





1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: Product type: 4161 Super Bonder® Medical Device Instant Adhesive Gap Filling Cyanoacrylate

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 Item number:19744Region:United StatesContact information:Telephone:860.571.5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free) or1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free) or1-703-527-3887Internet:www.henkelna.com

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
Physical state:LiqueColor:CleeOdor:Share			
WARNING:	COMBUSTIBLE LIQUID AND VAPOR. BONDS SKIN IN SECONDS. MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.		
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.		
Eye contact: Ingestion:	Irritating to eyes. Causes excessive tearing. Eyelids may bond. Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.		
Existing conditions aggravated exposure:	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

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 hea 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 of 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 from swallowing any separated mass.
Notes to physician:	Surgery is not necessary to separate accidentally bonded tissues. Experier 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	FIRE FIGHTING MEASURES
Flash point:	80 - 93.3 °C (176°F - 199.94 °F) None
Autoignition temperature:	485 °C (905°F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Dry powder. foam Carbon dioxide.
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated ir pressure-demand or other positive pressure mode.
Unusual fire or explosion hazards:	None

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.

Hazardous combustion products:

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
Thickener	None	None	None	None
Engineering controls:			ntilation if general ventilation if general ventilation if general ventilation of the stablished exposure	
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 glove PVC, nylon or		cessary to prevent conta	act. Do not use

9. PHYSICAL AND CHEMICAL PROPERTIES

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:**

Liquid Clear Sharp, irritating Not available. Not applicable < 0.2 mm hg > 300 °F (> 148.9 °C) None Not determined 1.05 at 75 °F (23.89 °C) 3 Approximately 80 - 93.3 °C (176°F - 199.94 °F) None Not determined Not determined 485 °C (905°F) Not available. Polymerises in presence of water. Not applicable < 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	None			
Incompatible materials:		Water, amines,	alkalis and alcohols.	
Conditions to avoid:		Spontaneous p	olymerization.	
11. TOXICOLOGICAL INFORMATION				
Acute oral product toxicity:	LD50 (rat) > 5,	000 mg/kg (Estimated)		
Acute dermal product toxicity:			 2,000 mg/kg (Estimated) 	
Hazardous components	NTP Ca	rcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate		No	No	No
Thickener		No	No	No
Hazardous components			Health Effects/Target	Organs
Ethyl 2-cyanoacrylate Thickener			Irritant, Allergen, Resp Irritant	biratory
			IIIIdiit	
	12. ECOLOGICAL INFORMATION			
Ecological information:		Not known.		
	13. DISPO	OSAL CONS	SIDERATIONS	
I	Information pro	ovided is for un	used product only.	
Recommended method of disposa	ıl:	Follow all local,	state, federal and provincial reg	ulations for disposal.
Hazardous waste number:		Not a RCRA hazardous waste.		
	14. TRA	NSPORT IN	FORMATION	
U.S. Department of Transportation Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions: International Air Transportation (IC Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions: Water Transportation (IMO/IMDG)	Con Con NA III Unre AO/IATA) Avia 9 UN Non Prin	nbustible liquid, r nbustible Liquid 1993 estricted, (Not m ation regulated lic 3334 e nary packs conta	n.o.s. (Cyanoacrylate ester) ore than 450 Liters) quid, n.o.s. (Cyanoacrylate ester ining less than 500ml are unreg e shipped unrestricted.	,
Proper shipping name: Hazard class or division: Identification number: Packing group:	Not Non Non	e		

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 Reactive, Delayed Health, Immediate Health, Fire 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:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.	
WHMIS hazard class:	D.2.B, B.3	
16. OTHER INFORMATION		

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

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