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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 CAGE:86961

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

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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

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,

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

LIVER AND HEART FUNCTIONS AGGRAVATED.

IN,HOLD LIDS OPEN. RINSE WHILE GETTING MED AID. SKIN: IMMED REMOVE CONTAM CLOTH/SHOES. WIPE 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.

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.

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.

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 CONTAIN HAZARDOUS PRODUCT RESIDUES. MINIMIZE CONTACT WITH MATERIAL. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING, APPLY COSMETICS, OR USING TOILET FACILITIES.

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 HCC:B2 Vapor Pres:1 Spec Gravity:1.1 (WATER=1) Solubility in Water:MISCIBLE Appearance and Odor: LIGHT YELLOW LIQUID, AMMONIACAL ODOR. 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. 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. Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this

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