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SHELL OIL COMPANY, PRODUCT SAFETY & COMPLIANCE -- EPON (R) RESIN 826

8030-00-144-9658

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

Product ID:EPON (R) RESIN 826

MSDS Date:09/01/1993

FSC:8030

NIIN:00-144-9658

MSDS Number: BLLTF

=== Responsible Party ===

Company Name: SHELL OIL COMPANY, PRODUCT SAFETY & COMPLIANCE

Address:1 SHELL PLAZA

Box:4320

City:HOUSTON

State:TX ZIP:77210 Country:US

Info Phone Num:713-2

41-4819

Emergency Phone Num:713-473-9461/800-424-9300(CHEMTREC)

Preparer's Name: J. C. WILLETT

CAGE:SHELL

=== 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 COMPANY PRODUCT SAFETY AND COMPLIANCE

Address:P.O. BOX 4320

Box:4320 City:HOUSTON

State:TX ZIP:77210

Phone:713-241-2252 /713-241-4819

CAGE:SHELL

Company Name: STEVEN INDUSTRIE

S

Address:39 AVENUE C

Box:8

City:BAYONNE

State:NJ

ZIP:07002-3417 Country:US

Phone:201-437-6501

CAGE:33150

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

Ingred Name: BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN

CAS:25068-38-6 RTECS #:KD4380000 Fraction by Wt: 100%

Other REC Limits: NONE SPECIFIED

Ingred Name: PRODUCED BY CONDENSATION OF EPICHLOROHYDRIN & BISHPENOL A.RESIDUAL LEVELS OF EPICHLOROHYDRIN ARE CONTROLLED TO 1PPM-MAX.

RTECS #:9999999ZZ Other REC Limits: NONE S **PECIFIED**

LD50 LC50 Mixture:ORAL,RAT LD50:11.4 G/KG (SEE SUPPLEMEN)

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:EYE:MODERATELY IRRIT.THERMAL BURNS FROM CONTACT W/PROD @HI TEMPS.SKIN:MODERATELY IRRIT.PRODUCT MAY CAUSE SKIN SENSITIZATION.THERMAL BURNS FROM CONTACT W/PROD @HI TEMPS.INHAL:PROD NOT LIKELY INHAL HAZ DUE TO ITS LOW VOLATILITY.INGEST:MAY HAVE LOW ORDER OF ORA

L TOXICITY.

Explanation of Carcinogenicity: PER MSDS: NOT CARCINOGENIC PER STUDIES OF SIMILAR RESIN W/DGEBPA.

Effects of Overexposure: EYE/SKIN IRRIT. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

Medical Cond Aggravated by Exposure: PRE-EXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PRE-EXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE.

	Firet Aid	Measures	
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First Aid:EYE:FLUSH W/PLENTY OF WATER WATER-15 MIN OPENING
EYELIDS.SKIN:REMOVE CONTAM CLOTH/SHOES.WIPE EXCESS.FLUSH W/ WATER
FOLLOW W/SOAP/WATER.BURN FLUSH W/COOL WATER FOR 15MINS.REMOVE CLOTH
IF STUCK TO BURN AREA DO NOT PULL OFF-CUT AROUND IT.COVER W/CLEAN
MATL.INHAL:REMOVE TO FRESH AIR.GIVE OXY IF BREATH DIFFI.INGEST:DO
NOT INDUCE VOMIT.GET MED ATTN IN ALL CASES.NOTE:EMESIS INDUCTION
UNNCECSSARY.

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Fire Fighting Measures =========

Flash Point Method:COC

Flash Point:480F,249C

Extinguishing Media: USE WATER FOG, FOAM, DRY CHEMICAL OR CO2.

Fire Fighting Procedures: WILL NOT BURN UNLESS PREHEATED.DO NOT ENTER CONFINED FIRESPACE W/O FULL BUNKER GEAR(HELMET,ECT)INCLUDING +PRESS NIOSH APPR'D SCBA.COOL FIRE EXPO CNTNRS W/WATER.

Unusual Fire/Explosion Hazard: NONE SPECIFIED BY MANUFACTURER.

======== Accidental Release Measures ============

Spill Release Proce

dures:LG SPILL:WEAR RESP/APPROP PROT CLOTH.SHUT OFF
LEAK SOURCE W/O RISK.DIKE/CONTAIN.REMOVE W/VACUUM TRUCKS/PUMP TO
STORAGE/SALVAGE VESSELS.SOAK UP W/ABSORBENT(CLAY,SAND,OTHER
MATL).FLUSH W/WATER.SM SPILL: TAKE UP W/ABSORBENT MATL.PROPERLY
DISPOSE.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

============= Handling and Storage ================

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP FROM OPEN FLAME/HI TEMPS.CNTNRS(EVEN EMPTY)CONT

AIN RESIDUES.HANDLE PER HAZ

POTENTIAL OF CURING AGENT USED. AVOID EYES CONT

Other Precautions:HEATING >300 F IN AIR MAY CAUSE SLOW OXIDATIVE DECOMPOSITION.DO NOT BREATH FUMES.AVOID PROLO/REPEAT CONTACT W/SKIN.IF RESIN HANDLE/SHIP/STORE IN BULK RECOMMENDED PUMPING TEMP 180F MAX.PREVENT THERMAL BURNS-AVOID SKIN/EYE CONTACT W/HOT LIQ.

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

Respiratory Protection: USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVEN

T OVEREXPOSURE. NOT ORDINARILY REQUIRED.PER 20CFR1910.134 USE ATM SUPPLY RESP OR AIR-PURIFYING RESP FOR ORG VAP. Ventilation: USE ADEQUATE MECHANICAL VENTILATION. Protective Gloves: CHEMICAL RESISTANT GLOVES. Eye Protection: WEAR SAFETY GLASSES OR GOGGLES. Other Protective Equipment: AS REQUIRED TO MINIMIZE CONTACT. Work Hygienic Practices: WASH W/SOAP & WATER BEF EAT/DRINK/SMOKE/COSMETICS/TOILET USAGE.WASH CONTAMIN CLOTH PRIOR TO REUSE; DISCARD LEATHER ARTICL Supplemental Safety and Healt LD50 DATA IS FOR EPON RESIN 838 A SIMILAR RESIN. ======== Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:>500F,>260C Vapor Pres:0.03 @77C Spec Gravity:1.17 Solubility in Water: NEGLIGIBLE Appearance and Odor: VERY LIGHT YELLOW, VERY VISCOUS LIQUID. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES STRG OXID AGENTS, STRG LEWIS/MNRL ACIDS & STRG MNRL/ORG BASES ESPECIALLY PRIMARY/SECONDARY A LIPHATIC AMINES, CURING AGENTS Stability Condition to Avoid:REACTS W/SOME CURING AGENTS(ALIPHATIC POLYAMINES) CAUSE RUNAWAY RX WHICH MAY CHAR/DECOMPO RESIN SYS RELEASE TOX FUMES/VAP Hazardous Decomposition Products: CO, ALDEHYDES, ACIDS & OTHER ORG SUBSTANCES MAY BE FORMED DURING COMBUST OR ELEVATED (500)TEMP DEGRADATION. Conditions to Avoid Polymerization:>500F POLYMERIZATION MAY OCCUR.SOME CURING AGENTS(ALIPHATIC POLYAMINES)CAN CAUSE EXO RX CAUSING IN LG MASSES POLYMERIZAT ======= Disposal Considerations =========== Waste Disposal Methods: DISPOSE OF IAW FED/STATE/LOC REGS. UNDER EPA CERCLA RELEASES TO AIR/LAND/WATER MAY BE REPORTABLE TO NAT RESP CNTR 800-424-8802.KEEP OUT OF SURFACE WATERS/SEWERS/WATERWAYS ENTER/LEAD TO SURFACE WATERS.N OTIFY AUTHORITIES IF EXPO TO

PUBL/ENVIROCCURS.

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