



Revision Number: 003.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

Loctite(R) Tak Pak(R) 444 Instant Adhesive Cyanoacrylate IDH number:

135241

Item number:12292Region:United StatesContact information:Telephone:860.571.5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:				
Physical state: Color: Odor:	Liquid Clear Sharp, Irr	-	IMIS: HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2 2 1 See MSDS Section 8
WARNIN	M	ONDS SKIN IN SECONDS IAY CAUSE EYE AND RE OMBUSTIBLE LIQUID AN	S. SPIRATORY TRACT IRR	
Relevant routes of e	exposure:	Skin, Inhalation, Eyes		
Potential Health Effe	<u>ects</u>			
Inhalatio	on:		e established exposure limit resu hing and tightness in the chest.	ults in respiratory irritation, which
Skin co		Bonds skin in seconds. May allergic reaction but due to ra Cyanoacrylates generate hea skin. Cured adhesive does no	cause skin irritation. Cyanoacry pid polymerization at the skin su it on solidification. In rare circum of present a health hazard even	
Eye con Ingestic				d. s (solidifies) and bonds in mouth. It
Existing conditions exposure:	aggravated by	Eye, skin, and respiratory dis	orders.	
		This material is considered h 1910.1200).	azardous by the OSHA Hazard (Communication Standard (29 CFR

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	5 - 10

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 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. F	IRE FIGHTING MEASURES		
Flash point:	80 - 93.4 °C (176°F - 200.12 °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 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		
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. 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.

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 ventil	
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).			
Eye/face protection:	Safety goggles	or safety glasses wit	h 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 available. < 0.2 mm hg > 149 °C (> 300.2 °F) Not determined 1.05 Not available. 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup 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. STAE	BILITY 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.	
11. TOXICOLOGICAL INFORMATION				
Acute oral product toxicity:	Acute oral product toxicity:			
Acute dermal product toxicity:		LD50 (rabbit) >	2,000 mg/kg (Estimated)	
Hazardous components	NTP Ca	arcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate Thickener		No No	No No	No No
Hazardous components		1	Health Effects/Target	L
Ethyl 2-cyanoacrylate			Irritant, Allergen, Res	-
Thickener			Irritant	
12. ECOLOGICAL INFORMATION				
Ecological information:		Not known.		
	13. DISPO	OSAL CONS	IDERATIONS	
1	Information pr	ovided is for un	used product only.	
Recommended method of disposa	ıl:	Follow all local,	state, federal and provincial reg	gulations for disposal.
Hazardous waste number:		Not a RCRA hazardous waste.		
	14. TRA	NSPORT INI	FORMATION	
Hazard class or division: Con Identification number: NA Packing group: III Exceptions: Unrophysical International Air Transportation (ICAO/IATA) Proper shipping name:		nbustible liquid, n nbustible Liquid 1993 estricted, (Not mo	.o.s. (Cyanoacrylate ester) ore than 450 Liters) uid, n.o.s. (Cyanoacrylate este	r)
Packing group: Non Exceptions: Prim		nary packs contai	ning less than 500ml are unreg shipped unrestricted.	gulated by this mode of
		ne		

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 Immediate Health, Delayed Health, Fire, Reactive 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:	B.3, D.2.B		
16. OTHER INFORMATION			

This material safety data sheet contains changes from the previous version in sections: 3, 8, 11

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