



HIGH TECH PRODUCTS, INC.

2376 E. Pacifica Place Rancho Dominguez, CA 90220 (800) 675-1118 www.alliedhightech.com

MATERIAL/CHEMICAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION					SECTION 3: HAZARDS IDENTIFICATION																																												
<p>Product Details</p> <p>Product Name: Loc-Tite 460 Adhesive</p> <p>Allied Item No.: 71-40045</p> <p>Chemical Name: Cyanoacrylate Ester</p> <p>Company Identification</p> <p>Allied High Tech Products, Inc. 2376 East Pacifica Place Rancho Dominguez, CA 90220 (310) 635-2466</p> <p>Contact Point</p> <p>Transportation for United States Chemtrec (800) 424-9300 * (202) 483-7616</p>					<p>Hazard Statement: Bonds skin rapidly and strongly.</p> <p>Target Organ: Cyanoacrylate Ester: Allergen, irritant Poly (methyl methacrylate): irritant Cyanoacetate Ester: No target organs Hydroquinone: Blood, bone marrow, central nervous system, eyes, immune system, liver, skin, thyroid; irritant, mutagen.</p>																																												
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT					SECTION 4: FIRST AID MEASURES																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: left;">Chemical Name</th> <th rowspan="2" style="text-align: left;">CAS No.</th> <th colspan="2" style="text-align: center;">Exposure Limits in Air</th> <th rowspan="2" style="text-align: left;">Carcin. Y/N</th> </tr> <tr> <th style="text-align: center;">ACGIH TLV or TWA</th> <th style="text-align: center;">OSHA PEL</th> </tr> </thead> <tbody> <tr> <td>Cyanocrylate Ester 95-100%</td> <td>Proprietary</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">N</td> </tr> <tr> <td>Poly (methyl methacrylate) 3-5%</td> <td>9011-14-7</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">N</td> </tr> <tr> <td>Cyanoacetate Ester 0.1-3 %</td> <td>Proprietary</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">N</td> </tr> <tr> <td>Hydroquinone 0.1-0.5%</td> <td>123-31-9</td> <td style="text-align: center;">2 mg/m3</td> <td style="text-align: center;">2 mg/m3</td> <td style="text-align: center;">N</td> </tr> </tbody> </table>					Chemical Name	CAS No.	Exposure Limits in Air		Carcin. Y/N	ACGIH TLV or TWA	OSHA PEL	Cyanocrylate Ester 95-100%	Proprietary	NA	NA	N	Poly (methyl methacrylate) 3-5%	9011-14-7	NA	NA	N	Cyanoacetate Ester 0.1-3 %	Proprietary	NA	NA	N	Hydroquinone 0.1-0.5%	123-31-9	2 mg/m3	2 mg/m3	N	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Potential Health Effects</th> <th style="text-align: center;">First Aid/ Medical Info.</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Eye Contact:</td> <td style="padding: 5px;">Vapor is irritating to eyes above TLV. Can bond eyelids together, see note below.</td> <td style="padding: 5px;">Wash thoroughly with warm water and apply guaze patch. The eye will open without further action, typically in 1-4 days. Do not try to open the eyes by manipulation.</td> </tr> <tr> <td style="padding: 5px;">Skin Contact:</td> <td style="padding: 5px;">Skin contact may cause burns. Bonds skin rapidly and strongly.</td> <td style="padding: 5px;">Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from skin in several hours. Does not present health hazard.</td> </tr> <tr> <td style="padding: 5px;">Inhalation:</td> <td style="padding: 5px;">Vapor is irritating to mucous membranes above TLV. Exposure to vapors above the established limit may cause symptoms of non-allergic asthma.</td> <td style="padding: 5px;">Remove to fresh air, seek medical attention if symptoms persist.</td> </tr> <tr> <td style="padding: 5px;">Ingestion:</td> <td style="padding: 5px;">Ingestion not likely, as adhesive will adhere in mouth.</td> <td style="padding: 5px;">Ingestion not likely. 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.</td> </tr> </tbody> </table>				Potential Health Effects	First Aid/ Medical Info.	Eye Contact:	Vapor is irritating to eyes above TLV. Can bond eyelids together, see note below.	Wash thoroughly with warm water and apply guaze patch. The eye will open without further action, typically in 1-4 days. Do not try to open the eyes by manipulation.	Skin Contact:	Skin contact may cause burns. Bonds skin rapidly and strongly.	Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from skin in several hours. Does not present health hazard.	Inhalation:	Vapor is irritating to mucous membranes above TLV. Exposure to vapors above the established limit may cause symptoms of non-allergic asthma.	Remove to fresh air, seek medical attention if symptoms persist.	Ingestion:	Ingestion not likely, as adhesive will adhere in mouth.	Ingestion not likely. 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.
Chemical Name	CAS No.	Exposure Limits in Air		Carcin. Y/N																																													
		ACGIH TLV or TWA	OSHA PEL																																														
Cyanocrylate Ester 95-100%	Proprietary	NA	NA	N																																													
Poly (methyl methacrylate) 3-5%	9011-14-7	NA	NA	N																																													
Cyanoacetate Ester 0.1-3 %	Proprietary	NA	NA	N																																													
Hydroquinone 0.1-0.5%	123-31-9	2 mg/m3	2 mg/m3	N																																													
	Potential Health Effects	First Aid/ Medical Info.																																															
Eye Contact:	Vapor is irritating to eyes above TLV. Can bond eyelids together, see note below.	Wash thoroughly with warm water and apply guaze patch. The eye will open without further action, typically in 1-4 days. Do not try to open the eyes by manipulation.																																															
Skin Contact:	Skin contact may cause burns. Bonds skin rapidly and strongly.	Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from skin in several hours. Does not present health hazard.																																															
Inhalation:	Vapor is irritating to mucous membranes above TLV. Exposure to vapors above the established limit may cause symptoms of non-allergic asthma.	Remove to fresh air, seek medical attention if symptoms persist.																																															
Ingestion:	Ingestion not likely, as adhesive will adhere in mouth.	Ingestion not likely. 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.																																															
<p>Note: Cyanocrylate will attach itself to the eye protein and will disassociate from it over intermittent periods. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with lachrymatory effect. Disassociation will normally occur within a matter of hours even with gross contamination.</p>																																																	
SECTION 5: FIRE FIGHTING MEASURES																																																	
<p>Extinguishing Media: Alcohol foam, carbon dioxide, or dry chemical.</p> <p>Fire Fighting Instruction: Wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus with full facepiece.</p> <p>Special Hazards: Irritating Organic Fragments.</p>																																																	
SECTION 6: ACCIDENTAL RELEASE MEASURES																																																	
<p>Flood with water to polymerize. Soak up with an inert absorbent.</p>																																																	
<p>Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.</p>				<p>HMIS Ratings</p> <p>Health: 2</p> <p>Flammability: 2</p> <p>Reactivity: 1</p>																																													
Page 1 of 2:																																																	

SECTION 7: HANDLING & STORAGE	SECTION 12: ECOLOGICAL INFORMATION
<p>Handling: Avoid contact with skin, clothing and eyes. Avoid breathing vapor. Observe good housekeeping practices.</p> <p>Storage: Store below 75°F (24°C).</p>	<p>NA</p>
SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION	SECTION 13: DISPOSAL INFORMATION
<p>Engineering Measures: General and/or local exhaust ventilation.</p> <p>Respiratory Protection: NA</p> <p>Protective Gloves: Nitrile or polyethylene gloves and apron. Do not use cotton.</p> <p>Eye Protection: Safety glasses or chemical splash goggles.</p> <p>Other: Eye wash and shower facility should be available.</p>	<p>Polymerize by contact with water, alcohols, amines and alkalis. Dispose of waste material according to Federal, State and Local regulations.</p>
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	SECTION 14: TRANSPORT INFORMATION
<p>Appearance: Water white to straw colored liquid Odor: Negligible Solubility: Polymerized by water Boiling Point: <300°F (149°C) Melting Point: NA Flash Point: 185°F (85°C) Vapor Pressure: >0.02 mm Vapor Density: NA Evaporation Rate: NA Specific Gravity: 1.1 Flammable Limits LEL: NA Flammable Limits UEL: NA</p>	<p>DOT Shipping Name: Unrestricted (not more than 450 liters); combustible liquids, n.o.s. (Cyanoacrylate ester) (more than 450 liters) DOT Hazard Class: Unrestricted (not more than 450 liters); Combustible (more than 450 liters) DOT Id Number: None (not more than 450 liters); NA1993 (more than 450 liters) IATA Shipping Name/Class: Unrestricted (not more than one pint); Aviation regulated liquid, n.o.s. (Cyanoacrylate Ester) (more than one pint) IATA Class: Unrestricted (not more than one pint); Class 9 (more than one pint) IATA UN or Id Number: None (not more than one pint); UN 3334 (more than one pint)</p>
SECTION 10: STABILITY & REACTIVITY	SECTION 15: REGULATORY INFORMATION
<p>Conditions to Avoid/Incompatibles: Polymerized by contact with water, alcohols, amines and alkalis. Avoid contact with clothing, this may cause polymerization. Large amounts of adhesive will generate heat causing smoke, skin burns, and strong vapors.</p> <p>Decomposition Products: Irritating organic fragments.</p> <p>Hazardous Polymerization: Will not occur.</p>	<p>CA Proposition 65: No chemicals are known to be present.</p>
SECTION 11: TOXICOLOGICAL INFORMATION	SECTION 16: OTHER INFORMATION
<p>See section 4.</p>	<p>Legend NAIF: No Applicable Information Found NA: Not Available/Applicable NE: None Established</p> <p>DISCLAIMER: The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. ALLIED HIGH TECH PRODUCTS, INC. makes no warranty, either express or implied, as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer/distributor shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.</p>
Page 2 of 2:	Form Prepared By: Allied High Tech Products, Inc. January 2010