UERULAISARA 313.	of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). None.	
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.	
Canada Regulatory Information		
CEPA DSL/NDSL Status: WHMIS hazard class:	All components are listed on or are exempt from listing on the Domestic Substances List. B.3, D.2.B	
16. OTHER INFORMATION		

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by:

C.J. Michaels, Senior Health & Regulatory Affairs Specialist

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