

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:71

3-241-4819

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 INDUST

RIES
Address:39 AVENUE C
Box:8
City:BAYONNE
State:NJ
ZIP:07002-3417
Country:US
Phone:201-437-6501
CAGE:33150

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===== 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:NON
E SPECIFIED

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

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.

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

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 UNNCECESSARY.

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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 Pr
cedures: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)C
ONTAIN 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 PRE

VENT 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 He
alth

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/SECONDAR

Y ALIPHATIC 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 POLYMERIZA

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===== 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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