

SHELL OIL COMPANY -- 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: CCMNX

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

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 (24 HOUR EMERGENC  
Y)

CAGE:54527

=== Contractor Identification ===

Company Name:PTI TECHNOLOGIES INC SUB OF HR TEXTRON INC

Box:UNKNOW

City:NEWBURY PARK

State:CA

ZIP:91319

Country:US

CAGE:1FD29

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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

Ingred Name:BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN NOTE:

RESIDUAL LEVELS OF EPICHLOROHYDRIN CONTROLLED TO 1 PPM MAX IN PROD.

CAS:25068-38-6  
RTECS #:SL6475000  
Fraction by Wt: 100.0%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50:11.4 G/KG-RAT;15.6 G/KG-MOUSE\*  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE: MODERATELY IRRITATING TO THE EYES. CONTACT W/PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS. SKIN: MODERATELY IRRITATING TO THE SKIN. PRODUCT MAY CAUSE SKIN SENSITIZATION. CONTACT W /PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS. INHAL: BECAUSE OF ITS LOW VOLATILITY THIS PROD \*\*  
Explanation of Carcinogenicity:NK \*DERMAL LD50: >20 ML/KG-RABBIT.  
Effects of Overexposure:IS NOT LIKELY TO BE AN INHALATION HAZARD. INGESTION: BASED ON PRODUCT TESTING, PRODUCT IS CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY. SKIN: SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHE S, 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/WATER-15 MIN, HOLD EYELIDS OPEN. SKIN: REMOVE CONTAM CLOTH/SHOES & WIPE EXCESS FROM SKIN. FLUSH W/WATER. WASH W/SOAP/WATER. CAREFULLY REMOVE CLOTH; IF CLOTH IS STUCK TO BURN AREA, DO NOT PULL OFF/CUT AROUND IT. COVER AREA W/CLEAN MAT'L. GET MED AID IMMED. INHAL:GET FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GETMED AID. INGEST: DO NOT INDUCE VOMITING. IN GEN NO TREATMENT IS \*\*\*

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

Flash Point Method:PMCC  
Flash Point:480F,249C  
Lower Limits:NOT AVAIL  
Upper Limits:NOT AVAIL  
Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL OR CO2.

Fire Fighting Procedures:WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER  
CONFINED FIRE SPACE W/O FULL BUNKER GEAR, INCLUDING POS PRESS NIOSH  
APPR'D SCBA. COOL FIRE EXPOSED CNTNRS W/WATER.

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

Spill Release Procedures:LG SPILL: WEAR RESPIRATOR & APPROP PROTECT  
CLOTH. SHUT OFF LEAK SOURCE IF SAFE TO DO. DIKE/CONTAIN. REMOVE  
W/VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP  
W/ABSORB. FLUSH AREA W/WATER. SM  
SPILL: TAKE UP W/ABSORB MAT'L &  
PROPERLY DISPOSE.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP FROM  
OPEN FLAME/HIGH TEMPS. CONTAINERS (EVEN EMPTY) CONTAIN RESIDUE.  
HANDLE PER HAZARD POTENTIAL OF CURING AGENT USED.

Other Precautions:HEATING THIS RESIN ABOVE 300F IN THE PRESENCE OF AIR  
MAY CAUSE SLOW OXIDATIVE DECOMPOSITION ABOVE 500F, POLYMERIZATION  
MAY OCCUR. DO NOT BREATH FUMES. AVOID C  
ONTACT W/EYES & PROLONGED OR  
REPEATED CONT ACT W/SKIN.

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

Respiratory Protection:USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO  
PREVENT OVEREXPOSURE. NOT ORDINARILY REQUIRED.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:AS REQUIRED TO MINIMIZE CONTACT.

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING,  
DRINKING, SMOKING, APPLYING CO  
SMETICS OR USING TOILET FACILITIES.

Supplemental Safety and Health

LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CONTAMINATED LEATHER  
ARTICLES, EVEN SHOES, CANNOT BE DECONTAMINATED & SHOULD BE  
DESTROYED TO PREVENT REUSE. MAY CAUSE IRRITATION. IN GENERAL, NO  
TREATMENT N ECESSARY UNLESS LARGE AMOUNTS OF PRODUCT ARE INGESTED.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:>500F,>260C

Melt/Freeze Pt:M.P/F.P Text:NA

Vapor Pres:0.03 @ 77C

Vapor De

nsity:NA

Spec Gravity:1.17

Evaporation Rate & Reference:NA

Solubility in Water:NEGLIGIBLE

Appearance and Odor:VERY LIGHT YELLOW, VERY VISCOUS LIQUID.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXID AGENTS, STRONG LEWIS/MNRL ACIDS & STRONG MNRL & ORGANIC BASES/ESPECIALLY PRIMARY/SECONDARY ALIPHATIC AMINES.

Stability Condition to Avoid:REACTS W/SOME CURING AGENTS. RUN-A-WAY CURE REACTIONS MAY CHAR/DECOMPOSE RE

SIN SYSTEM, GENERATING TOXIC

FUMES/VAPORS.

Hazardous Decomposition Products:CARBON MONOXIDE, ALDEHYDES, ACIDS & OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUST OR ELEVATED TEMP DEGRADATION.

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