MATERIAL SAFETY DATA SHEET:  W/M FIX ALL  
(281479-01431 - BO193850-5891)  
SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS:  N/A
TRADE NAME & SYNONYMS:  W/M FIX ALL

CHEMICAL FAMILY:  ADHESIVE-SOLVENT BASED
FORMULA:  X = MIXTURE

MANUFACTURER'S NAME:  CHEMSEARCH DIV. OF NCH CORP.

ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE):
BOX 152170
IRVING
TX 75019

PREPARED BY:  K RAM/CHEMIST
PRODUCT CODE NUMBER:  5891
EMERGENCY TELEPHONE NUMBER:  972-438-1981

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

CHEMICAL NAME (INGREDIENTS):
PERCHLOROETHYLENE
HAZARD:  CARC 4.5
STELT(WA) = NA

PEL = 25PPM 2

SECTION IIIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE

SECRET REGISTRY #:  409363-5506P

SECTION III - PHYSICAL DATA

BOILING PT. (F):  250
SPEC. GRAVITY (H2O = 1):  1.9

VAPOR PR. (MM HG): N/A
COLOR:  COLORLESS

VAPOR DENSITY:  > 1
ODOR:  ETHER LIKE

PH:  N/A
CLARITY:  CLEAR

% VOLATILE BY VOL:  67
EVAPORATION RATE:
( BU A/C = 1  )  N/A

H2O SOLUBILITY:  INSOLUBLE

VISCOITY:  VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT:  NON-FLAM

FLAMMABLE LIMITS
N/A

T.C.C. :  N/A

EXTINGUISHING MEDIA:
"ALCOHOL"
DRY CLOTH
X < CO2
X < CHEMICAL
X < SPRAY
X < OTHER

SPECIAL FIRE FIGHTING PROCEDURES:
CHEMICALS EXTINGUISHING MEDIA BASED ON NATURE OF SURROUNDING FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED, POSITIVE-PRESSURE BREATHING APPARATUS. AVOID SKIN CONTACT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
EXPOSURE TO FLAMES OR OTHER HEAT SOURCES WILL RESULT IN THERMAL DECOMPOSITION FORMING TOXIC GASES, HYDROGEN CHLORIDE, PHOSGENE, OR CHLORINE

NFPA HAZARD RATING:
( 0 = INSIGNIFICANT; 1 = SLIGHT; 2 = MODERATE; 3 = HIGH; 4 = EXTREME):  2 < HEALTH  0 < FLAMMABILITY  0 < REACTIVITY  < SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:
NOT ESTABLISHED FOR MIXTURE (SEE SECTION II).
EFFECTS OF OVEREXPOSURE:

- ACUTE - (SHORT TERM EXPOSURE)
  Inhilation: 100 PPM 7 HRS MILD IRRITATION TO EYES, NOSE, AND THROAT; PLUSHING OF FACE AND NECK; HEADACHE, SLURRED SPEECH, AND DROWSINESS. 300 PPM FOR 1 HOUR CAUSES THE SAME SYMPTOMS, PLUS DIZZINESS AND LIGHT-HEADEDNESS. 800 PPM FOR 10 MINUTES CAUSES SENSATION OF NUMBNESS AROUND MOUTH, DIZZINESS, AND INCOORDINATION. 3,000 PPM CAUSES MILD NARCOSIS WITHIN 5 MINUTES. 6,000 PPM CANNOT GENERALLY BE TOLERATED AND CAUSES VERTIGO, CONFUSION, AND UNCONSCIOUSNESS OR DEATH CAN OCCUR AT EXTREMELY HIGH CONCENTRATIONS OR ON PROLONGED EXPOSURES ABOVE 500 PPM. SKIN PROLONGED OR REPEATED CONTACT OF LIQUID CAN CAUSE IRRITATION, DEFITTING OF SKIN, AND DERMATITIS. PROLONGED SINGLE EXPOSURE CAN RESULT IN PROGRESSIVELY SEVERE BURNING SENSATION AND REDNESS. ABSORPTION THROUGH INTACT SKIN IS POSSIBLE IF CONTACT WITH LIQUID IS PROLONGED. EYES: LIQUID IN EYES PRODUCES PAIN AND IRRITATION WITH MILD TEMPORARY DAMAGE POSSIBLE. VAPOR CAN IRRITATE EYES.
  OVEREXPOSURE SHOULD BE AVOIDED. FAILURE TO DO SO MAY RESULT IN INJURY, ILLNESS, OR EVEN DEATH.

- CHRONIC - (LONG TERM EXPOSURE)
  TARGET ORGANS: LIVER, KIDNEY, SKIN, EYES AND RESPIRATORY TRACT.

PRIMARY ROUTE OF ENTRY: X<-- INHALATION X<-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION PERSISTS OR BREATHING BECOMES DIFFICULT.

INGESTION:
FLUSH EYES IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN, OCCASIONALLY TO ENSURE RINSING. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN WITH SOAP AND WATER FOR FIFTEEN MINUTES. WASH CONTAMINATED CLOTHING BEFORE REUSE. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

DO NOT INDUCE VOMITING. CONTACT PHYSICIAN OR EMERGENCY MEDICAL FACILITY IMMEDIATELY. GIVE 3-4 GLASSES OF WATER TO DILUTE STOMACH CONTENTS.

NOTES TO PHYSICIAN:
ADRENALINE SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED TO THIS PRODUCT. GASTRIC LAVAGE MAY BE EFFECTIVE WITHIN FOUR HOURS OF INGESTION.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:
IARC X<-->YES NTP X<-->YES OSHA X<-->YES AGIHE X<-->YES OTHER X<-->YES
NTP X<-->NO OSHA X<-->NO AGIHE X<-->NO OTHER X<-->NO

PERCHLORODETHYLANE

IHL-RAT LC50: 4000 PPM/4HR 3. 
DRL-MUS LD50: 8100 MG/KG 3.
DRL-RAT LD50: 8100 MG/KG 3.
SKN-RAT: 810 MG/24 Hr SEV. 3.
OIL-WAS CARC: 936MG/KG/6/7i7/8W. 6.

AN INCREASED INCIDENCE OF MONONUCLEAR CELL LEUKEMIA WAS SEEN IN RATS INHALING 200 TO 400 PPM OF PERCHLORODETHYLENE FOR 2 YEARS. PERCHLORODETHYLENE HAS CAUSED LIVER AND KIDNEY TOXIC EFFECTS IN CHRONICALLY EXPOSED EXPERIMENTAL ANIMALS. RESULTS FROM ANIMAL STUDIES INDICATE A POSSIBLE HUMAN CARCINOGENIC RISK: 4.

RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

SECTION VII - REACTIVITY DATA

STABILITY: X<-->STABLE X<-->UNSTABLE

AVOID CONTACT WITH OPEN FLAME, ELECTRIC ARCS OR OTHER HOT SURFACES WHICH CAN CAUSE THERMAL DECOMPOSITION.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZERS, CAUSTIC SODA OR POTASH.
HAZARDOUS DECOMPOSITION PRODUCTS:
HYDROGEN CHLORIDE, PHOSGENE, CHLORINE AND OXIDES OF CARBON.

<table>
<thead>
<tr>
<th>HAZARDOUS POLYMERIZATION</th>
<th>WILL NOT OCCUR</th>
<th>MAY OCCUR</th>
<th>CONDITIONS TO AVOID</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
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</table>

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
EVACUATE AREA, VENTILATE, AVOID BREATHING VAPORS, DIRE, CONTAIN SPILL, CLEAN AREA (USE PROTECTIVE EQUIP./SEC. VII) BY MOPPING OR WITH ABSORBANT MATERIAL, TRANSFER TO CLOSED CONTAINERS FOR DISPOSAL, AVOID CONTAMINATION OF GROUND/SURFACE WATERS, DO NOT FLUSH TO SEWER, IF SPILL INDOUTDOORS, TURN OFF HEAT/AIR CONDITION SYSTEMS TO PREVENT VAPORS FROM CONTAMINATING BUILDING.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL POLLUTION REGULATIONS.

NEUTRALIZING AGENT:
NONE

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION:
DO NOT USE IN CLOSED OR CONFINED SPACE, OPEN DOORS AND/OR WINDOWS, USE VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW 25 PPM (TWA-OSHA).

RESPIRATORY PROTECTION:
WHERE VAPOR CONCENTRATION EXCEEDS OR IS LIKELY TO EXCEED 25PPM, A NIOSH/MSHA APPROVED ORGANIC VAPOR TYPE HALF-MASK RESPIRATOR IS ACCEPTABLE. A NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR LINE RESPIRATOR WITH FULL FACE PIECE IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE 25PPM AND FOR SPILLS AND/OR EMERGENCIES. FOLLOW ANY APPLICABLE RESPIRATOR-USE STANDARD OR REGULATIONS.

SPECIAL PROTECTION:
SOLVENT-RESISTANT GLOVES (NEOPRENE-LATEX)

EYE PROTECTION:
SAFETY GLASSES, CHEMICAL GOGGLES OR FACE SHIELDS WHERE SPLASHING IS POSSIBLE, DO NOT WEAR CONTACTS

OTHER PROTECTION:
SHOULDN'T BE USED WHEN NECESSARY TO PREVENT SKIN CONTACT

SECTION X - STORAGE AND HANDLING INFORMATION

<table>
<thead>
<tr>
<th>STORAGE TEMPERATURE</th>
<th>INDOOR</th>
<th>HEATED</th>
<th>REFRIGERATED</th>
<th>OUTDOOR</th>
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<tbody>
<tr>
<td>MAX: 100 F. MIN: 0 F. X</td>
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PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:
STORE IN LABLED, TIGHTLY SEALED CONTAINERS IN A COOL, DRY, WELL-VENTILATED AREA.

OTHER PRECAUTIONS:
VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS, KEEP OUT REACH OF CHILDREN, READ ENTIRE LABEL BEFORE USING, USE ONLY WITH ADEQUATE VENTILATION.
SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME: PERCHLOROETHYLENE
C.A.S. NUMBER: 127-18-4
UPPER % LIMIT: 67

These ingredients listed above are subject to the reporting requirements of 319 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. If the use exemption appears under Upper % Limit, end users are exempt from notification because the product is used and labeled for facility grounds maintenance (such as fertilizers and herbicides), or the product is used and labeled for maintaining motor vehicles.

CALIFORNIA PROPOSITION 65
WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
Perchloroethylene (1).

SECTION XII - TRANSPORTATION *(FOR FUTURE USE)*

LABELS
UNIT CONTAINER
DOT SPS CONTAINER
AEROSOL PROPELLANT(S)

LIMITED QTY
NET EXPLOSIVE WT.

MATERIAL SAFETY DATA SHEET: M/M FIX ALL

SECTION XIII - REFERENCES
2. OSHA, PEL. 2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 7TH ED., N. IRVING SAX AND RICHARD J. LEWIS, SR.
4. FIFTH ANNUAL REPORT ON CARCINOGENS, 1989. NATIONAL TOXICOLOGY PROGRAM.
5. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1985-1988 EDITION.

SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN REGISTER/VOL. 84 NO. 12, 1-19-89

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