View NSN Online: https://aerobasegroup.co.il/nsn/3040-00-159-5056

Product ID: EPI-CURE U CURING AGENT, 43638 MSDS Date:12/15/1994 FSC:8010 NIIN:00-159-5056 MSDS Number: CFQVZ === Responsible Party === Company Name: SHELL OIL CO Box:4320 **City:HOUSTON** State:TX ZIP:77210 Country:US Info Phone Num:713-241-2252 Emergency Phone Num:713-473-9461;800-424-9300(CHEMTREC) CAGE:SHELO === Contractor Identification === Company Name: SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. Address:1 SHELL PLAZA Box:2463 City:HOUSTON State:TX ZIP:77001 Country:US Phone:713-473-9461 CAGE:86961 Company Name: SHELL OIL CO Box:4320 City:HOUSTON State:TX ZIP:77210-5000 Country:US Phone:713-473-9461/713-241-2252 CAGE:SHELO

======= Composition/Information on Ingredients ===============

Ingred Name:BISPHENOL A, EPICHLOROHYDRIN, DIETHYLENETRIAMINE ADDUCT; (EPOXY RESIN/POLYETH YLENEAMINE ADDUCT) CAS:68610-56-0 Fraction by Wt: 73% OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:DIETHYLENETRIAMINE (DETA). LD50:(ORAL,RAT) 2.33 G/KG. CAS:111-40-0 RTECS #:IE1225000 Fraction by Wt: 25% OSHA PEL:1 PPM ACGIH TLV:1 PPM, S

Ingred Name:PHENOL (SARA 302/313) (CERCLA). LD50:(ORAL,RAT) 530 MG/KG. CAS:108-95-2 RTECS #:SJ3327000 Fraction by Wt: 2% OSHA PEL:5 PPM, S ACGIH TLV:5 PPM, S EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:MATLS TO AVOID:PRIMARY & SECONDARY ALIPHATIC AMINES

REACTIONS W/SOME CURING AGENTS MAY PRODUCE CONSIDERABLE HEAT. RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:CHRONIC COUGH. SKIN SENSIT (ALLERGY):RASHES, ESP HIVES. RESP TRACT SENSIT (E.G. ALLERGY, ASTHMA):(ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5:WHEEZING W/SHORTNESS OF BREATH & COUGH. KIDNEY DMG:CHANGES IN URINE OUTPUT, URINE APPEAR/EDEMA (SWELL FROM (ING 7) RTECS #:99999992Z

Ingred Name:ING 6:FLUID RETENTION). LIVER DMG:LOSS OF APPETITE, JAUN (YELLOWISH SKIN COLOR) & SOMETIMES PAIN IN UPPER ABDOM (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:ON RIGHT SIDE. EARLY TO MOD CNS DEPRESS:GIDD, HDCH, DIZZ & NAUS; IN EXTREME CASES, UNCON, RESP DEPRESS & (ING 9) RTECS #:9999999ZZ

Ingred Name:ING 8:DEATH MAY OCCUR. PHENOL IS TOX & MAY BE FATAL BY ALL RTES OF EXPOS. MAY PRDCE LIVER, KIDNEY & HEART DMG, (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:CNS DEPRESS, RESP ARREST; BLADDER DMG; SKIN DEPIGMENTATION; CARDIAC ARREST. RECENT REPRO DATA PROVIDE EVID(ING Ingred Name:ING 10:FOR EMBRYO & FETOTOX EFTS IN RATS AT LEVEL OF EXPOS NOT ELICITING SIGNIFICANT SYSTEMIC TOX. SIMILAR STUDY(ING 12) RTECS #:9999999ZZ

Ingred Name:ING 11:IN MICE SHOWED EFTS W/CONCURRENT MATERNAL TOX & SUGGEST TERATOGENIC EFTS AT HIGH EXPOS. DETA HAS BEEN (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:FOUND TO INCR FREQUENCY OF SISTER CHROMATID EXCHANGE. IT WAS ALSO FOUND TO BE POS IN UNSCHEDULED DNA (ING 14) RTECS #:9999992Z

Ingred Name:

ING 13:MUTAGENICITY ASSAY. HISTOPATHOLOGICAL EFTS OF KIDNEY, LIVER, SPLEEN & ADRENALS WERE OBSERVED IN TWO RAT (ING 15) RTECS #:99999992Z

Ingred Name:ING 14:LIFETIME FEEDING STUDIES. PHENOL IS REPORTED TO BE TUMOR PROMOTER & AS AN INVITRO MUTAGEN IS EQUIVOCAL. RTECS #:9999999ZZ

Ingred Name:OTHER PREC:THESE THERMAL & CHEM DECOMPS VARY WIDELY IN COMPOSITION & TOX. DO NOT GET IN EYES, ON SKIN/CLTHG. DO (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:NOT BREATHE VAPS/MISTS. CNTNRS EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN HAZ PRODUCT RESIDUES. RTECS #:9999999ZZ

Ingred Name:HYGIENE PRACT:CLTHG BEFORE REUSE. CONTAM LEATHER ARTICLES INCL SHOES CANNOT BE DECONTAM & SHOULD BE DESTROYED. RTECS #:9999999ZZ

Ingred Name:SPILL PROC:SALVAGE VESSELS. SOAK UP RESIDUE W/ABSORB SUCH AS CLAY, SAND/OTHER SUITABLE MATL; PLACE IN NON- (ING 20) RTECS #:9999999ZZ

Ingred Name: ING 19: LEAKING CNTNRS FOR PROPER DISP. FLUSH AREA W/WATER TO REMOVE LAST TRACES OF RESIDUE; DISP OF FLUSH SOLNS (ING 21) RTECS #:99999992Z

Ingred Name:ING 20:BY ABSORP. SM SPILLS:TAKE UP W/ABSORB MATL & PLACE IN NON-LEAKING CNTNRS; SEAL TIGHTLY FOR PROPER DISP. (ING 22) RTECS #:9999999ZZ

Ingred Name:ING 21:KEEP OUT OF SURF WATER, SEWERS & WATERWAYS ENTERING/LEADING TO SURF WATERS. NOTIFY AUTHS IF ANY EXPOS TO (ING 23)

RTECS #:9999999ZZ

Ingred Name:ING 22:GEN PUBLIC/ENVIRON OCCURS/IS LIKELY TO OCCUR. PROD CONSIDERED AN OIL. SPILLS INTO/LEADING TO SURF WATER (ING 24) RTECS #:9 999999ZZ

Ingred Name:ING 23:THAT CAUSE A SHEEN MUST BE REPORTED TO THE NRC, 800-424-8802. REPORTABLE QTY(RQ):PROD:50,000 LBS; ING 3:1000 LBS. RTECS #:9999999ZZ

Ingred Name:SUPDAT:MD. INGEST:DO NOT INDUCE VOMIT. GIVE 1 GLASS OF WATER UNLESS VICTIM IS DROWSY, CONVULSING/UNCON. SEEK MD IMMED. RTECS #:9999999ZZ

LD50 LC50 Mixture:SEE INGREDIENTS.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

**Reports of Carcino** 

genicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE CONT:CORR & MAY CAUSE SEV DMG INCL BLINDNESS. VAPS MAY BE IRRIT. SKIN CONT:CORR. MAY CAUSE SENSIT. PHENOL MAY BE TOX & MAY BE FATAL IF EVEN MOD AMTS ARE ABSORBED. INHAL:VAPS/MISTS MAY BE CORR TO U PPER RESP TRACT. RPTD/PRLNG EXPOS CAN RSLT IN LUNG DMG. MAY CAUSE RESP TRACT SENSIT. PHENOL MAY BE (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:HIGHLY TOX & MAY

BE FATAL IF INHALED.

INGEST:NOT EXPECTED TO BE RELEVANT RTE OF EXPOS, HOWEVER, CORR & MAY CAUSE SEV & PERM DMG TO MOUTH, THROAT & STOM. PROD MAY BE MOD TOX. SIGNS & SYMPS:IRR IT AS NOTED. LUNG DMG(SCARRING, BRONCH,EMPHYSEMA):SHORTNESS OF BREATH, ESP ON EXERTION & MAY BE ACCOMPANIED BY (ING 5)

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN & RESP DISORDERS & IMPAIRED KIDNEY, LIVER & HEART FUNCS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOS TO THIS PR

## OD. PREEXISTING SKIN/RESP TRACT ALLERGIES MAY INCR(SUPDAT)

First Aid:EYES:IMMED FLUSH W/PLENTY OF WATER FOR @ LST 15 MINS WHILE HOLDING LIDS OPEN. RINSE CONTINUOUSLY W/WATER WHILE ON WAY TO GET MD. SKIN:IMMED REMOVE CONTAM CLTHG/SHOES. WIPE EXCESS FROM SKIN & FLUSH W/P LENTY OF WATER FOR AT LST 15 MINS. USE SOAP IF READILY AVAIL/FOLLOW BY THORO WASHING W/SOAP & WATER. DO NOT REUSE CLTHG UNTIL THORO DEC

ONTAM. GET MD. INHAL:REMOVE VICTIM TO FRESH AIR & PROVIDE(SUPDAT)

Flash Point Method:SCC

Flash Point:>200F,>93C

Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO\*2.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP . MATL WILL NOT BURN UNLESS PREHEATED. COOL FIRE EXPOS CNTNRS W/WATER. WATER/FOG MAY CAUSE FROTHING WHICH (SUPDAT) Unusual Fire/Explosion Hazard:VAPS MAY BE RELS U

NDER FIRE CNDTNS.

DELAYED LUNG DMG (PULM EDEMA) CAN BE EXPER AFTER EXPOS TO COMBUST PRODS, SOMETIMES HRS AFTER EXPOS. NITROGEN OXIDES (SUPDAT)

Spill Release Procedures:DANGER. TOX BY ALL RTES. CORR. PVNT ALL BODILY CONT W/SPILLED MATL. WEAR APPROP NIOSH APPRVD RESP & FULL-BODY PROT CLTHG. LG SPILLS:SHUT OFF LEAK ONLY IF SAFE TO DO SO. ELIM POTNTL FIRE HAZS. DIKE & C NTN. REMOVE W/VACUUM TRUCK/PUMP TO STOR/ (ING

19)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN COOL, DRY PLACE W/ADEQ VENT.
KEEP AWAY FROM OPEN FLAMES & HIGH TEMPS. DO NOT PRESSURIZE DRUM CNTNRS TO EMPTY THEM. DO NOT BREATHE FUMES.
Other Precautions:HEATING THIS CURING AGENT IN PRESENCE OF AIR MAY CAUSE THERMAL OXIDATIVE DECOMP. WITH SOME EPOXY RESINS, IT MAY PRDCE EXOTHERMIC RXNS WHICH IN LG MASSES

CAN CAUSE RUNAWAY POLYMERIZATION & CHARRING OF REACTANTS. FUMES & VAPS FROM (ING 16)

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS USE A NIOSH APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD W/29 CFR 1910.134 USE EITHER A NIOSH APPRVD FULL-FACE, ATM-SUPPLYING RESP OR AIR-PURIFYING RESP FOR ORGANIC VAPS.

Ventilation: USE VENTILATION AS REQUIRED TO CONTROL VAPOR

CONCENTRATIONS.

Protective Gloves: CHEMICAL-RESISTANT GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS & (SUPDAT)

Other Protective Equipment: ANSI APPRVD EYE WASH FOUNTAIN & DELUGE

SHOWER . WEAR CHEM-RESIST PROT CLTHG SUCH AS OUTER CLTHG/APRON; OVERSHOES.

Work Hygienic Practices: WASH W/SOAP & WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS/USING TOILET FACILITIES. LAUNDER CONTAM(ING 18)

Supplemental Safety and Health

FIRE FIGHT PROC:CAN BE VIOLENT, ESP IF SPRAYED I

NTO CNTNRS OF

HOT/BURNING LIQ. EXPLO HAZ:& NITROGEN CNTNG ORG CMPDS MAY BE RELS UPON COMBUST. MED CNDTNS:CHANCE OF DEVEL INCR ALLERGY SYMPS FROM EXPOS T O PROD. EYE PROT:FULL LGTH FSHLD . FIRST AID PROC:OXYG IF BRTHG IS DFCLT. GIVE ARTF RESP IF NOT BRTHG. GET(ING 25)

Vapor Pres:1 Spec Gravity:1.1 (H\*2O=1) Solubility in Water:MISCIBLE Appearance and Odor:LIGHT YELLOW LIQUID; AMMONIA ODOR.

====== St

Stability Indicator/Materials to Avoid:YES

CAN REACT VIGOROUSLY W/STRONG OXIDIZING AGENTS, STRONG LEWIS/MINERAL ACIDS & STRONG MINERAL & ORG BASES, ESP (ING 4) Stability Condition to Avoid:AVOID HEAT, SPARKS & FLAME. Hazardous Decomposition Products:NITROGEN OXIDES, CARBON MONOXIDE & UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Waste Disposal Methods:DI

SPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS . PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE W/LOCAL REGULATIONS.

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