

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT TRADE/ON LABEL: ChemTrek™ Polymer Handcuff, CHE
 PRODUCT NAME: 100% Butyl Acetate DATE PRINTED: 25-Mar-94
 DISTRIBUTOR:
 SEAMLESS TECHNOLOGIES, INC. EMERGENCY TELEPHONE: CHEMTREC
 7460 LANCASTER PIKE - SUITE 9 24 HOURS A DAY 1 (800) 424-9300
 HOCKESSIN, DE 19707 INFORMATION TELEPHONE: 302-234-3750
 DATE PREPARED: 25-Mar-94 PREPARED BY/REVISION DATE: P/MSK
 P/MSK

SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt %	OSHA PEL	ACGIH TLV
Diethylamine	105-57-8		H.F.	H.F.
Diethyl ether	109-87-8		H.F.	H.F.
Diethyl phthalate	84-66-2		H.F.	H.F.
Diethyl phthalate	84-66-2		H.F.	H.F.

T.S.C.A. Status - OK on all above components.

SECTION 3 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE : yellow to amber SPECIFIC GRAVITY (H2O=1.0) : 0.879
 PHYSICAL STATE : liquid DENSITY (LB/GAL) : 7.25
 VAPOR PRESSURE : 0/A mm Hg. MELTING POINT (°C) : 0/A
 ODOR : amine ether EVAPORATION RATE : 0/A
 VAPOR DENSITY : 0/A (Butyl Acetate = 1)
 WATER SOLUBILITY : negligible V.O.C. : 0/A
 13-100

SECTION 4 - STABILITY & REACTIVITY

STABILITY : Stable
 CONDITIONS TO AVOID : Keep container closed, away from heat, sparks, open flame, and other sources of ignition.
 INCOMPATIBILITY : Avoid contact with strong oxidizing agents, acids, and bases.
 HAZARDOUS DECOMPOSITION BYPRODUCTS: When heated, it may decompose to form acetic acid, ethane, and ethylene.
 HAZARDOUS POLYMERIZATION : Will not polymerize.
 CONDITIONS TO AVOID : None known. Avoid contact with strong oxidizing agents, acids, and bases.
 13-100

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SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP METHOD) : 100°C LOWER EXPLOSIVE LIMIT : 11%
 UPPER EXPLOSIVE LIMIT : 18%

EXTINGUISHING MEDIA : foam, dry chemical, water spray

SPECIAL FIRE FIGHTING PROCEDURES : Use full protective equipment including self-contained breathing apparatus. Avoid contact with eyes and bases may be ignited by fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS : Products may be highly flammable. Do not mix with water spray or other materials which could cause a reaction.

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION? *yes* SKIN? *yes* INGESTION? *yes*

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation of skin.

HEALTH HAZARDS (ACUTE AND CHRONIC):
 ACUTE: Irritation of skin and dermatitis.
 CHRONIC: Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Dermatitis persons may experience mild irritation of skin upon exposure. NOTE: Persons with lung disorders or who are sensitized should not use this product.

CARCINOGENICITY: NTP? *No* IARC MONOGRAPHS? *No* OSHA REGULATED? *No*

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:
 Allergy, skin disorders.

SECTION 7 - FIRST AID PROCEDURES

EYES: Flush with water, holding lid open for 15 minutes or more. Call physician for advice if necessary.

SKIN: Promptly wash with soap and water. Do not wash with oil solvents. Seek medical advice if irritation develops or persists.

INHALATION: Move person to fresh air. If effects occur, if needed, give oxygen or artificial respiration to improve breathing. Consult physician.

INGESTION: Get medical attention immediately. Never give anything to an unconscious or convulsing person.

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective clothing to prevent exposure. Stop spill and if necessary, stop breathing. Cover spill with absorbent materials and collect into suitable containers. Clean contaminated area with detergent and water in the proper manner for best results.

WASTE DISPOSAL METHOD: Dispose in accordance with all Federal, State and local requirements.

HANDLING AND STORAGE PRECAUTIONS: Read and understand all instructions before use.

OTHER PRECAUTIONS: None.

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SECTION 9 - EXPOSURE CONTROL & PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use wide adequate exhaust ventilation and/or NIOSH approved airline carbide respirator.

VENTILATION: LOCAL EXHAUST: If needed **SPECIAL:** none known

MECHANICAL (GENERAL): Adequate exhaust ventilation must exhaust away from the application.

PROTECTIVE GLOVES: nitrile, rubber or neoprene gloves

EYE PROTECTION: splash goggles or face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Laundry contaminated clothing should be reused. Discard contaminated leather shoes and canvas shoes. Protective skin creams help cleaning with soap and water, however, gloves must still be worn. An eye wash station or an adequate supply of clean water must be available at the work area.

WORK/HYGIENIC PRACTICES: Enforce careful handling to prevent splashing. Wash thoroughly after handling.

SECTION 10 - OTHER INFORMATION

HMS RATINGS: HEALTH :2
FLAMMABILITY :3
REACTIVITY :1
PERSONAL PROTECTION :G

KEY TO ABBREVIATIONS:

N.E. = none established

NOTICE

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END OF MSDS