

Material Safety Data Sheet



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		1. CHEMICAL PRODUCT				
		I. CHEMICAL PRODUCT				
Product name: Product type: Company address: Henkel Corporation 1001 Trout Brook Cro	Adhesi Cyanoa	Bonder(R) 4981 Medical Device Instant ve Thermal Cycling Resistant acrylate	Item No. : Region: Contact Informa Telephone: 860.	571.5100	9813	
Rocky Hill, Connection	cut 0606	7	Internet: www.lo	ohone: 860.571.5100 ctite.com		
		2. COMPOSITION/INFO	ORMATION ON I	NGREDIENTS		
Hazardous compone Ethyl cyanoacrylate 7085-85-0	<u>ents</u>	<u>%</u> 60-100	ACGIH TLV 0.2 ppm TWA	OSHA PEL None	OTHER None	
		3. HAZARDS		ON		
		EMERGE	NCY OVERVIEW			
Physical state: Color: Odor:	Clear (Colorless / Pale yellow Irritating	<u>HMIS:</u> HEALTH: FLAMMABIL PHYSICAL H		2 2 1	
WARNING	a :	BONDS SKIN IN SECONDS. MAY CAUSE EYE AND RESPI COMBUSTIBLE LIQUID AND V			See Section 8	
Relevant routes of	exposu	re: Skin, Inhalation, Eyes				
Potential Health Effe	ects					
Inhalation:		to difficulty in breathing a	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: Eye contact: Ingestion:	-	Cured adhesive does not Irritating to eyes. Causes	to rapid polymerizatio heat on solidification present a health haz excessive tearing. E ful by ingestion. Rapid	n at the skin surface, an . In rare circumstances a ard even if bonded to the yelids may bond.	allergic response is rare. large drop will burn the skin.	

See Section 11 for additional toxicological 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
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 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.
	6. ACCIDENTAL RELEASE MEASURES
Environmental precautions:	Ventilate area. Prevent product from entering the drains.
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 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. EXPOSURE 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

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

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 Gro	aund (49 CER)-
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	<u>/IATA):</u>
Proper shipping name:	Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
Hazard class or division:	9
Identification number:	UN 3334
Packing group:	
Exceptions:	(Not more than 500ml) Unrestricted
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:	None chouse reporting do minimus
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:	None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive
CERCLA/SARA Section 311/312.	None above reporting de minimus.
CERCLAVSARA 313.	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: 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: 15

Prepared by:

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