PRODUCT NAME: 4575L205 IVI KC EPOXY - B
PRODUCT CODE: 4575L205

HMIS CODES: HF R P
2 3 0 H

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: A.P. NONWEILER COMPANY
ADDRESS: 3321 COUNTY ROAD A
          P.O. BOX 1007
          OSHKOSH, WI 54903-1007

INFORMATION PHONE: (920) 231-0850  NAME OF PREPARER: GARY KANDELL

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>VAPOR PRESSURE</th>
<th>TEMPERATURE</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-METHOXY-2-PROANOL</td>
<td>300107-98-2</td>
<td>12.5</td>
<td>25C</td>
</tr>
<tr>
<td>2-BUTOXYETHANOL ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>111-76-2</td>
<td>.6</td>
<td>20C</td>
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<tr>
<td>25 PPM-SKIN</td>
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<tr>
<td>DIPROPYLENE GLYCOL METHYL ETHER</td>
<td>34590-99-8</td>
<td>.4</td>
<td>77F</td>
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<tr>
<td>100 PPM TWA</td>
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<tr>
<td>FINE OIL 45% ALCOHOLS</td>
<td>8002-09-3</td>
<td>1.0</td>
<td>68F</td>
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<tr>
<td>NO EXPOSURE LIMITS ESTABLISHED</td>
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</tr>
<tr>
<td>X TOLUENE</td>
<td>108-88-3</td>
<td>47</td>
<td>68F</td>
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<tr>
<td>A TWA OF 100 PPM AND STEL OF 150 PPM</td>
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<tr>
<td>PROANOL</td>
<td>67-63-0</td>
<td>96</td>
<td>100F</td>
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</tbody>
</table>

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 180F - 408-437F
VAPOR DENSITY: HEAVIER THAN AIR
SPECIFIC GRAVITY (H2O=1): .95
EVAPORATION RATE: SLOWER THAN BUTYL ACETATE

COATING V.O.C.: 3.96 lb/gl
MATERIAL V.O.C.: 3.96 lb/gl
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 45F
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .9  UPPER: 12.7
TINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES
THE USE OF SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR FIRE FIGHTERS. WATER SPRAY MAY BE USED FOR COOLING.
CONTAINERS TO PREVENT POSSIBLE PRESSURE BUILD-UP AND AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. AVOID SPRAYING BURNING LIQUID WITH WATER USED FOR COOLING.

UNUSUAL FIRE AND EXPLOSION HAZARDS
VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

SECTION V - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID
ELEVATED TEMPERATURES SOURCES OF IGNITION

INCOMPATIBILITY (MATERIALS TO AVOID)
STRONG ACIDS AND STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC ACIDS, CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
HIGH VAPOR/AEROSOL CONCENTRATIONS (GREATER THAN APPROXIMATELY 1000 PPM) ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN CONTACT AND ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
**WARNING** AVOID ALL CONTACT WITH SKIN. PENETRATES SKIN READILY. ANY CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS WHICH CAN CAUSE DAMAGE TO THE KIDNEYS, LIVER, BLOOD AND/OR BONE MARROW.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
MODERATELY TOXIC. MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

ALTH HAZARDS
DYES WITH RATS HAVE SHOWN A COMPONENT OF THIS MATERIAL TO HAVE MUTAGENIC EFFECTS. REPORTS HAVE ASSOCIATED REPEATED PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.
ACINOCENICITY: NTP CARCINOGEN: NO  IARC MONOGRAPHS: NO  OSHA REGULATED: NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
OVEREXPOSURE TO VAPOR, DUST OR MIST MAY AGGRAVATE EXISTING RESPIRATORY CONDITIONS, SUCH AS ASTHMA, BRONCHITIS, AND INFLAMMATORY OR FIBROTIC RESPIRATORY DISEASE.

EMERGENCY AND FIRST AID PROCEDURES
EYE CONTACT: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

SKIN CONTACT: WASH CONTAMINATED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INHALATION OF VAPORS OR SPRAY MIST: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

INGESTION: GET MEDICAL HELP IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH VERMICULITE OR OTHER INERT MATERIAL. PLACE IN A CONTAINER FOR CHEMICAL WASTE. IF LARGE SPILL, FLUSH SPILL AREA WITH WATER SPRAY AND PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
DO NOT STORE ABOVE 120 DEG.F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS
AVOID CONTACT WITH SKIN OR EYES. WASH THOROUGHLY AFTER HANDLING. HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE "FACTOR AS "AUTOIGNITION" OR "IGNITION" TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES.
SECTION VIII - CONTROL MEASURES

ESPIRATORY PROTECTION
DO NOT BREATHE VAPORS. WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS, WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) UNTIL VAPORS ARE EXHAUSTED. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. OBSERVE OSHA STANDARD 29CFR 1910.134.

VENTILATION
PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARD 1910.94.

PROTECTIVE GLOVES
USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT.

EYE PROTECTION
DO NOT GET IN EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES, FACE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

WORK/HYGIENIC PRACTICES
WASH AT THE END OF EACH WORKSHIFT AND BEFORE EATING, SMOKING, OR USING THE TOILET. USE APPROPRIATE HAND AND SKIN LOTIONS TO PROTECT THE SKIN.

SECTION IX - DISCLAIMER

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