





1. PRODUCT AND COMPANY IDENTIFICATION

411 Prism® Clear Toughened Instant Product name: **IDH number:** 233774 Adhesive Product type: Cyanoacrylate Item number: 41191 Region: **United States** Company address: Contact information: Henkel Corporation Telephone: 860.571.5100 One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 Rocky Hill, Connecticut 06067 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com 2. HAZARDS IDENTIFICATION **EMERGENCY OVERVIEW** HMIS: HEALTH: 2 Physical state: Liquid Color: FLAMMABILITY: 2 Clear Irritating, Sharp PHYSICAL HAZARD: Odor: 1 **Personal Protection:** See MSDS Section 8 WARNING: MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. BONDS SKIN IN SECONDS. 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. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the Skin contact: skin. Cured adhesive does not present a health hazard even if bonded to the skin. 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. Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond. Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow. Existing conditions aggravated by Eye, skin, and respiratory disorders. exposure: 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
Treated fumed silica	67762-90-7	1 - 5

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 he 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 fror 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 fir 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:	Carbon dioxide. Dry powder. foam Water spray or fog.
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

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:	Do not allow product to enter sewer or waterways. Ventilate area.
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:

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. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

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
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
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 ap limit(s).	pproved respirator if the	ere is potential to exce	ed exposure
Eye/face protection:	Safety goggles	Safety goggles or safety glasses with side shields.		
Skin protection:	Use nitrile glov	Use nitrile gloves and aprons as necessary to prevent contact. Do not use		

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

PVC, nylon or cotton.

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:

Clear Irritating, Sharp Not available Not applicable < 0.5 mm hg (77 °F (25°C)) > 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. STAB	ILITY AND	REACTIVITY	
Stability:		Stable under re	commended storage conditions	
Hazardous reactions:		Rapid exothermic polymerization will occur in the presence of water, amines alkalis and alcohols.		ne presence of water, amines,
Hazardous decomposition product	s:	None		
Incompatible materials:		Water, amines,	alkalis and alcohols.	
Conditions to avoid:		Spontaneous polymerization.		
1	1. TOXICC		INFORMATION	
Acute oral product toxicity:		LD50 (rat) > 5,0	000 mg/kg (Estimated)	
Acute dermal product toxicity:		LD50 (rabbit) >	2,000 mg/kg (Estimated)	
				OSHA Carcinogen
Hazardous components	NTP Car	cinogen	IARC Carcinogen	(Specifically Regulated)
Ethyl 2-cyanoacrylate	Ν	0	No	No
Thickener	N		No	No
Treated fumed silica	N	0	No	No
Hazardous components			Health Effects/Target	Organs
Ethyl 2-cyanoacrylate			Irritant, Allergen, Resp	biratory
Thickener			Irritant	
Treated fumed silica			Irritant	
	12 FCOL		FORMATION	
Ecological information:		Not known.		
	13. DISPO	SAL CONS		
			used product only.	
Recommended method of disposa	-		state, federal and provincial reg	ulations for disposal.
Hazardous waste number:				
			FORMATION	
	14. IKAN			
U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Combustible liquid, n.o.s. (Cyanoacrylate ester) Hazard class or division: Combustible Liquid Identification number: NA 1993 Packing group: III Exceptions: Not regulated, (Not more than 450 Liters)				
International Air Transportation (IC. Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions:	Aviat 9 UN 3 None Not r	334 egulated, Prima	uid, n.o.s. (Cyanoacrylate ester ry packs containing less than 5 d may be shipped unrestricted.	, ,

Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None 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: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus Immediate Health, Delayed Health, Reactive, 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

16. OTHER INFORMATION

Substances List.

B.3, D.2.B

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

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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WHMIS hazard class: