

2-07001 PG 111

X150040

FR701R

ITEM NO: 1500020

MATERIAL SAFETY DATA SHEET
(PREPARED IN ACCORDANCE WITH 29 CFR 1910.1200)

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MANUFACTURER'S NAME: CLARK-SCHWEBEL DISTRIBUTION CORPORATION
ADDRESS: 366 WEST NICKERSON ST SEATTLE WA 98119
EMERGENCY TELEPHONE: 1-206-283-6868
CHEMTREC NO: 1-800-424-9300
NAME OF PERSON RESPONSIBLE FOR PREPARATION: DAVID L ELLSWORTH
DATE PREPARED: 4/06/94

SECTION I - IDENTITY

COMMON NAME: CHEM-RES PUTTY, HETRON 922 CHEM-RES PUTTY
CHEMICAL NAME: ADHESIVE PUTTY CHEMICAL FAMILY: POLYESTER RESIN
D.O.T. PROPER SHIPPING NAME: RESIN SOLUTION (RESIN COMPOUND LIQUID)
D.O.T. HAZARD CLASS: FLAMMABLE LIQUID D.O.T. I.D. NO: UN1866
EMERGENCY RESPONSE GUIDE #: 26

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL & COMMON NAME	%WT	APPLICABLE EXPOSURE LIMITS		
		PEL-WISHA/OSHA	TLV-ACGIH	OTHER
UNSATURATED POLYESTER BASE RES	30-40	NONE ESTAB	NONE ESTAB	
STYRENE	25-30	100PPM TWA	50PPM	

*SUBJ TO REPORTING REQUIREMENT UNDER SARA TITLE III, SECTION 313, TOXIC
CHEMICAL RELEASE INVENTORY, EPA FORM R, CARCINOGENIC INGREDIENTS

CHEMICAL & COMMON NAME	%WT	REFERENCE SOURCE		
		NTP	IARC	WISHA/OSHA
STYRENE	25-30		GROUP 2B	

SECTION III - HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS: PRIMARY EFFECTS OF THIS PRODUCT WILL PROBABLY BE DUE TO STYRENE. INHALATION: MAY CAUSE DROWSINESS, NAUSEA, HEADACHE, FATIGUE, NARCOSIS AND DIZZINESS. SEVERE EXPOSURE MAY CAUSE A CONFUSED STATE. IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT MAY OCCUR. SKIN CONTACT: IRRITATION MAY OCCUR, MAY BE ABSORBED THROUGH THE SKIN. EYE CONTACT: IRRITATION OF MUCOUS MEMBRANES; PAIN AND REDNESS MAY OCCUR. INGESTION: SORE THROAT, ABDOMINAL PAIN AND VOMITING MAY OCCUR.

CHRONIC HEALTH EFFECTS: SKIN CONTACT: PROLONGED EXPOSURE POSSIBLY DEVELOPING TO DERMATITIS. IF ECZEMATOUS DEVELOPS, THIS MOST OFTEN OCCURS ON THE BACK OF THE HANDS, WRISTS AND FOREARMS.

ROUTES OF ENTRY: INHALATION AND SKIN

MEDICAL CONDITIONS. AGGRAVATED BY EXPOSURE; INDIVIDUALS WITH CHRONIC RESPIRATORY CONDITIONS (I.E., ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE MATTER EXPOSURE.

EMERGENCY & FIRST AID PROCEDURES: INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS STOPPED OR IS DIFFICULT, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL AID. IF SYMPTOMS PERSIST, CONSULT PHYSICIAN. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION OCCURS, SEEK MEDICAL AID. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER. LIFT UPPER AND LOWER EYELIDS OCCASIONALLY. SEEK MEDICAL AID. INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL AID.

SECTION IV - CHEMICAL DATA

BOILING POINT (AT 760MM HG) (F): 293
VAPOR PRESSURE (MM HG): 5.2
VAPOR DENSITY (AIR=1) 3.6
SPECIFIC GRAVITY (H2O=1) 1.25
% VOLATILE BY VOLUME: 30-40
EVAPORATION RATE (ETHER =1): 12.4

SOLUBILITY (SPECIFY SOLVENTS): WATER - INSOLUBLE
MOST ORGANIC SOLVENTS - SOLUBLE

APPEARANCE AND ODOR: UNPIGMENTED, PUTTY-LIKE MATERIAL. SHARP STYRENATED ODOR.

SECTION V - PHYSICAL HAZARD DATA

FLASH POINT (METHOD USED): PENSKY-MARTEN CLOSED CUP 90 DEGREES (STYRENE)

FLAMMABLE LIMITS: STYRENE
LEL: 1.1% UEL: 6.1%

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL (SMALL FIRES), FOAM AND WATER FOG (LARGE FIRES)

SPECIAL FIRE FIGHTING PROCEDURES: COOL TANKS AND DRUMS WITH WATER. REFIIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: HIGH TEMPERATURE EXPOSURE FOR EXTENDED PERIODS OF TIME WILL RESULT IN SPONTANEOUS UNCONTROLLED EXOTHERMIC POLYMERIZATION.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, PEROXIDES AND OTHER OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: ACRID BUMES ARE EMITTED UPON DECOMPOSITION. INCOMPLETE COMBUSTION WILL PRODUCE CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: MAY OCCUR

CONDITIONS TO AVOID: EXPOSURE TO HEAT, OPEN FLAME OR CONTAMINATION WITH OXIDIZING AGENTS. AVOID STORAGE ABOVE 38C (100F)

STABILITY: UNSTABLE

CONDITIONS TO AVOID: EXPOSURE TO EXCESSIVE HEAT OR OPEN FLAME; STORAGE IN OPEN CONTAINERS, PROLONGED STORAGE (6 MONTHS)

SECTION VI - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL IGNITION SOURCES AND OPEN FLAMES. INCREASE VENTILATION TO MAXIMIZE VAPOR DISPOSAL. DIKE LARGE SPILLS TO PREVENT RUNOFF INTO SEWERS OR WATERWAYS. COVER SPILL WITH INORGANIC ABSORBENT MATERIAL (VERMICULITE). SWEEP UP AND PLACE IN LABELLED DRUM. STYRENE IS ON THE CERCLA HAZARDOUS SUBSTANCE LIST OF 1980, AS AMENDED, AND REPORTABLE SPILLS MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (1-800-424-8802)

WASTE DISPOSAL METHODS: EPA WASTE IDENTIFICATION NO. 0001. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. FOR HAZARDOUS WASTE REGULATIONS, CALL 1-800-424-9346, THE RCRA HOTLINE.

SECTION VII - EXPOSURE CONTROL INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): RESPIRATORY PROTECTION APPROVED BY OSH/MSHA FOR PROTECTION AGAINST ORGANIC VAPORS.

VENTILATION: LOCAL EXHAUST TO CONTROL EMISSION OF AIR CONTAMINANTS. DILUTION VENTILATION TO ASSIST IN REDUCTION OF AIR CONTAMINANTS.

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PROTECTIVE GLOVES: CHEMICAL RESISTANT GLOVES TO PROTECT HANDS.

EYE PROTECTION: CHEMICAL EYE GLASSES OR FACE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: EMERGENCY EYE WASH STATIONS AND DELUGE SAFETY SHOWERS SHOULD BE AVAILABLE IN THE WORK AREA.

OTHER ENGINEERING CONTROLS: NONE SPECIFIED

WORK PRACTICES: EMPLOYEES SHOULD WEAR CHEMICAL SAFETY GLASSES TO PROTECT EYES, OR A FACE SHIELD WHEN NEEDED TO PREVENT CONTACT WITH SPLASHED MATERIALS. POLYVINYL ALCOHOL AND POLYETHYLENE PROTECTIVE GARMENTS ARE RECOMMENDED FOR PROTECTION AGAINST MATERIALS OF THIS CLASS

HYGIENIC PRACTICES: EMPLOYEES SHOULD REMOVE CLOTHING THAT HAS BEEN SATURATED WITH THE PRODUCT BECAUSE STYRENE IS ABSORBED THROUGH THE SKIN. SKIN EXPOSURES SHOULD BE FLUSHED WITH LARGE AMOUNTS OF WATER.

SECTION VIII - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: AVOID PROLONGED OR REPEATED CONTACT WITH THE SKIN. AVOID EYE CONTACT. STORE IN A COOL DRY AREA. DO NOT STORE IN DIRECT SUNLIGHT. WORK WITH ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MINIMIZE EXPOSURE TO VAPORS. BAND AND GROUND CONTAINERS FOR TRANSFER OF THIS PRODUCT TO PREVENT STATIC SPARKS.

MAINTENANCE PERSONNEL: STYRENE VAPORS ARE UNINHIBITED AND MAY CAUSE BLOCKAGE OF VENTILATION VENTS DUE TO POLYMERIZATIONS. PERIODIC INSPECTION MAY BE NECESSARY TO PREVENT BLOCKAGE.

OTHER PRECAUTIONS: IARC HAS RECLASSIFIED STYRENE FROM A GROUP 3 SUBSTANCE TO GROUP 2B, "POSSIBLY CARCINOGENIC TO HUMANS". THE NEW CLASSIFICATION IS NOT BASED ON ANY SIGNIFICANT NEW EVIDENCE THAT STYRENE IS CARCINOGENIC, BUT RATHER ON A BROADENING OF THE DEFINITION FOR THE GROUP 2B CLASSIFICATION.