Material Safety Data Sheet



Revision Number: 005.0



1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

Adhesive Gel Cyanoacrylate

454 Prism® Surface Insensitive Instant IDH number:

233998

Item number:45404Region: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:GelColor:ClearOdor:Irritati	HEALTH: 2 FLAMMABILITY: 2
WARNING:	BONDS SKIN IN SECONDS.
	MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. COMBUSTIBLE LIQUID AND VAPOR.
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 b exposure:	y 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
Treated fumed silica	67762-90-7	5 - 10
Thickener	Proprietary	5 - 10

4	I. 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 apa using a blunt instrument. If skin is burned due to the rapid generation of he by a large drop, seek medical attention. If lips are bonded, apply warm wat to the lips and encourage wetting and pressure from saliva in mouth. Peel 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 wate 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 adhesive. Keep eye covered until debonding is complete, usually within 1-days. Medical attention should be sought in case solid particles of polymer 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. Sali will separate any solidified product in several hours. Prevent the patient fro swallowing any separated mass.
Notes to physician:	Surgery is not necessary to separate accidentally bonded tissues. Experie has shown that bonded tissues are best treated by passive, non-surgical fi 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 - 93.4 °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:	Foam Carbon dioxide. Dry powder.
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 us

6. ACCIDENTAL RELEASE MEASURES

breathing apparatus is recommended.

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
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Thickener	None	None	None	None
Engineering controls:	•	own-draft exhaust vent oor concentration belov	U U	
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 gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Gel

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: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:**

Clear Irritating Not available. Not applicable < 0.2 mm hg > 300 °F (> 148.9 °C) None Not determined 1.05 3 Approximately 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup Not determined Not determined 485 °C (905°F) Not available. Miscible Polymerises in presence of water. Not applicable < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

	10. STABILITY AND			
Stability:	Stable under n	ecommended 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	s, alkalis and alcohols.		
Conditions to avoid:	Spontaneous	polymerization.		
11. TOXICOLOGICAL INFORMATION				
Acute oral product toxicity:	LD50 (rat) > 5	5,000 mg/kg (Estimated)		
Acute dermal product toxicity:	LD50 (rabbit)	> 2,000 mg/kg (Estimated)		
Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Ethyl 2-cyanoacrylate	No	No	No	
Treated fumed silica Thickener	No No	No No	No No	
			-	
Hazardous components		Health Effects/Target	-	
Ethyl 2-cyanoacrylate Treated fumed silica		Irritant, Allergen, Res Irritant	piratory	
Thickener		Irritant		
	12. ECOLOGICAL IN	NFORMATION		
Ecological information:	Do not empty i	into drains / surface water / grou	nd water.	
	13. DISPOSAL CON	SIDERATIONS		
I	nformation provided is for u	nused product only.		
Recommended method of disposa	I: Follow all loca	Follow all local, state, federal and provincial regulations for disposal.		
Hazardous waste number:	Not a RCRA h	azardous waste.		
	14. TRANSPORT 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:	Combustible liquid, Combustible Liquid NA 1993 III Unrestricted, (Not m Aviation regulated li 9 UN 3334 None Primary packs conta	n.o.s. (Cyanoacrylate ester) nore than 450 Liters) iquid, n.o.s. (Cyanoacrylate este aining less than 500ml are unreg be shipped unrestricted.		

Water Transportation (IMO/IMDG)			
Proper shipping name:	Not regulated		
Hazard class or division:	None		
Identification number:	None None		
Packing group:	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:	None above reporting de minimus		
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire, Reactive		
CERCLA/SARA 313:	None above reporting de minimus		
California Proposition 65:	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.		
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.

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