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Product ID:EPON CURING AGENT U, 43636

MSDS Date:06/14/1993

FSC:8040

NIIN:00-181-7188

MSDS Number: BDGJN
=== Responsible Party ===
Company Name:SHELL OIL CO

Address:1 SHELL PLAZA

Box:4320

City:HOUSTON

State:TX ZIP:77210 Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461;800-424-93

00(CHEMTREC)

Preparer's Name: J.C. WILLETT

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, DIETHYLENE

TRIAMINE ADDUCT; (EPOXY RESIN/AMINE 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 #:SJ3325000 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:SUPDAT: & MAY
BE FATAL IF SWALLOWED. BASED ON ING 3, MAY
PRDCE LIVER, KIDNEY & HEART DMG, CNS DEPRESS; MAY PRDCE (ING 5)
RTECS #:9999992Z

Ingred Name:ING 4: RESP ARREST. BASED ON ING 2, MAY PRDCE SEV BURNS OF MOUTH & THROAT & GI IRRIT. SIGNS & SYMPS: SKIN SENSIT (ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5: (ALLERGY) MAY BE EVID BY RASH, ESP HIVES, LUNG SENSIT (E.G. ALLERGY, ASTHMA) MAY BE EVID BY WHEEZ WITH (ING 7) RTECS #:9999999ZZ

Ingred Name: ING 6: SHORTNESS OF BRTH & COUGH. KIDNEY DMG MAY BE EVID BY

CHGS IN URINE OUTPUT & APPEAR OR EDEMA (SWELL FROM (ING 8) RTECS #:9999992Z

Ingred Name:ING 7: FLUID RETENTION). LIVER DMG MAY BE EVID BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) & SOMETIMES (ING 9) RTECS #:9999999ZZ

Ingred Name:ING 8:UPPER ABDOM PAIN ON RIGHT SIDE. EARLY TO MOD CNS DEPRESS MAY BE EVID BY GIDD, HDCH, DIZZ & NAUS:IN EXTREME(ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:CASES, UNCON, RESP DEPRESS & DEATH MAY OCCUR. OTHER EFTS:ING 3 IS TOX & MA

Y BE FATAL BY ALL ROUTES OF (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:EXPOS. BLADDER DMG & CARD ARREST MAY OCCUR BY DERMAL, INHAL, INGEST EXPOS. SKIN DEPIGMENTATION MAY OCCUR (ING 12) RTECS #:9999992Z

Ingred Name:ING 11:BY CNTCT. REPRO DATA PROVIDES EVID FOR EMBRYO & FETOTOX EFTS IN RATS AT LEVEL OF EXPOS NOT ELICITING (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:SIGNIFICANT SYSTEMIC TOX. SIMILAR MICE STUDY SHOWED EFTS W/CONCURRENT MATERNAL TOX & SUGGEST TERATOGENIC (ING 14)

RTECS #:9999999ZZ

Ingred Name:ING 13:EFTS AT HIGH EXPOS. ALTHOUGH SIGNIFICANCE IS UNKNOWN, ING 2 HAS BEEN FOUND TO INCR FREQUENCY OF SISTER (ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:CHROMATID EXCHANGE:ALSO FOUND POS IN UNSCHEDULED DNA SYNTHESIS MUTAGENICITY ASSAY. PHENOL IS NOT FOUND TO(ING 16) RTECS #:9999992Z

Ingred Name:ING 15:BE CO-CARCIN, BUT REPORTED TO BE A TUMOR PROMOTER. EVID THAT IT IS IN VITRO MUTAGEN IS EQUIVOCAL & INCONCLUSIVE. RTECS #:9999999ZZ

Ingred Name:MED

CNDTNS: LIVER & HEART FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. RTECS #:9999992Z

Ingred Name:FIRST AID PROC:INCL SHOES, CANNOT BE DECONTAMD & SHOULD BE DESTROYED TO PVNT REUSE. INHAL:REMOVE TO FRESH AIR & (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:PROVIDE OXYGEN IF BRTHG IS DFCLT. GIVE ARTF RESP IF NOT BRTHG. GET MED ATTN. INGEST:DO NOT INDUCE VOMIT. (ING 20) RTECS #:9999992Z

Ingred Name: ING 19: GIVE ONE GLASS OF WATER UNLESS VICTIM

IS DROWSY, CONVULSING OR UNCON. SEEK MED ATTN IMMED. RTECS #:9999999ZZ

Ingred Name: SPILL PROC: VESSELS. SOAK UP RESIDUE W/ABSORB SUCH AS CLAY, SAND OR OTHER SUITABLE MATL; DISPOSE OF PROPERLY. (ING 22) RTECS #:9999999ZZ

Ingred Name: ING 21: FLUSH AREA W/WATER TO REMOVE TRACE RESIDUE. SM SPILLS:TAKE UP W/ABSORB MATL & DISPOSE OF PROPERLY.

RTECS #:9999999ZZ

Ingred Name: EYE PROT: AND FULL LENGTH FACESHIELD. RTECS #:9999999ZZ

========== Hazards Identification =========

LD50 LC50 Mixture: SEE INGREDIENTS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EYES: BASED ON ING 2, PROD MAY BE CORR TO EYES & MAY CAUSE SEV DMG INCL BLINDNESS. MAY CAUSE TEMPORARY VISION DISTURB & PERM CORNEAL INJURY. SKIN: BASED ON ING 3, PROD MAY BE TOX & MAY BE FATAL IF EVE N MOD AMTS ARE ABSORBED THRU SKIN; MAY PRDCE LIVER, KIDNEY & HEART DMG. MAY PRDCE CNS DEPRESS. MAY

(EFTS OF OVEREXP)

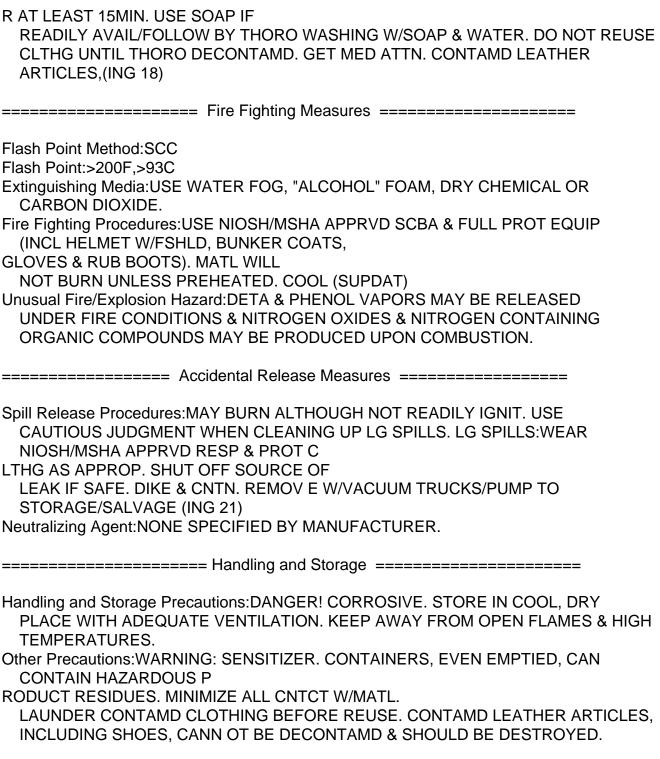
Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: HLTH HAZ: PRDCE RESP ARREST. BASED ON ING 2, PRESUMED TO BE CORR TO SKIN & SKIN SENSITIZER. INHAL: BASED ON ING 3, PROD MAY CAUSE SEV IRRIT TO NOSE, THROAT & RESP TRACT. BASED ON ING 2, MAY BE EXTREMEL Y IRRIT TO UPPER RESP TRACT & MAY PRDCESEV INFLAMM INCL LUNG; EXTREME CASES MAY BE FATAL. BASED ON ING 3, (SUPDAT)

Medical Cond Aggravated by Exposure: PREEXISTING EYE, SKIN & RESP

DISORDERS MAY BE AGGRAVATED BY EXPOS TO PROD. PREEXISTING SKIN/LUNG ALLERGIES MAY INCR CHANCE OF DEVELOPING INCR ALLERGY SYMPS FROM EXPOS TO PROD. IMPAIRED KIDNEY, (ING 17)

First Aid:EYES:IMMED FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MIN WHILE HOLDING LIDS OPEN. RINSE CONTINUOUSLY W/WATER WHILE ON WAY TO GET MED ATTN. SKIN: IMMED REMOVE CONTAMD CLTHG/SHOES. WIPE EXCESS FROM SKIN & FLUSH W/PLENTY OF WATER FO



Other Precautions: WARNING: SENSITIZER. CONTAINERS, EVEN EMPTIED, CAN

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

Respiratory Protection: AVOID BRTHG VAPOR/MISTS. IF EXPOS MAY OR DOES EXCEED OCCUP EXPOS LIMITS USE NIOSH/MSHA APPROVED RESP TO PREVENT OVEREXP. IN ACCORD W/29 CFR 1910.134, USE EITHER FULL-FACE, ATMOSPHERE-SUPPLYING RESP OR AIR-PURIFYING R

ESP FOR ORGANIC VAPORS. Ventilation: USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. Protective Gloves: CHEMICAL RESISTANT GLOVES. Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS (ING 23) Other Protective Equipment: EYE WASH FOUNTAINS & SAFETY SHOWERS AVAIL FOR EMER USE. AVOID CONTACT W/SKIN & CLTHG. WEAR CHEM-RESISTANT PROT CLTHG. Work Hygienic Practices: WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS OR USING TOILET FACILITIES. Supplement al Safety and Health FIRE FIGHT PROC: FIRE EXPOSED CNTNRS W/WATER. EFTS OF OVEREXP:PRESUMED TO BE HIGHLY TOX & MAY BE FATAL. MAY PRDCE LIVER, KIDNEY & HEART DMG; MAY PRDCE CNS DEPRESS; MAY PRDCE RESP ARREST. BASED ON ING 2, PROD MAY PRDCE TEMP BLURRING OF VISION; MAY BE LUNG SENSITIZER. INGEST: BASED ON ING 3, PROD MAY BE MOD TOX (ING 4) ======== Physical/Chemical Properties ============ HCC:N1 Vapor Pres:1 Spec Gravity:1.1 (H*2O=1) Solubility in Water:MISCIB LE Appearance and Odor:LIGHT YELLOW LIQUID; AMMONIACAL ODOR. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES

CAN REACT WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS OR MINERAL ACIDS.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NITROGEN OXIDES, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

	Disposal Considerations	=
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Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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