

MSDS019

Loctite 380 Black Max® INSTANT ADHESIVE

MATERIAL SAFETY DATA SHEET

Chemical Product and Company Identification

LABEL IDENTIFIER: Loctite® 380 Black Max® INSTANT ADHESIVE

PRODUCT IDENTIFIER: P/N 602976 Black Max Adhesive, 1 oz. Tube; Loctite P/N 38050

COMPANY IDENTIFICATION: Mine Safety Appliances Company

P. O. Box 439

Pittsburgh, PA 15230

CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 am - 5:00 pm USA local time)

EMERGENCY: 1-800-255-3924 (CHEM - TEL, INC.)

Vendor Information

A Material Safety Data Sheet as furnished by Loctite Corporation for Black Max, Black Toughened Adhesive 38050 is attached (4 Pages).

Loctite Corporation MSDS REVISION DATE: 1/3/95

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.

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LOCTITE_⊕ MATERIAL SAFETY DATA SHEET

1001 Trout Brook Crossing Rocky Hill, Connecticut 06067-3910 Emergency Phone (203) 571-5100 Fax: (203) 571-5465

Fax: (203) 571- 5465			
L PRODUCT IDENTIFICATION			PRODUCT NO.: 380
PRODUCT NAME:	Black Max® Black Toughened Adhesive		Issued: 5/1/95
ITEM NUMBERS:	38004, 38050, 3	9061	
PRODUCT TYPE: Cyanoacrylate			
II. COMPOSITION			
Ingredients		CAS No. %	
Ethyl cyanoacrylate Ethylene copolymer rubber CARBON BLACK PHTHALIC ANHYDRIDE* HYDROQUINONE		7085-85-0 54545-50-5 1333-85-4 85-44-9 123-31-9 123-31-9 123-31-9 123-31-9	
* This component is listed as a SARA Section 313 Toxic Chemical.			
III. CHEMICAL AND PHYSICAL PROPERTIES			
Vapor Pressur: Vapor Density Solubility in Specific Grav: Boiling Point: Volatile Organ (EPA Method Evaporation Re Ether = 1) PH: Appearance:	e: Water: ity: nic Compound 24)	Less than 0,2mm Approximately 3 Polymerized by water 1.1 More than 300°F 87.9% Not available Does not apply Viscous, black liquid Sharp, irritating	
IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES			
Flash Point: Estimated NFPM Health Hazar Fire Hazard Reactivity Hazar Estimated HMIS Health Hazar Flammability Eeactivity Hazar Flammability Eeactivity Hazar Flammability Eeactivity Hazar Flammability Eeactivity Hazar Explosive Limi (2 by volume i Recommended me Extinguishing Hazardous Prod by Fire or Th Unusual Fire or Explosion Hazar Compressed Gas Pressure at Ro V. SPILL OR L Steps to be ta of spill or i Recommended me	acard: acard: acard: acard: d: d	150 - 200°F Method: Tag Closed 2 2 2 No water 2 2 2 See Section X. 1.7% Phthalic anhydride 10.5% Phthalic anhydride Carbon dioxide, foam, dry chemical Irritating organic vapors None None Does not apply OSAL PROCEDURES Flood with water to polymerize complete polymer is non-hazardous.	ly. Solid
of disposal:		After polymerization as above, incinerate following EPA and local regulations. Planhydride is listed by EPA as hazardous	te ithalic waste
YI. SIORAGE AND HANDLING PROCEDURES			
Safe Storage: (Contact Locti Handling:		Store below 75 deg. F. Service 1-800-243-4874 for Shelf Life In Avoid contact with skin and eyes. Avoid vapor.	nformation) breathing
VII. SHIPPING REGULATIONS			
DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Hazard Class or Division:		Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacryla (More than 450 liters)	te ester)
		Unrestricted (Not more than 450 liters)	

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (203) 571-5100 LOCTITE CORPORATION FAX: (203) 571-5465 MATERIAL SAFETY DATA SHEET Black Max(R) Black Tough Adhesive 38004, 38050, 38061 Product Name: Item No.: VII. SHIPPING REGULATIONS (continued) Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters) None Identification Number: Marine Pollutant: IATA Proper Shipping Name: Unrestricted (Not more than one pint); Other regulated substances (More than one pint) Unrestricted (Not more than one pint); Class 9 (More than one pint) None (Not more than one pint) ID 8027 (More than one pint) Class or Division: UN or ID Number: VIII. REACTIVITY DATA Stability: Hazardous Polymerization: Hazardous Decomposition Products (non-thermal): Incompatability: Stable Will not occur. None Polymerized by contact with water, alcohols, amines, alkalies. IX. EMERGENCY TREATMENT PROCEDURES Ingestion is not likely. See supplemental page for emergency procedures. Remoye to fresh air. If symptoms persist, obtain medical attention.
Soak in warm water. See supplemental page for emergency procedures. Flush with water. See supplemental page for emergency procedures. Ingestion; Inhalation: Skin Contact: Eye Contact: X. PERSONAL PROTECTION Safety glasses or goggles, Nitrile or polyethylene gloves and aprons. Do not use cotton. See supplemental page for additional information. Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below ILV. Eyes: Skin: Ventilation: XI. HEALTH HAZARD DATA Skin contact may cause burns. Bonds skin rapidly and strongly. Skin and eye irritant. Estimated oral LD50 more than 5000mg/kg. Estimated dermal LD 50 more than 2000 mg/kg. None known Toxicity: Primary Routes of Entry: Signs and Symptoms of Exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce allergic reactions with asthmalike symptoms in sensitive individuals.

Existing Conditions
Aggravated by Exposure: None known

Exposure Limits (TWA) Ingredients OTHER Ethyl cyanoacrylate 2 ppm TWA 9.1 mg/m3 5ppm None None None CARBON BLACK PHTHALIC ANHYDRIDE 3.5 mg/m3 TWA 1 ppm TWA 6.1 mg/m3 2 mg/m3 TWA 3.5 mg/m3 TWA 1 ppm TWA 6 mg/m3 2 mg/m3 TWA HYDROQUINONE 2 mg/m3 TWA 4 mg/m3 STEL Exposure Limits (STEL) Ingredients

ACCIH OSHA (PEL) Ethyl cyanoacrylate (4 ppm) (18 mg/m3) (4 ppm) (16 mg/m3)

Ingredients for which no Exposure Limits have been established are not listed above.

LOCTITE CORPORATION 1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (203) 571-5100 FAX: (203) 571-5465 MATERIAL SAFETY DATA SHEET Page 3 of 4 Product Name: Item No.: Black Max(R) Black Tough Adhesive 38004, 38050, 38061 XI. HEALTH HAZARD DATA (continued) Literature Referenced Target Organ and Other Health Effects Carcinogen NTP IARC OSHA Ingredients Ethyl cyanoacrylate Ethylene copolymer rubber CARBON BLACK PHTHALIC ANHYDRIDE HYDROQUINONE

Abbreviations

N/A Not Applicable BLO Blood CNS Central nervous system EYE Eyes IRR Irritant RES Respiratory

ALG Allergen BNM Bone Marrow COR Corrosive IMM Immune system MUT Mutagen SKI Skin

XII. REGULATORY COMPLIANCE

CA Proposition 65:

Not available

XIII. PREPARATION INFORMATION

Prepared By: Title: Company: (24hr,) Phone: Revision Date:

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Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(203) 571-5100
January 03, 1995
Revision: 0026

LOCTITE CORPORATION

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Product Name: Item No.:

Black Max(R) Black Tough Adhesive 38004, 38050, 38061

Supplement

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INFORMATION FOR FIRST AID 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 including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION
First immerse the bonded surfaces in warm, soapy water. Peel or roll
the surfaces apart with the aid of a blunt edge, e.g. a spatula or a
teaspoon handle; then remove adhesive from the skin with soap and
water. Do not try to pull surfaces apart with a direct opposing
action.

EYELID TO EYELID OR EYERALL 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 EYERALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering seyeral 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 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.