

Material Safety Data Sheet



Issue date: 04/11/2007

Revision Date: 04/11/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 4851 Prism® Medical Device Instant Adhesive

Flexible Low Viscosity Product type: Cyanoacrylate Company address: Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067

Item No.: 37732 / IDH No. 524540

Region: United States Contact Information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com

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.

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is

Cured adhesive does not present a health hazard even if bonded to the skin.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Ethyl cyanoacrylate 7085-85-0	<u>%</u> 30-60	ACGIH TLV 0.2 ppm TWA	OSHA PEL None	OTHER None
n-Butyl cyanoacrylate 6606-65-1	10-30	None	None	0.2 ppm TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
Physical state: Color: Odor:	Viscous liquid Clear Colorless Sharp, Irritating	HMIS: HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2 2 1 See Section 8
WARNING	MAY CAL	SKIN IN SECONDS. JSE EYE AND RESPIRATORY IRRITATION. STIBLE LIQUID AND VAPOR.	
Relevant routes of	exposure:	Skin, Inhalation, Eyes	
Potential Health Effects			
Inhalation:		Exposure to vapors above the established exposure limit results in to difficulty in breathing and tightness in the chest.	respiratory irritation which may lead

Skin	contact	

Eye contact: Ingestion:

Existing conditions aggravated by exposure:

See Section 11 for additional toxicological information.

Irritating to eyes. Causes excessive tearing. Eyelids may bond.

almost impossible to swallow.

Eye, skin, and respiratory disorders.

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:	Not determined	
Flammable/Explosive limits-lower %:	Not determined	
Flammable/Explosive limits-upper %:	Not determined	
Extinguishing media:	Water spray (fog), foam, dry chemical or 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 information 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

Physical state:	Viscous liquid
Color:	Clear Colorless
Odor:	Sharp, Irritating
Vapor pressure:	Less than 0.2 mm Hg
pH:	Not applicable
Boiling point/range:	Greater than 149°C (300°F)
Melting point/range:	Not determined
Specific gravity:	1.06
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)
· · · · · ·	Less than 2%; 20 g/L (California SCAQMD Method 316B) (estimated)

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, 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			
n-Butyl cyanoacrylate	No	No	No
6606-65-1			

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs	
Ethyl cyanoacrylate 7085-85-0	Allergen, Irritant, Respiratory	
n-Butyl cyanoacrylate 6606-65-1	Allergen, Irritant, Respiratory	

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	und (49 CFR):	
Proper shipping name:	Combustible liquids, n.o.s. (Cyanoacrylate ester)	
Hazard class or division:	3	
Identification number:	NA 1993	
Packing group:	None	
Exceptions:	(Not more than 450 Liters) Unrestricted	
Marine pollutant:	None	
International Air Transportation (ICAO/		
Proper shipping name: Hazard class or division:	Aviation regulated liquids, n.o.s (Cyanoacrylate ester) 9	
Identification number:	9 UN 3334	
Packing group:	None	
Exceptions:	(Not more than 500ml) Unrestricted	
<u>WaterTransportation (IMO/IMDG):</u> Proper shipping name: Hazard class or division: Identification number: Packing group: Marine pollutant:	Unrestricted None None None 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: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard, 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:	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. All other components	
WHMIS hazard class:	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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