

MSDS016

MATERIAL SAFETY DATA SHEET

Chemical Product and Company Identification					
LABEL IDENTIFIER:	Loctite® 454 Prism®				
PRODUCT IDENTIFIER:	P/N 603482 Adhesive 454 3 GM Tube				
COMPANY IDENTIFICATION:	MINE SAFETY APPLIANCES COMPANY 1100 Cranberry Woods Drive Cranberry Township, PA 16066 CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 a.m. – 5:00 p.m., USA local time) EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)				

Vendor Information

A Material Safety Data Sheet as furnished by the Loctite Corporation for Prism 454 Surf-Insensit Gel Inst Adh is attached (6 Pages).

Loctite Corporation MSDS REVISION DATE: 3/16/03

Other Information

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.

duct Name: Prism(R) 454 Surf-Ir	isclish Ger lifst Auf		Page 1		
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1	MATERIAL SAFETY DAT	ra sheet	Page 01 of 0		
Prism(R) 454 Surf-Insensit 45404	Gel Inst Adh				
1. CHEMICAL PRODUCT AND	COMPANY IDENTIFICAT	FION			
Product Name: Item No.:	Prism(R) 454 Surf- 45404	t Adh			
Product Type:	Cyanoacrylate este	er			
2. COMPOSITION, INFORMAT	ION ON INGREDIENTS				
Ingredients	CAS No.	ક			
Ethyl cyanoacrylate Poly (methyl methacrylate) SILICA, AMORPHOUS, FUMED,	7085-85-0 9011-14-7	85-90 5-10			
CRYSTALLINE-FREE HYDROQUINONE	112945-52-5 123-31-9	5-10 0.1-0.5			
Ingredients which have	exposure limits				
Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER		
Ethyl cyanoacrylate SILICA, AMORPHOUS, FUMED,	0.2 ppm TWA		None		
CRYSTALLINE-FREE	10 mg/m3 TWA	бmg/m3 TWA	3 mg/m3 TWA resp. dust		
HYDROQUINONE	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL		
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)			
3. HAZARDS IDENTIFICATIO	N				
Toxicity:	Skin contact may cause burns. Bonds skin rapidly and strongly. Skin and eye irritant.				
Primary Routes of Entry: Signs and Symptoms of Exposure:	None known Vapor is irritating to eyes and mucous membranes above TLV. Exposure to vapors above the established limits may cause symptoms of				
Existing Conditions	established limit: non-allergic asth		COMS OF		
Aggravated by Exposure:	None known				
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Product Name:	Prism(R) 454 S	urf-Insensi	t Gel Inst	Adh		
Item No.:	45404					
3. HAZARDS IDENTIFICATIO	N				(con	tinu
	terature Refere				cinog	
Ingredients Ta	rget Organ and	Other Healt	h Effects	NTP	IARC	OSH
Ethyl cyanoacrylate	ALG IRR R	ES			NÖ	
Poly (methyl methacrylate)	IRR			NO	N/A	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI			NO	N/A	NO
HYDROQUINONE		NS EYE IMM	IRR LIV MUT			
	SKI THY					
Abbreviations						
N/A Not Applicable	р	LG Allergen				
BLO Blood		NM Bone Mar				
CNS Central nervous system		YE Eyes				
IMM Immune system		RR Irritant				
LIV Liver		WT Mutagen ES Respirat				
NUI Nuisance dust SKI Skin		HY Thyroid	OLÀ			
	-	int injioiu				
4. FIRST AID MEASURES						
Ingestion:	Ingestion is not likely. See supplemental page for emergency procedures.					
Inhalation:	Remove to fresh air. If symptoms persist, obtain medical attention.					
Skin Contact:	Soak in warm water. See supplemental page for emergency procedures.					
Eye Contact:	Flush with wat emergency proc		plemental j	page	tor	
5. FIRE FIGHTING MEASURE	S					
Flash Point:	150 - 200°F		Method: '	fag C	losed	l Cur
Recommended Extinguishing Agents: Special Firefighting	Carbon dioxide	e, foam, dry	chemical			
Procedures:	Not available					
Hazardous Products formed by Fire or Thermal Decomp	Irritating org	ganic vapors	I			
Unusual Fire or Explosion Hazards:	None					
Explosive Limits: (% by volume in air)Lower	Not available					
HENKEL LOCTITE CORPORATION	1				C	3/16
	ROCKY HILL, CON EMERGENCY PHONI					
	MATERIAL SAFET	Y DATA SHEET	2	F	age (03 of
Product Name:	Prism(R) 454 :	ourf Inconci	t Col Inct	ъđъ		

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Product Name: Prism(R) 454 Suri-Insensit Gel Inst Adh Page 3 of 6 5. FIRE FIGHTING MEASURES (continued) (% by volume in air)Upper Not available 6. ACCIDENTAL RELEASE MEASURES Steps to be taken in case of spill or leak: Flood with water to polymerize. Soak up with an inert absorbent. 7. HANDLING AND STORAGE Safe Storage: Store at or below 75 deg. F (Contact Loctite Customer Service 1-800-243-4874 for shelf life information) Handling: Avoid contact with skin and eyes. Avoid breathing vapor. 8. EXPOSURE CONTROLS, PERSONAL PROTECTION Eyes: Safety glasses or goggles. Skin: Nitrile or polyethylene gloves and aprons. Do not use cotton. See supplemental page for additional information. Ventilation: Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV Respiratory Not available See Section 2 for Exposure Limits. 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance: Water white gel Odor: Sharp, irritating Boiling Point: More than 300°F pH: Does not apply Solubility in Water: Polymerized by water Specific Gravity 1.05 Volatile Organic Compound (EPA Method 24) 85.4%; 897 grams per liter Less than 20 g/l (California SCAQMD method 316B) Vapor Pressure: Less than 0.2 mm Vapor Density: Approximately 3 Evaporation Rate (Ether = 1)Not available 10. STABILITY AND REACTIVITY Stability: Stable Hazardous Polymerization: Will not occur Incompatibility: Polymerized by contact with water, alcohols, HENKEL LOCTITE CORPORATION 03/16/03 ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100 MATERIAL SAFETY DATA SHEET Page 04 of 07 Product Name: Prism(R) 454 Surf-Insensit Gel Inst Adh Item No.: 45404

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Product Name: Prism(R) 454 Surt-Insensit Gel Inst Adh Page 4 of 6 10. STABILITY AND REACTIVITY (continued) amines, alkalies. Conditions to Avoid: Not available Hazardous Decomposition Products (non-thermal): None 11. TOXICOLOGICAL INFORMATION Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg. 12. ECOLOGICAL INFORMATION No data available 13. DISPOSAL CONSIDERATIONS Recommended methods of disposal: Dispose in accordance with Federal, State and local regulations. EPA Hazardous Waste NH - Not a RCRA Hazardous Waste Material Number 14. TRANSPORTATION INFORMATION DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters) Hazard Class or Division: Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) Identification Number: None (Not more than 450 liters); NA 1993 (More than 450 liters) Marine Pollutant: None IATA Proper Shipping Name: Unrestricted (Not more than one pint); Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (More than one pint) Unrestricted (Not more than one pint); Class or Division: Class 9 (More than one pint) UN or ID Number: None (Not more than one pint) UN 3334 (More than one pint) 03/16/03 HENKEL LOCTITE CORPORATION ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100 MATERIAL SAFETY DATA SHEET Page 05 of 07 Product Name: Prism(R) 454 Surf-Insensit Gel Inst Adh 45404 Item No.: 15. REGULATORY INFORMATION No California Proposition 65 chemicals are known CA Proposition 65: to be present.

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Product Name: Prism(R) 454 Surf-Insensit Gel Inst Adh				
16. OTHER INFORMATION				
Estimated NFPA(R) Code:				
Health Hazard:	2			
Fire Hazard:	2			
Reactivity Hazard:	1			
Specific Hazard:	Does not apply			
Estimated HMIS(R) Code:				
Health Hazard:	2			
Flammability Hazard:	2			
Reactivity Hazards:	1			
Personal Protection:	See Section 8.			
NFPA is a registered	trademark of the National Fire Protection	1 Assn.		
	trademark of the National Paint and Coati			
-				
Prepared By:	Stephen Repetto			
Title:	Research Chemist, Environmental Health & Henkel Loctite Corporation, Rocky Hill CT	-		
Company: (24hr.) Phone:	(860) 571-5100	00007		
Revision Date:	January 26, 1999 Revision: (0032		
HENKEL LOCTITE CORPORATION	ROCKY HILL, CONNECTICUT 06067	03/16/03		
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Product Name: Item No.:	Prism(R) 454 Surf-Insensit Gel Inst Adh 45404			
		Curry 1 amont		
		Supplement		
	AND CASUALTY ON TREATMENT FOR ADHESION OF			
HUMAN SKIN TO ITSELF	IF CAUSED BY CYANOACRYLATE ADHESIVES			
Cyanoacrylate adhesive is	a very fast setting and strong adhesive.	It		
bonds human tissue includi	ng skin in seconds. Experience has shown			
	loacrylates are handled best by passive,			
	eatment of specific types of accidents are	e		
given below.				
SKIN CONTACT				
	ak in warm, soapy water. The adhesive will	1		
	n several hours. Cured adhesive does not			
present a health hazard ev	ven when bonded to the skin.			
Avoid contact with clothes	, fabrics, rags, or tissue. Contact with			
	polymerization. The polymerization of large	ge		
amounts of adhesive will g	generate heat causing smoke, skin burns,			
	oors. Wear nitrile or polyethylene gloves	and		
apron when handling large	amounts of adhesive.			
SKIN ADHESION				
	surfaces in warm, soapy water. Peel or ro	11		
the surfaces apart with th	ne aid of a blunt edge, e.g. a spatula or .	a		
-	ove adhesive from the skin with soap and			
water. Do not try to pull	surfaces apart with a direct opposing			
		010.100		
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action.

EYELID TO EYELID OR EYEBALL ADHESION In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips

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45404

Supplement

with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY

It should never be necessary to use such a drastic method to separate accidentally bonded skin.

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