EPIKURE(TM) 3277 CURING AGENT (FORMERLY EPI-CURE(R) 871)

SECTION I NAME

PRODUCT: EPIKURE(TM) 3277 CURING AGENT (FORMERLY EPI-CURE(R) 871)
CHEM NAME: MIXTURE
CHEM FAMILY: ALIPHATIC AMINE
CODE: K9072

HEALTH HAZARD: 3  FIRE HAZARD: 1  REACTIVITY: 0

SECTION II-A INGREDIENTS

<table>
<thead>
<tr>
<th>NO.</th>
<th>COMPOSITION &amp; PERCENT</th>
<th>CAS NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>EPIKURE 3277 CURING AGENT MIXTURE</td>
<td>100</td>
</tr>
<tr>
<td>1</td>
<td>TRIDECYLOXYPROPYL-1,3-PROPANEDIAMINE, BRANCHED</td>
<td>68479-04-9 &gt;40</td>
</tr>
<tr>
<td>2</td>
<td>POLYOXYPROPYLENEDIAMINE</td>
<td>9046-10-0 &gt;30</td>
</tr>
<tr>
<td>3</td>
<td>BISPHENOL A</td>
<td>80-05-7 &lt;30</td>
</tr>
</tbody>
</table>

SECTION II-B ACUTE TOXICITY DATA

<table>
<thead>
<tr>
<th>NO.</th>
<th>ACUTE ORAL LD50</th>
<th>ACUTE DERMAL LD50</th>
<th>ACUTE INHALATION LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>NO DATA AVAILABLE</td>
<td>NO DATA AVAILABLE</td>
<td>NO DATA AVAILABLE</td>
</tr>
<tr>
<td>1</td>
<td>NO DATA AVAILABLE</td>
<td>NO DATA AVAILABLE</td>
<td>NO DATA AVAILABLE</td>
</tr>
<tr>
<td>2</td>
<td>1.66 G/KG (RAT)</td>
<td>0.760 G/KG (RABBIT)</td>
<td>NO DATA AVAILABLE</td>
</tr>
<tr>
<td>3</td>
<td>4.2 G/KG (RAT)</td>
<td>3.0 G/KG (RABBIT)</td>
<td>NO DATA AVAILABLE</td>
</tr>
</tbody>
</table>

SECTION III HEALTH INFORMATION


EYE CONTACT:
CORROSIVE TO THE EYES AND MAY CAUSE SEVERE DAMAGE INCLUDING BLINDNESS. VAPORS MAY BE IRRITATING.

SKIN CONTACT:
CORROSIVE TO THE SKIN. MAY CAUSE SKIN SENSITIZATION. MAY BE TOXIC IF ABSORBED THROUGH SKIN.

INHALATION:
VAPORS/MISTS MAY BE CORROSIVE TO UPPER RESPIRATORY TRACT. REPEATED OR PROLONGED EXPOSURE CAN RESULT IN LUNG DAMAGE.

INGESTION:
NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE, HOWEVER, CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

SIGNS AND SYMPTOMS:
IRRITATION AS NOTED ABOVE. LUNG DAMAGE (SCARRING, BRONCHITIS, EMPHYSEMA) MAY BE EVIDENCED BY SHORTNESS OF BREATH, ESPECIALLY ON EXERTION, AND MAY BE ACCOMPANIED BY CHRONIC COUGH. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

AGGRAVATED MEDICAL CONDITIONS:
PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS:
SEE SECTION VI FOR SUPPLEMENTAL HEALTH INFORMATION.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>COMP NO.</th>
<th>OSHA PEL/TWA</th>
<th>PEL/CEILING</th>
<th>ACGIH TLV/TWA</th>
<th>TLV/STEL</th>
<th>OTHER</th>
</tr>
</thead>
</table>

NONE ESTABLISHED.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. RINSE CONTINUOUSLY WITH WATER WHILE ON WAY TO GET MEDICAL ATTENTION.

SKIN CONTACT:
IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF READILY AVAILABLE, OR FOLLOW BY THOROUGHLY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED. GET MEDICAL ATTENTION.

INHALATION:
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION:
DO NOT INDUCE VOMITING. GIVE ONE GLASS OF WATER UNLESS VICTIM IS DROWSY,
CONVULSING, OR UNCONSCIOUS. SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN:
NONE IDENTIFIED

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

COMPONENT 1 AND 2: IT HAS BEEN GENERALLY OBSERVED IN ANIMAL STUDIES THAT ALIPHATIC AMINES CAN CAUSE CHANGES IN THE LUNGS, LIVER, KIDNEYS AND HEART.

COMPONENT 3: IN A REPRODUCTIVE STUDY ON RATS, BISPHENOL A (BPA) CAUSED PATERNAL TOXICITY, REPRODUCTIVE, KIDNEY AND LIVER EFFECTS AND FETOTOXICITY AT DOSES OF 0.5% AND 1.0% OF THE DIET. NO SIGNIFICANT TREATMENT RELATED EFFECTS WERE SEEN AT 0.25% OF THE DIET. IN OTHER REPRODUCTIVE STUDIES, BPA PRODUCED FETOTOXICITY IN MICE AT MATERNALLY TOXIC DOSES, BUT NOT IN RATS.

A DUST INHALATION STUDY IN RATS AT DOSES UP TO 150 MG/M3 BPA FOR 6H/D FOR 9 EXPOSURES DID NOT RESULT IN ANY SIGNIFICANT TREATMENT RELATED SYSTEMIC TOXICITY.

BISPHENOL A AT HIGH ORAL DOSES AND BY INTRAPERITONEAL INJECTION PRODUCED SLIGHT ESTROGENIC EFFECTS (OVARIAN ENLARGEMENT) IN LABORATORY ANIMALS. THE SIGNIFICANCE OF THIS INFORMATION IN HUMANS IS UNKNOWN.

SECTION VII PHYSICAL DATA

BOILING POINT (DEG F): SPECIFIC GRAVITY (H2O = 1): VAPOR PRESSURE (MM HG):
NOT AVAILABLE 0.96 <1.0 @ 20 DEG. C

MELTING POINT (DEG F): SOLUBILITY IN WATER: VAPOR DENSITY (AIR = 1):
NOT AVAILABLE PARTIAL >1

EVAPORATION RATE (NORMAL BUTYL ACETATE = 1): <1

APPEARANCE AND ODOR:
CLEAR LIGHT COLORED VISCIOUS LIQUID WITH AMINE.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: >200 DEG. F (>93 C) (SETAFLASH)

FLAMMABLE LIMITS/PERCENT VOLUME IN AIR: LOWER: NA UPPER: NA

EXTINGUISHING MEDIA:
USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT MAY FLOAT. WATER OR FOG MAY CAUSE FROTHING WHICH CAN BE VIOLENT, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT OR BURNING LIQUID.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:
MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKERCOATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
DELAYED LUNG DAMAGE (PULMONARY EDEMA) CAN BE EXPERIENCED AFTER EXPOSURE TO COMBUSTION PRODUCTS, SOMETIMES HOURS AFTER THE EXPOSURE. NITROGEN OXIDES AND NITROGEN CONTAINING ORGANIC COMPOUNDS MAY BE RELEASED UPON COMBUSTION. SEE SECTION XII.

SECTION IX REACTIVITY

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:
AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
NITROGEN OXIDES, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:
DO NOT BREATHE VAPORS/MISTS. USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134, USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS. AVOID BREATHING VAPORS WHICH MAY BE PRODUCED UNDER SOME CONDITIONS SUCH AS HEATING OR APPLICATIONS OF UNCURED MATERIAL IN LARGE SURFACE AREAS (E.G., FLOORING AND PAINTING). AVOID BREATHING AEROSOLS AND MISTS WHICH MAY BE FORMED BY VARIOUS METHODS OF APPLICATION.

PROTECTIVE CLOTHING
DO NOT GET IN EYES. WEAR CHEMICAL GOGGLES IF THERE IS POTENTIAL CONTACT WITH EYES. DO NOT GET ON SKIN, ON CLOTHING. WEAR CHEMICAL-RESISTANT PROTECTIVE CLOTHING SUCH AS GLOVES, OUTER CLOTHING OR APRON, OVERSHOES AND A FACE-SHIELD SUITABLE TO POTENTIAL EXPOSURE.

ADDITIONAL PROTECTIVE MEASURES:
USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:
DANGER. CORROSIVE. PREVENT ALL BODILY CONTACT WITH SPILLED MATERIAL. WEAR APPROPRIATE RESPIRATOR AND FULL-BODY PROTECTIVE CLOTHING. *** LARGE SPILLS *** SHUT OFF LEAK ONLY IF SAFE TO DO SO. ELIMINATE POTENTIAL FIRE HAZARDS. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE LAST TRACES OF RESIDUE; DISPOSE OF FLUSH SOLUTIONS BY ABSORPTION AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS;
SECTION XII SPECIAL PRECAUTIONS

STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM. HEATING THIS CURING AGENT IN THE PRESENCE OF AIR MAY CAUSE THERMAL AND OXIDATIVE DECOMPOSITION. WITH SOME EPOXY RESINS, IT MAY PRODUCE EXOTHERMIC REACTIONS WHICH IN LARGE MASSES CAN CAUSE RUNAWAY POLYMERIZATION AND CHARRING OF THE REACTANTS. FUMES AND VAPORS FROM THESE THERMAL AND CHEMICAL DECOMPOSITIONS VARY WIDELY IN COMPOSITION AND TOXICITY. DO NOT BREATHE FUMES. USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE. IN ACCORD WITH 29 CFR 1910.134, USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

DANGER! CORROSIVE. CAUSES BURNS TO EYE, SKIN AND RESPIRATORY TRACT. MAY BE A SKIN SENSITIZER. MAY BE TOXIC IF ABSORBED THROUGH SKIN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPORS OR MISTS. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN HAZARDOUS PRODUCT RESIDUES. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS, OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES INCLUDING SHOES CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

SECTION XIII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
CLASS 8 (CORROSIVE MATERIAL), III

DOT PROPER SHIPPING NAME:
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS TRIDECYLOXYPROPYL-1,3-PROPANEDIAMINE, POLYOXYPROPYLENEDIAMINE)

OTHER REQUIREMENTS:
UN2735, GUIDE 153

SECTION XIV OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.
PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES. IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ATTACHED ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV STATE REGULATORY INFORMATION

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

<table>
<thead>
<tr>
<th>STATE LISTED COMPONENT</th>
<th>CAS NO.</th>
<th>PERCENT</th>
<th>STATE CODE</th>
</tr>
</thead>
</table>

SEAL TIGHTLY FOR PROPER DISPOSAL.
NOTE: MSDS GENERAL ASSISTANCE NUMBER HAS CHANGED.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, RESOLUTION PERFORMANCE PRODUCTS MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. RESOLUTION PERFORMANCE PRODUCTS ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION, PLEASE CALL RESOLUTION PERFORMANCE PRODUCTS'S GENERAL MSDS ASSISTANCE LINE (832-486-6700) TO ENSURE THAT YOU ARE ADDED TO RESOLUTION PERFORMANCE PRODUCT'S REGULAR MSDS DISTRIBUTION SYSTEM.

BE SAFE. READ OUR PRODUCT SAFETY INFORMATION...AND PASS IT ON. (PRODUCT LIABILITY LAW REQUIRES IT)

ENVIRONMENTAL DATA SHEET

EDS: 1509-02 12/01/03

EPIKURE(TM) 3277 CURING AGENT (FORMERLY EPI-CURE(R) 871)

TELEPHONE NUMBER:
24 HOUR EMERGENCY ASSISTANCE GENERAL MSDS ASSISTANCE
CHEMTREC - Domestic: (800) 424-9300 RESOLUTION: 832-486-6700
CHEMTREC - International: (703) 527-3887

COMPANY NAME AND ADDRESS
RESOLUTION PERFORMANCE PRODUCTS
PRODUCT SAFETY & COMPLIANCE
P.O. BOX 4500
HOUSTON, TX 77210 USA

PRODUCT CODE: K9072
41046
SECTION I                          PRODUCT COMPOSITION

<table>
<thead>
<tr>
<th>NO.</th>
<th>COMPOSITION</th>
<th>CAS</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>EPIKURE 3277 CURING AGENT MIXTURE</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>1</td>
<td>TRIDECYLOXYPROPYL-1,3-PROPANEDIAMINE, BR</td>
<td>68479-04-9</td>
<td>&gt;40</td>
</tr>
<tr>
<td>2</td>
<td>POLYOXYPROPYLENEDIAMINE</td>
<td>9046-10-0</td>
<td>&gt;30</td>
</tr>
<tr>
<td>3</td>
<td>BISPHENOL A</td>
<td>80-05-7</td>
<td>&lt;30</td>
</tr>
</tbody>
</table>

SECTION II                         SARA TITLE III INFORMATION

<table>
<thead>
<tr>
<th>NO.</th>
<th>EHS RQ</th>
<th>EHS TPQ</th>
<th>SEC-313</th>
<th>313 CATEGORY</th>
<th>311/312 CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(*1)</td>
<td>(*2)</td>
</tr>
<tr>
<td>P</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

*1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
*2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
*3 = TOXIC CHEMICAL, SEC 313
*4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.65 C), MUST BE USED ON
TOXIC RELEASE INVENTORY FORM
*5 = CATEGORY (FOR AGGREGATE REPORTING REQUIREMENTS UNDER SARA 311, 312)
HEALTH: H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
H-2 = DELAYED (CHRONIC) HEALTH HAZARD
PHYSICAL: P-3 = FIRE HAZARD
P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
P-5 = REACTIVE HAZARD

SECTION III                        ENVIRONMENTAL RELEASE INFORMATION

KEEP OUT OF SURFACE WATERS, SEWERS, AND WATERWAYS ENTERING OR LEADING TO SURFACE
WATERS. NOTIFY AUTHORITIES IF ANY EXPOSURE TO THE GENERAL PUBLIC OR ENVIRONMENT
OCCURS OR IS LIKELY TO OCCUR.EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE,
COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR,
LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL
RESPONSE CENTER, 800-424-8802.

SECTION IV                        RCRA INFORMATION

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.