

SHELL OIL COMPANY, PRODUCT SAFETY & COMPLIANCE -- EPON (R) RESIN 828 --  
8040-00-822-6430

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

Product ID:EPON (R) RESIN 828

MSDS Date:04/06/1989

FSC:8040

NIIN:00-822-6430

MSDS Number: BLKZF

==== Responsible Party ====

Company Name:SHELL OIL COMPANY, PRODUCT SAFETY & COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819

Emergency Pho

ne Num:713-473-9461/800-424-9300 CHEMTREC

Preparer's Name:J. C. WILLETT

CAGE:SHELL

==== Contractor Identification ====

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

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

Ingred Name:BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN

CAS:25068-38-6

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

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==== Hazards Identification =====

LD50 LC50 Mixture:ACUTE ORAL LD50: 11.4 G/KG (RAT);ACUTE\*\*

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

Health Hazards Acute and Chronic:EYE: MODERATELY IRRITATING. CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS. SKIN: MODERATELY IRRITATING. MAY CAUSE SKIN SENSITIZATION. CONTACT W/PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS. INHALE: NOT LIKELY TO BE A HAZARD. INGESTION: HAS

LOW ORDER OF ACUTE ORAL TOXICITY.

Explanation of Carcinogenicity:\*\*DERMAL LD50: >20 ML/KG (RABBIT).

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

Medical Cond Aggravated by Exposure:PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED. PREEXISTING 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/H2O-15 MIN.-HOLD EYELIDS OPEN. GET MED AID.

SKIN: REMOVE CONTAM CLOTH/SHOES. IF CLOTH STUCK TO BURN, DO NOT PULL, CUT AROUND IT. COVER BURN W/CLEAN MAT'L. GET MED AID. WIPE EXCESS FROM SKIN. FLUSH W/WATER. FOLLOW BY WASHING W/SOAP & WATER. IF IRRIT OCCURS, GET MED AID. INHALE: REMOVE TO FRESH AIR. BREATH DIFFICULT, GIVE OXYGEN. GET MED AID. INGEST: DO NOT INDUCE VOMIT. GET MED AID.

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

Flash

Point Method:PMCC

Flash Point:480F,249C

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

Fire Fighting Procedures:MAT'L WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE W/O FULL BUNKER GEAR, INCLDNG POS PRESS NIOSH APPR'D SCBA. COOL FIRE EXPOSED CNTNRS W/H2O.

Unusual Fire/Explosion Hazard:HEATING >300 F IN THE PRESENCE OF AIR MAY CAUSE SLOW OXIDATIVE DECOMP >500 F, POLYMERIZATION MAY OCCUR. DO NOT BREATHE FUMES.

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===== Accident

al Release Measures =====

Spill Release Procedures:USE CAUTION WHEN CLEANING SPILL. LG SPILL:  
WEAR RSPRTR & PROTECT CLOTH AS APPROP. SHUT OFF LEAK SOURCE IF  
SAFE. DIKE/CONTAIN. REMOVE W/VACUUM TRUCKS/PUMP TO STORAGE/SALVAGE  
VESS. SOAK UP W/ABSORB. PRO PERLY DISPOSE. FLUSH AREA  
W/WATER/REMOVE RESIDUE.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP FROM  
IGNITE SOURCES. CONTAIN  
RS, EVEN EMPTY, CAN CONTAIN HZDS RESIDUES.  
HANDLE PER HZD POTENTIAL OF CURING AGENTS USED.

Other Precautions:LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.  
CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE  
DECONTAMINATED & SHOULD BE DESTROYED TO PREVENT REUSE. MAY CAUSE  
IRRITATION. AVOID CONTACT W/EYES & PROLONGED OR REPEATED CONTACT  
W/SKIN.

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

Respiratory Protection:NOT ORDINARILY REQUIRED. USE A NIOSH-  
APPROVED  
RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. IN ACCORD W/20  
CFR1910.134, USE EITHER AN ATMOSPHERE-SUPPLY RESPIRATOR OR AN  
AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES.

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:WEAR PROTECTIVE CLOTHING AS REQUIRED TO  
MINIMIZE CONTACT.

Work Hygienic Practices:WASH W/SOAP & WATER BEFORE EATING, DRINKING,  
SMOKING, APPLYING COSMETICS, USING TOILET FACILITIES.

Supplemental Safety and Health

IF THIS RESIN IS HANDLED, SHIPPED OR STORED IN BULK, THE RECOMMENDED  
PUMPING TEMPERATURE IS 180 DEG. F, MAX TO PREVENT THERMAL BURNS,  
AVOID SKIN AN EYE CONTACT WITH HOT LIQUID.

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

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

Vapor Pres:0.03 @ 77F

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

STRONG OXID AGENTS, STRONG LEWIS OR MINERAL ACIDS & STRONG MINERAL & ORGANIC BASES, ESPEC PRIM/SECOND ALIPHATIC AMINES.\*

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

===== Disposal Considerations =====

Waste Disposal Methods: \*REACTION WITH SOME CURING AGENTS MAY PRODUCE CONSIDERABLE HEAT. RUN-A-WAY CURE REACTIONS MAY CHAR AND DECOMPOSE THE RESIN SYSTEM, GENERATING UNIDENTIFIED FUMES AND VAPORS WHICH MAY BE TOXIC.

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