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SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- EPON CURING AGENT (R) U -- 8010-01-060-7176

============= Product Identification ==================

Product ID:EPON CURING AGENT (R) U

MSDS Date:11/03/1988

FSC:8010

NIIN:01-060-7176

Kit Part:Y

MSDS Number: BQDNX === Responsible Party ===

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

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

Preparer's Name: J C WILLETT

CAGE:86961

=== 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

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

Ingred Name: EPOXY RESIN/AMINE ADDUCT

CAS:68610-36-0 Fraction by Wt: 73%

Other REC Limits: NONE SPECIFIED

ACGIH TLV:STEL 20 MG/M3

ngred Name:DIETHYLENETRIAMINE (DETA)

CAS:111-40-0

RTECS #:IE1225000 Fraction by Wt: 25%

Other REC Limits: NONE SPECIFIED

OSHA PEL:SKIN 5 PPM

ACGIH TLV:SKN 1PPM/STEL60MG/M3

Ingred Name:PHENOL (SARA III)

CAS:108-95-2

RTECS #:SJ3327000 Fraction by Wt: 2%

Other REC Limits:NONE SPECIFIED ACGIH TLV:5PPM;SKIN;STEL100PPM

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ACUTE ORAL LD50 (RAT):2.33 G/KG;530MG/M3

Routes of En

try: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:ACUTE; CORROSIVE TO EYE, SKIN, RESPIRATORY TRACT. HIGHLY TOXIC (CARDIAC ARREST/FATAL) BY DERMAL (ABSORPTION), INHALATION OR INGESTION. BLINDNESS, PERMANENT CORNEAL INJURY, VISION DISTURBANCES. SEVERE BURNS OF MOUTH, THROAT & GI IRRIT. BLADDER DAMAGE.

Explanation of Carcinogenicity:PHENOL HAS NOT BEEN FOUND TO BE A CO-CARCINOGEN, BUT IS REPORTED TO BE A TUMOR PROMOTER.

Effects of Overexposure:CHRONI

C; SKIN SENSITIZATION (ALLERGY), LUNG SENSITIZATION (ASTHMA, ALLERGY), KIDNEY DAMAGE, LIVER DAMAGE, CENTRAL NERVOUS SYSTEM DEPRESSION.

Medical Cond Aggravated by Exposure:PREEXISITING EYE, SKIN, RESP DISORDERS MAY BE AGGRAVATED. PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE CHANCE OF DEVELOPING ALLERGY SYMPTOMS. IMPAIRED KIDNEY, LIVER AND HEART FUNCTIONS AGGRAVATED.

First Aid:EYE:IMMED FLUSH W/WATER 15 M

EXCESS, FLUSH W/WATER 15 MIN. WASH W/SOAP & WATER. GET MED AID. INHAL:REMOVE TO FRESH AIR, GIVE OXYGEN IF DIFFICLT BREATHING, ARTIF RESP IF NO BREATH. GET MED AID. INGEST:DONT INDUCE VOMIT. GIVE 1 GLASS WATER UNLESS VICTIM DROWSY, CONVULSING OR UNCONSCIOUSNESS. GET MED AID IMMED.
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Flash Point Method:SCC Flash Po int:>200F,>93C
Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMIAL OR CO2. Fire Fighting Procedures:WONT BURN UNLESS PREHEATED. DONT ENTER CONFINED FIRE SPACE W/OUT FULL BUNKER GEAR, INCLUDING POSITIVE PRESSURE NIOSH SCBA. COOL FIRE EXPOSED CNTNRS W/WATER. Unusual Fire/Explosion Hazard:DETA AND PHENOL VAPORS MAY BE RELEASED UNDER FIRE CONDITIONS AND NITROGEN OXIDES AND NITROGEN CONTAINING ORGANIC COMPOUNDS MAY BE PRODUCED UPON COMBUSTION.
========= Accidenta I Release Measures ====================================
Spill Release Procedures:MAY BURN(NOT READILY IGNIT).CAUTION WHEN CLEANING LRG SPILL.LRG:WEAR RSPRTR & PROTECTIVE CLOTH.STOP LEAK AT SOURCE IF SAFE.DIKE,CONTAIN.USE VACUUM TRUCKS/PUMP TO STORAGE/SALVAGE TANK.SOAK UP REST W/AB OSRB.FLUSH AREA W/WATER.SMALL:TAKE UP W/ABSORBENT.
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Handling and Storage Precautions:DANGER! CORROSIVE! STORE IN COOL, DRY PLACE WITH ADEQUATE VE NTILATION. KEEP AWAY FROM OPEN FLAMES & HIGH TEMPERATURES.
Other Precautions:WARNING: SENSITIZER, CONTAINERS, EVEN EMPTY, CAN

GETTING MED AID. SKIN: IMMED REMOVE CONTAM CLOTH/SHOES. WIPE

IN, HOLD LIDS OPEN. RINSE WHILE

Other Precautions:WARNING: SENSITIZER. CONTAINERS, EVEN EMPTY, CAN CONTAIN HAZARDOUS PRODUCT RESIDUES. MINIMIZE CONTACT WITH MATERIAL. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING, APPLY COSMETICS, OR USING TOILET FACILITIES.

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

Respiratory Protection: AVOID BREATHING VAPOR/MISTS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS,

USE NIOSH RESPIRATOR. IN

ACCORD W/29 CFR 1910.134 USE EITHER FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR PURIFYING RESPIRATOR TO ORGANIC VAPOR.

Ventilation: USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES.

Eye Protection: WEAR CHEMICAL GOGGLES IF CONTACT LIKELY.

Other Protective Equipment:AVOID CONTACT W/SKIN & CLOTHING. WEAR CHEMICAL RESISTANT PROTECTIVE CLOTHING. EYEWASH FOUNTAINS & SAFETY SHOWERS.

Work Hygi

enic Practices:LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES CANNOT BE DECONTAM, DESTROY.

Supplemental Safety and Health

=======================================	Physical/Chemical Properties	
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HCC:B2

Vapor Pres:1

Spec Gravity:1.1 (WATER=1) Solubility in Water:MISCIBLE

Appearance and Odor:LIGHT YELLOW LIQUID, AMMONIACAL ODOR.

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

CAN REAC

T WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS OR MINERAL ACIDS.

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:KEEP OUT OF SURFACE WATER, SEWER & WATERWAYS. NOTIFY AUTHORITIES IF ANY EXPOSURE TO GENERAL PUBLIC/ENVIRONMENT LIKELY/OCCURS. EPA-CWA:PRODUCT OIL (SEC 311). REPORT SPILLS THAT CAUSE SHEEN

(800-424-880 2). RQ: 50 LBS. COMPLY W/LOCAL, FED, STATE REGS.

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