Material Safety Data Sheet





Revision Number: 004.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type: **416 Super Bonder® Instant Adhesive** Cyanoacrylate

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 IDH number:135452Item number:41650Region:United StatesContact information:Telephone:860.571.5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone:TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet:Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

			EMERGENCY OVERVIEW
			HMIS:
Physical sta		Liquid	HEALTH: 2
Color:		Clear	FLAMMABILITY: 2
Odor:	l	Irritating	PHYSICAL HAZARD: 1 Personal Protection: See MSDS Section 8
W	ARNING:	CC	MBUSTIBLE LIQUID AND VAPOR.
			NDS SKIN IN SECONDS.
		-	Y CAUSE EYE AND RESPIRATORY TRACT IRRITATION.
		1017	T CAUSE ETE AND RESPIRATORT TRACT IRRITATION.
Relevant rou	utes of exposure	: :	Skin, Inhalation, Eyes
Potential He	alth Effects		
I	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:		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. Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic
	Eve contact:		reaction but due to rapid polymerization at the skin surface, an allergic response is rare. 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.
Existing cor exposure:	nditions aggrava	ited by	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
Thickener	Proprietary	10 - 30
Antioxidant	Proprietary	1 - 5

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 apar using a blunt instrument. If skin is burned due to the rapid generation of her by a large drop, seek medical attention. If lips are bonded, apply warm wate to the lips and encourage wetting and pressure from saliva in mouth. Peel o 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 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 th adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymeriz 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. Saliv will separate any solidified product in several hours. Prevent the patient fror 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. F	IRE 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:	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:	None		
Hazardous combustion products:	Trace amounts of toxic and/or irritating fumes may be released and the use 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.
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:

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. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

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	
Thickener	None	None	None	None	
Antioxidant	None	None	None	None	
Engineering controls:			ntilation if general venti ow established exposu		
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.				
Eye/face protection:	Safety goggles	Safety goggles or safety glasses with side shields.			
Skin protection:	5	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.			

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: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:**

Clear Irritating 1 - 2 ppm Not applicable < 0.5 mm hg (77 °F (25°C)) > 212 °F (> 100°C) Not determined 1.1 at 68 °F (20°C) 3 Approximately 80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup Not determined Not determined 485 °C (905°F) Not available. Polymerises in presence of water. Not determined < 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 product	s:	None		
Incompatible materials:		Water, amines,	alkalis and alcohols.	
Conditions to avoid:		Spontaneous po	olymerization.	
1	1. TOXICC		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 Car	cinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	N	lo	No	No
Thickener		lo	No	No
Antioxidant	N	lo	No	No
Hazardous components		Health Effects/Target Organs		
Ethyl 2-cyanoacrylate		Irritant, Allergen, Respiratory		
Thickener		Irritant		
Antioxidant			Irritant	
	12. ECOL	OGICAL IN	FORMATION	
Ecological information:		Not known.		
	13. DISPO	SAL CONS	IDERATIONS	
I	nformation pro	vided is for un	used product only.	
Recommended method of disposa	l:	Follow all local,	state, federal and provincial reg	ulations for disposal.
Hazardous waste number:		Not a RCRA hazardous waste.		
	14. TRAN	ISPORT IN	FORMATION	
U.S. Department of Transportation	Ground (49 CFI	र)		
Hazard class or division:ComIIdentification number:NA 1Packing group:III		nbustible liquid, n.o.s. (Cyanoacrylate ester) nbustible Liquid 1993 estricted, (Not more than 450 Liters)		
Hazard class or division:9Identification number:UNPacking group:NonExceptions:Prin		334 ary packs contai	uid, n.o.s. (Cyanoacrylate ester ining less than 500ml are unreg e shipped unrestricted.	, ,

Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None 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: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus Fire, Reactive, Delayed Health, Immediate Health None above reporting de minimus		
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.		
Canada Regulatory Information			
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: Updated Contact Information in Section 1. 3, 8, 11

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