



Issue date: 08/09/2005

#### Revision Date: 08/08/2005

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

498 Super Bonder(R) Instant Adhesive Thermal Product name: Cycling Resistant Product type:

Cyanoacrylate Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

18724 / IDH No. 229817 Item No. : Region: **United States Contact Information:** Telephone: (860) 571-5100 Emergency telephone: (860) 571-5100 Internet: www.henkelna.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 OVERVIEW HMIS:					
Physical state: Color: Odor:		nt Colorless ating	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2 2 1 See Section 8	
WARNING: BONDS SKIN IN SECONDS. MAY CAUSE EYE AND RESPIRATORY IRRITATION. COMBUSTIBLE LIQUID AND VAPOR.					
Relevant routes of exposure:		Skin, Inhalation,	Eyes		
Potential Health Effe	ects				
Inhalation:			pors above the established exposure limit results in	respiratory irritation which may lead	
Skin contact:		Bonds skin in se allergic reaction Cyanoacrylates	to difficulty in breathing and tightness in the chest. 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 even if bonded to the skin.		
Eye contact: Ingestion:		Irritating to eyes	. Causes excessive tearing. Eyelids may bond. be harmful by ingestion. Rapidly polymerizes (solid		
Existing conditions	aggravated	<b>1 by</b> Eye, skin, and re	espiratory disorders.		

Existing conditions aggravated by exposure:

See Section 11 for additional toxicological information.

# 4. FIRST AID MEASURES

Inhabition:   Remove to fissh in i. If disconfort persists seek medical attention.     Skin contact:   Due not pull bonded skin spart. Soek in werm snapp writer. Gently peel spart using a blurt instrument. The one bonded, algory warm water in the lips and non-using writing song instrument attention. If is ease bonded, algory warm water in the lips apart with direct opposing force.     Eye contact:   Immediately flush with penty of water for at least 15 minutes. Gent poles are bonded, algory and release well-share with admetical attention. If we per decord up on the period is a spart to any and up on the period is a spart to any and the period is a spart to any and the period.     Eye contact:   Immediately flush with penty of water for at least 15 minutes. Gent poles are bonded does and making and anticles of polymetized cynonecylete trapped behind the eyelid caused abrasive damage.     Ingestion:   Ensure breathing passages are not obstructed. The product will polymetize apply and bond to the mouth making a afmodia throp parties of polymetized discuss. Experience has shown that bonded taskes are best trented by passaw, non-anginal first all. It rupped behind the eyelid caused abrasive damage.     Notes to physician:   Burgery is not necessary to separate any coldited product in several hours. Prevent the patter from everylate trapped behind the several hours. Foreward discuss.     Autoignition temperature:   48°C (176°F) to 93.4°C (200°F)   Tagliabue closed cup     Autoignition temperature:   48°C (176°F) to 93.4°C (200°F)   Tagliabue closed cup     Autoignition temperature:   <		
It star is burned due to the rapid generation of heir by a targe dróp, seek medical attention. If tips are bonded, rapid warm water to the lips and nectoarge wetting and pressure from saliva in mouth. Peel or rol lips spart. Do not pull lips spart with direct opposing force.   Eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelds are bonded closed, release eyelsehes with warm water by covering with a wet pad. Do not force are egen. Cyprotecytals will bond to eye protein and will cause a biorymotory effect which will help to debond should be ought in case so call particles of polymerized cyanoacrylate targe bonded closed during and will cause a biorymotory effect which will help to debond should be caused abtrastive 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. Present the patient from swallowing any separate accidentity bonded fitsus. Experience has shown hat bonded tissues are best treated by passive, non-surgical fitst add. If rapid cause thermal burns they should be treated by passive. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate accidentity bonded fitsus. Experience has shown hat bonded tissues are best treated by passive, non-surgical fitst add. If rapid cause thermal burns they should be treated by passive, non-surgical fitst add. If rapid cause thermal burns they should be treated by passive non-surgical fitst add. If rapid cause thermal burns they should be treated by passive non-surgical fitst add. If rapid cause thermal burns they should be treated by passive non-surgical fitst add. If rapid cause thermal burns they shole fitsthy bonded fitsus.	Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
bonded closed, release eyelashes with warm water by covering with a very seopen. Cyanoacrysta will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until deconding is complete, usually within 1:3 days. Medical attenuion should be sought in case sould particles of polymerized cyanoacrylate trapped behind the eyelid caused abreave damage.   Ingestion: Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saltwa 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 acidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first ad. If rapid curing has caused thermal burns they should be treated symbolic advection advection advection.   Autoignition temperature: 485°C (100°F) Tagliabue closed cup   Autoignition temperature: 485°C (90°F) Tagliabue closed and   Flash point: 80°C (176°F) to 93.4°C (200°F) Tagliabue closed and   Flammable/Explosive limits-tower ½: Not determined   Extinguishing media: Water spray. Dry powder. Foan. Carbon cloxide.   Special fire fighting procedu	Skin contact:	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
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. <b>5. FIRE-FIGHTING MEASURES</b> Flash point: 80°C (176°F) to 93.4°C (200°F)   Autoignition temperature: 485°C (90°F)   Flammable/Explosive limits-lower %: Not determined   Farmable/Explosive limits-upper %: Not determined   Farmable/Explosive limits-upper %: Not determined   Extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.   Special fire fighting procedures: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).   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.   Clean-up methods: Do not use doths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.   Ventilate area. Prevent product from entering the drains. Clean-up methods:   Do not use doths	Eye contact:	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
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	Incompatible products:	No special restrictions on storage with other products.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	For informati	on on product shelf life contact Henkel Customer Service at (800) 243-4874.
	8. E	XPOSURE CONTROLS / PERSONAL PROTECTION

Product name: 498 Super Bonder(R) Instant Adhesive Thermal Cycling Resistant  $2 \mbox{ of } 4$ 

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:	Liquid Translucent Colorless	
Odor:	Sharp, Irritating 1-2 ppm Less than 0.2 mm Hg	
Odor Threshold:		
Vapor pressure:		
pH:	Not applicable	
Boiling point/range:	Greater than 149°C (300°F)	
Melting point/range:	Not determined	
Specific gravity:	1.1	
Vapor density:	Approximately 3	
Evaporation rate:	Not available	
Solubility in water:	Polymerizes in presence of water	
Partition coefficient (n-octanol/water):	Not applicable	
VOC content:	Less than 2%; 20 g/L (California SCAQMD Method 316B) (estimated)	
	10. STABILITY AND REACTIVITY	
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Stability:	Stable under recommended storage conditions	
	Stable under recommended storage conditions	
Stability: Hazardous polymerization:		
Hazardous polymerization:	Stable under recommended storage conditions	
	Stable under recommended storage conditions Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.	
Hazardous polymerization:	Stable under recommended storage conditions Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.	
Hazardous polymerization: Hazardous decomposition products:	Stable under recommended storage conditions Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. None	

#### 11. TOXICOLOGICAL INFORMATION

Product toxicity data:

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

#### Carcinogen Status

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.

	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 Gro	pund (49 CFR):
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
International Air Transportation (ICAO	
Proper shipping name:	Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
Hazard class or division:	9
Identification number:	UN 3334
Packing group:	None (Not more than 500ml) Uprestricted
Exceptions:	(Not more than 500ml) Unrestricted
WaterTransportation (IMO/IMDG):	
Proper shipping name:	Unrestricted
Hazard class or division: Identification number:	None
Packing group:	None
Marine pollutant:	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.
CERCLA/SARA Section 302 EHS:	None.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive
CERCLA/SARA 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 3
	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: 9

Prepared by:

Regulatory Affairs

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation 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 of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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