MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated,

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XI. HEALTH HAZARD DATA
TOXICITY:
SKIN AND EYE IRRITANT
LOW TOXICITY BY IRRITANT
LOW TOXICITY BY INGESTION
INFORMATION FOR FIRST ALD AND CASUALTY ON TREAT-
MENT FOR SKIN ADHESION: FIRST
HEMPERE ITHE BONDED SURFACES IN WARM SOAPY WATER.
PEEL OR ROLL THE SURFACES APART WITH THE ALD OF
A BLUNT EDGE, E.G. SPATULA OR TEASPOON HANDLE;
THEN REMOVE ADHESIVE FROM THE SKIN WITH SOAP AND
WATER. DO NOT TRY AND PULL SURFACES APART WITH
A DIRECT OPPOSING ACTION.
EYELD TO EYELD TO REYEBALL ADHESION: IN THE
EVENT THAT EYELIDS ARE STUCK TOGETHER OR BONDED
TO THE FYEBALL WASH THOROUGHLY WITH WARN WATER
AND SUPPLY A GAUZE PATCH. THE EYE WILL OPEN
MITHOUT FURTHER ACTION. DO NOT TRY TO OPEN THE
EYES BY MANIPULATION. ADHESIVE ON THE EYEBALL:
CYANOACRIVATES INTRODUCED INTO THE EYES WILL
ATTACH ITSELF TO THE EYE PROTEIN AND WILL
DISSOCIATE FROM IT OYER INTERMITTENT PERIODS,
GENERALLY COVERING SEVERAL HOURS.
           MATERIAL SAFETY DATA SHEET
                                                                                                                                                                                                                                                                                                                                                                                 75274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BONDS SKIN RAPIDLY AND STRONGLY
           5E204
LOCITIE CORPORATION 01/09/95
ROCKY HILL CONNECTICUT 06067
EMERGENCY PHONE: (203) 571-5100
           Super Bonder(R) Gluematic(R) Pen
         I. PRODUCT IDENTIFICATION
Product Name:
Item No.:
Product Type:
Formula No.:
                                                                                                                                                                         Super Bonder(R) Gluematic(R) Pen 49595 - 5E204
                                                                                                                                                                         Cyanoacrylate Ester Adhesive
Does not apply
          II. COMPOSITION
Ingredients
Ethyl cyanoacrylate
Poly (methyl methacrylate)
HYDROQUINOME
   III. CHEMICAL AND PHYSICAL PROPERTIES
Vapor Pressure:
Vapor Density:
Solubility in Water:
Specific Gravity:
Boiling Point:
Volatile Organic Compound
EPA Method 24)
Evaporation Rate
(Ether = 1)
Di:
Not available
                                                                                                                                                                                                                                                                                                                                0.1-0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Primary Routes of Entry: SKIN Signs and Symptoms of Exposure: above TLV. Existing Conditions Aggravated by Exposure: None A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vapor is irritating to eyes and mucous membranes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   None known
                                                                                                                                                                     Not available
Not Applicable
Clear liquid
Sharp, irritating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Exposure Limits (TWA)
Ingredients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER
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         Appearance:
Odor:
  Appearance: Clear liquid
Odor: Sharp, irritating

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES
Flash Point: 150-200\( \frac{1}{2} \)
Estimated NFPA Code: 150-200\( \frac{1}{2} \)
Health Hazard: 2
Fire Hazard: 2
Fire Hazard: 7
Specific Hazard: 8
Specific Hazard: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ethyl cyanoacrylate
HYDROQUINONE
4 mg/m3STEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       None
2 mg/m3 TWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        None
2 mg/m3 TWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 ppm TWA
2 mg/m3 TWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Exposure Limits (STEL)
Ingredients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACGIH!
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Ingredients
Ethyl cyanoacrylate
Poly (methyl methacrylate)
HYDROQUINONE

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LON Data
BLO IRR LIV MUT NER REP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Abbreviations
N/A Not Applicable
IRR Irritant
LUN Lung
NER Nervous System
SKI Skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       XII. PREPARATION INFORMATION
Prepared By:
Stephen Repetto
Research Chemist, Environmental Health & Safety
Company:
Loctite Corp; 1001 Ir Br Cr, Rocky Hill CT 06067
(24hr.) Phone:
(203) 571-5100
Revision Date:
January 03, 1995
Revision: 0024
Of disposal:
Incinerate following EPA and local regulations.

VI. STORAGE AND HANDLING PROCEDURES
Safe Storage:
Store below 75 deg. F.
Handling:
Avoid contact with skin and eyes. Avoid breathing vapors?
Handling:
Avoid contact with skin and eyes. Avoid breathing vapors?
Hill Handling:
Avoid contact with skin and eyes. Avoid breathing vapors?
Hill Handling:
Avoid contact with skin and eyes. Avoid breathing vapors?
Hill Handling:
Avoid contact with skin and eyes. Avoid breathing vapors?
Hill Handling:
Homestricted (Not more than 450 liters);
Combustible liquid (More than 450 liters)
Hazard Class'or:
Homestricted (Not more than 450 liters)
Combustible liquid (More than 450 liters)
Lidentification Number:
Home (Not more than 450 liters);
Harine Pollutant:
Hardling Name:
Homestricted (Not more than one pint);
Class or Division:
Unrestricted (Not more than one pint);
Class'9 (More than one pint)
UNION IN Number:
Homestrick (Not more than one pint)
Homestrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Supplement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADMESSON OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADMESSIVES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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. Ireatment of specific types of accidents are given below.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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 ADMISSION

SKIN ADMISSION

First immerse the bonded surfaces in warm soapy waters 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 ADMESION

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.
      TX: IMPERCENCY TREATMENT PROCEDURES Ingestion: Ingestion: Ingestion is not likely. See supplemental page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 lachymatory 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.
      Ingestion:
Inhalation:
Inhalation:
Skin Contact:
emergency procedures.
Eventual attention.
Skin Contact:
emergency procedures.
Eventual attention.
Soak in warm water. See supplemental page for emergency procedures.
Flush with water. See supplemental page for emergency procedures.
                                                                                                                                                                     Soak in warm water. See supplemental page for
                                                                                                                                                                     Flush with water. See supplemental page for
                      PERSONAL PROTECTION
  X. PERSUMAL PROJECTION
Separation:
Safety glassociation of polyethylene gloves and appearance of the project of the project of the project of the project of the provided to maintain vapor concentration

Example:

Safety glassociation of polyethylene gloves and appearance of the project of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 lu
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to the first

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. Suppose the 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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