L118

MATERIAL SAFETY DATA SHEET #2318

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : CONTACT CEMENT
IDENTIFICATION NUMBER: 51368, 51369 (7w79758)
PRODUCT USE/CLASS : Adhesive

SUPPLIER:
Fel-Pro Chemical Products, L.P.
3412 W. Touhy Ave.
Lincolnwood, IL 60645

CHEMTREC 24 HRS: 800-424-9300 CHEMTREC 24 HRS: 800-424-9300
PREPARER: Cathy Griffith, PHONE: 303-289-5651, PREPARE DATE: 05/29/96

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	Amorphous silicon dioxide	112945-52-5	5.0 %
02	HEPTANE	142-82-5	45.0 %
03	Methyl Ethyl Ketone	78-93-3	25.0 %
04	Toluene	108-88-3	15.0 %
05	MAGNESIUM OXIDE	1309-48-4	5.0 %

EXPOSURE LIMITS

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-STEL	U/K TLV-TWA	SKIN
01	6 mg/m3	N.E.	6 mg/m3	N.E.	N.E.	NO
02	400ppm	500ppm	400ppm	500ppm	N.E.	NO
03	200 PPM	300 PPM	200 PPM	300 PPM	200 ppm	NO
04	100 ppm	150 ppm	100 ppm	150 ppm	100 ppm	NO
05	N.E.	N.E.	10mg/m3 (td)	N.E.	5mg/m3 (rd)	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXTREMELY FLAMMABLE Liquid and Vapor. Vapors may cause Flash Fire. Vapor Harmful. May affect the brain or nervous system causing dizziness, headache, or nausea. Respiratory Irritant. Causes Eye Irritation. Causes Skin Irritation. Harmful or Fatal if swallowed. Birth Defect Hazard. Chronic Health Hazard. Contains ingredients which may cause organ damage. Refer to Health Hazards Section of Material Safety Data Sheet.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Severe irritant. Prolonged contact with material or vapors may cause permanent corneal injury.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Mild irritant. Contact may cause drying and defatting of the skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Respiratory irritant and intoxicant. Overexposure may cause headache, nausea, and vomiting, leading to unconsciousness. Liquid aspirated into lungs may be harmful or fatal.

EFFECTS OF OVEREXPOSURE - INGESTION: May cause irritation of mouth, throat and stomach if ingested, with nausea, stomach pain, and/or vomiting. Ingestion may cause central nervous system depression.

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SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Studies suggest that solvent chronic overexposure and/or systemic toxicity effects are targeted at the kidneys and central nervous system. Deliberate and repeated inhalation of concentrated solvent vapors may be harmful or fatal. Animals exposed to high levels of toluene developed cardiac arrhythmia, which may cause fatal changes in heart rhythms. There is no evidence that humans exposed to levels at or below the TLV will experience such changes. Reproductive studies involving rodents repeatedly exposed to toluene at elevated levels showed developmental effects. Deliberate and repeated inhalation of concentrated solvent vapors may be harmful or fatal, and may cause permanent neural damage. This product contains encapsulated amorphous silicon dioxide. No exposure to free respirable dust is anticipated during normal use of this product. It should be noted, however, that prolonged occupational overexposure to respirable amorphous silica may cause lung effects. Such lung effects may occur with or without a decrease in lung function.

PREEXISTING CONDITIONS/SYNERGISTIC EFFECTS INFORMATION: Preexisting pulmonary and dermatological conditions may be aggravated by exposure to hazardous components. Exposure to methyl ethyl ketone in the presence of n-hexane can potentiate the development of peripheral polyneuropathy, a known neurotoxic effect associated with overexposure to n-hexane. There is no reported human evidence that these neurotoxic effects occur when expsoure to both chemicals is maintained below recommended safe exposure limits.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes with clean water at least 15 minutes. Obtain immediate medical attention.

FIRST AID - SKIN CONTACT: Flush with water. Follow with a thorough soap and water wash. Remove and wash contaminated clothing. Seek medical attention if irritation persists.

FIRST AID - INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Obtain medical attention.

FIRST AID - INGESTION: Give water or milk if victim is conscious and not drowsy. DO NOT induce vomiting. Should vomiting occur, keep victim's head below hips to avoid aspiration of vomitus into the lungs. Do not induce vomiting without medical supervision. Should vomiting occur, keep victim's head below hips to avoid aspiration of vomitus into the lungs. Obtain IMMEDIATE medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 20 F (TAGLIABUE CLOSED CUP)
LOWER EXPLOSIVE LIMIT: 1.1 %
UPPER EXPLOSIVE LIMIT: 12.0 %
AUTOIGNITION TEMPERATURE: No data
EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion. Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Vapors are heavier than air, and may travel along the ground to be reignited at locations distant from the source; flashback of flame may occur. "Empty" containers may contain dangerous or explosive residues (liquid or vapor). DO NOT pressurize, cut, drill, or grind or puncture

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SECTION 5 - FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS:(cont)empty container. DO NOT weld, braze, or solder on or near empty container. DO NOT expose such containers to heat, sparks, flame, static electricity, or other sources of ignition; they may explode and cause injury or death.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Wear appropriate protective equipment. Shut off source of leak if safe to do so. Contain spill. Eliminate sources of ignition. Absorb with inert material such as clay. Place into containers with lids. Cover loosely and remove to appropriate waste area. Wash spill area. Sweep or shovel into containers with lids and remove to appropriate waste area. Wash spill area with soap and water. Prevent washings from entering waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid contact with skin and eyes. Wash thoroughly after handling. DO NOT breathe vapors, dusts, or mists. FOR INDUSTRIAL USE ONLY

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust as needed to control vapors or dust levels to below lowest component recommended safe exposure limit.

RESPIRATORY PROTECTION: If the TLV is exceeded, if use is performed in a poorly ventilated space or area with limited ventilation, use an appropriate NIOSH- approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations. If use is performed in a confined space, use appropriate NIOSH- approved respirator in accordance with confined-space entry regulations.

SKIN PROTECTION: Clean clothing to cover skin Butyl rubber gloves Nitrile gloves Viton gloves PVA Gloves Supported PVA gloves
EYE PROTECTION: Chemical splash goggles
OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower

HYGIENIC PRACTICES: Do not smoke or eat while using material Follow all MSDS/label precautions even after container is empty. DO NOT reuse empty container without commercial clean or recondition.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 175 - 232 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Solvent	ODOR THRESHOLD	: Appr 1 ppm
APPEARANCE	: Amber	EVAPORATION RATE	: Is faster than Butyl Acetate
SOLUBILITY IN H2O	: Negligable		
FREEZE POINT	: no data	SPECIFIC GRAVITY	: 0.8590
VAPOR PRESSURE	: no data	pH @ 0.0 %	: no data
PHYSICAL STATE	: Liquid	VISCOSITY	: Thin

COEFFICIENT OF WATER/OIL DISTRIBUTION: no data

(See Section 16 for abbreviation legend)

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SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Prolonged exposure to elevated temperatures

INCOMPATIBILITY: Acids. Reacts with water to produce magnesium hydroxide.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Oxides of carbon. Acrid fumes

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT LD50: mg/kg PRODUCT LC50: 75 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
Amorphous silicon dioxide	No Information	No Information
HEPTANE	No Data	75g/m3/2H (mouse)
Methyl Ethyl Ketone	Derm rbt 6480mg/kg	23500mg/m3/8h(rat)
Toluene	Oral, rat 636mg/kg	>26500ppm/1H (rat)
MAGNESIUM OXIDE	No Information	No Information

SECTION 12 - ECOLOGICAL INFORMATION

No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

PREFERRED DISPOSAL METHOD: Disposal in accordance with all applicable Federal, state, and local regulations concerning health and disposal Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Incineration preferred.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Adhesive
DOT TECHNICAL NAME:
DOT HAZARD CLASS: 3 FLAMMABLE LIQUID HAZARD SUBCLASS:
DOT UN/NA NUMBER: UN1133 PACKING GROUP: II RESP. GUIDE PAGE: 26

UN PROPER SHIPPING NAME: Adhesive, 3, UN1133, PG II
SUPPLEMENTAL IMO/IMDG/AIR INFORMATION:: UN1133, Page 3174, EmS 3-05, MFAG 330

SECTION 15 - REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:
This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:
IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

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SECTION 15 - REGULATORY INFORMATION

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % IS LESS THAN
Methyl Ethyl Ketone	78-93-3	25.0 %
Toluene	108-88-3	15.0 %

TOXIC SUBSTANCES CONTROL ACT:
The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER

No information is available.

CALIFORNIA PROPOSITION 65:
WARNING:This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm:

CHEMICAL NAME	CAS NUMBER
Toluene	108-88-3

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
CANADIAN WHMIS CLASS: D2B, B2

CERCLA REPORTABLE QUANTITY (Minimum, as product, lbs.): 1,000
CERCLA REPORTABLE QUANTITY (Minimum, as waste, lbs.): 100

RCRA WASTE NUMBER(S) AND CLASS(ES): D001, Flammable U220, Flammable, Toxic U154, Flammable, Toxic

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 12-18-92
REASON FOR REVISION: Update California Proposition 65
REISSURE REQD: n

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

Abbreviations (cont.): ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - US Occupational Safety and Health Administration
UK - United Kingdom GER - Germany
TLV - Threshold Limit Value TWA - Time-Weighted Average (8hrs)
STEL - Short-term Exposure Limit (15 minutes)
C - Ceiling Value PEL - Permissible Exposure Limit

To the best of our knowledge, the information on this MSDS is accurate or has been obtained from sources believed to be accurate. However, no liability whatsoever is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the Material.

<END OF MSDS