

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:713-241-4819

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 INDUSTRIES

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 SPECIFIED

===== Hazards Identification =====  
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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 ORAL 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.

===== First Aid Measures =====

First Aid:EYE:F

LUSH 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  
UNNECESSARY.

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

Flash Point Meth

od: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 Procedures:LG SPILL:WEAR RESP/APPROP PROT CLOTH.SHUT OFF  
LEAK SOURCE

RCE 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)CONTAIN RESIDUES.HANDLE PER HAZ  
POTENTIAL OF CURING AGENT USED.A

VOID EYES CONTACT

Other Precautions:HEATING >300 F IN AIR MAY CAUSE SLOW OXIDATIVE  
DECOMPOSITION.DO NOT BREATHE 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  
PREVENT 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 Health  
LD50 DATA IS FOR EPON RESIN 838 A SIMILAR RESIN.

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===== 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 ALIPHATIC AMINES,CURING AGENTS  
Stability Condition to Avoid:REACT  
S 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 =====  
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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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