

SHELL OIL COMPANY -- EPON(R) RESIN 828 -- 8030-00-086-1506

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

Product ID:EPON(R) RESIN 828

MSDS Date:09/16/1985

FSC:8030

NIIN:00-086-1506

MSDS Number: BCYFP

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:PRODUCT SAFETY & COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:SHELL: 713-241-4819

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

Preparer's Name:JOHN P. SEPESI

CAGE:SHE

LL

=== 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

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

Ingred Name:EPON RESIN 828

CAS:25068-38-6

RTECS #:KC2100000

Fraction by Wt: 100%

Ingred Name:EPICHLOROHYDRIN (SARA III)

CAS:106-89-8

RTECS #:TX4900000

OSHA PEL:S, 5 PPM

ACGIH TLV:S, 2 PPM; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INGESTION: LOW ORDER OF ACUTE ORAL

TOXICITY. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES.  
ESPECIALLY HIVES. IRRITATION AS NOTED.

Effects of Over

exposure:EYE: MOD IRRI. SKIN: MOD IRRI, SKIN

SENSITIZATION. INHALE: BECAUSE OF ITS VERY LOW VOLATILITY THIS  
PRODUCT IS NOT LIKELY TO PRODUCE ANY ADVERSE EFFECTS FROM INHALE.  
INGESTION: BASED ON PRODUCT TEST ING PRODUCT IS GENERALLY  
CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY. IRRI, SKIN  
SENSITIZER (ALLERGY) RASHES

Medical Cond Aggravated by Exposure:PREEXISTING SKIN ALLERGIES MAY

INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM  
EXPOSURE TO THIS

PRODUCT. SKIN & EYE DISORDERS MAY BE AGGRAVATED BY  
EXPOSURE TO THIS PRODUCT

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

First Aid:EYE: IMMEDIATELY FLUSH W/PLENTY OF WATER 15 MIN LIFTING LIDS. GET MED

ATTN. SKIN: IMMEDIATELY REMOVE CONTAM CLOTH/SHOES, FLUSH W/PLENTY OF WATER  
15 MIN USE SOAP & WATER. DON'T REUSE CLOTHES UNTIL THOROUGHLY CLEANED. GET  
MED ATTEN. CONTAM LEATHER CAN'T BE DECONTAMATED. INHALE: REMOVE  
TO FRESH AIR PROVIDE CPR/OXYGEN IF NEEDED. GET MED ATTEN.

INGEST:

DON'T INDUCE VOMIT. NO TREATMENT IS NECESSARY UNLESS LARGE AMTS. GET MED  
ADVISE

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

Flash Point Method:PMCC

Flash Point:480 F/ 298 C

Lower Limits:NA

Upper Limits:NA

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

Fire Fighting Procedures:DON'T ENTER CONFINED FIRE SPACE WITHOUT FULL

BUNKER GEAR MATERIAL WILL NOT BURN UNLESS PREHEATED. (HELMET, FACE  
SHIELD, BUNKER COATS, GLOVES, RUBBER BOOTS)

Unusual Fire

re/Explosion Hazard:ALSO USE A POSITIVE PRESSURE NIOSH  
APPROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED  
CONTAINERS WITH WATER.

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE.  
CAUTIOUS JUDGMENT WHEN CLEANING UP LG SPILLS. WEAR RESPIR  
&PROTECTIVE CLOTHES. SHUT OFF SOURCES OF LEAK IF SAFE. DIKE &  
CONTAIN. REMOVE W/VACUUM TRUCK/PUMP STORAGE/SALVAGE VESSELS. SOAK  
UP RESIDU  
E W/ABSORB

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE WITH  
ADEQUATE VENTILA- TION. KEEP AWAY FROM OPEN FLAME/HIGH TEMP. HANDLE  
IN ACCORD W/HAZARD POTENTIAL OF CURING AGENTS USED

Other Precautions:CAUTION: MAY CAUSE IRRITATION. AVOID CONTACT WITH  
EYES. AVOID PROLOGNED OR REPEATED CONTACT WITH SKIN OR BREATHING OF  
VAPORS. WASH THOROUGHLY AFTER USE. LAUNDERCONTAMINATED CLOTHING  
BEFORE REUSE. C

ONT AM LEATHER ARTICLES SHOULD BE DESTROYED

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

Respiratory Protection:NOT ORDINARILY REQUIRED. IF RESIN IS WARM/HEATED  
VAPORS OR MISTS MAY BE PRODUCEDUSE NIOSH-APPROVED RESPIRATOR AS  
REQUIRED TO PREVENT OVEREXPOSURE. USE EITHER ANATMOSPHERE SUPPLYING  
RESPIRATOR OR AN AI R PURIFYING RESPIRATOR FOR ORGANIC VAPOR

Ventilation:AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. (IF HEATED,  
VAPORS OR MIST MAY BE PRODUCED)

P  
rotective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY GLASSES OR GOGGLES AS APPROPRIATE

Other Protective Equipment:AVOID PROLONGED OR REPEATED CONTACT WITH  
SKIN. WEAR CHEMICALRESISTANT CLOTHING AS REQUIRED TO MINIMIZE  
CONTACT

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. LAUNDER  
CONTAMINATED CLOTHESBEFORE REUSE.

Supplemental Safety and Health

THIS PRODUCT IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL  
SUBSTANCES. ALTHOUGH THE SIGNIFICANCE IS UNKNOWN,

## EPON RESIN

828 HAS BEEN SHOWN TO BE MUTAG-ENIC IN SOME MICROBIAL TEST. BUT HAS  
FAI LED TO SHOW MUTAGENICITY IN OTHERS. CHROMOSOMAL ABERRATIONS  
WERE OBSERVED IN CULTURED RAT LIVER CELLS.

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

Boiling Pt:B.P. Text:NA  
Melt/Freeze Pt:M.P/F.P Text:NA  
Decomp Temp:Decomp Text:NA  
Vapor Pres:NA  
Vapor Density:NA  
Spec Gravity:1.17  
Evaporation Rate & Reference:NA  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:VERY LIGHT YE  
LLOW, VERY VISCOUS LIQUID

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

Stability Indicator/Materials to Avoid:YES  
CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS AND STRONGLEWIS OR  
MINERAL ACIDS.  
Stability Condition to Avoid:IN REACTIONS WITH MAY CURING AGENTS,  
CONSIDERABLE HEAT IS RELEASED.  
Hazardous Decomposition Products:CARBON MONOXIDE, ALDEHYDES & ACIDS MAY  
BE FORMED DURING COMBUSTION. REACT W/CURING AGENTS MAY PRODUCE  
CONSIDERABLE HEAT  
Condition  
s to Avoid Polymerization:WILL NOT OCCUR

### ===== Disposal Considerations =====

Waste Disposal Methods:PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN  
COMP-LIANCE WITH LOCAL REGULATIONS. SOAK UP RESIDUE W/ AN ABOSRBENT  
SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL. FLUSH AREA W/WTR TO  
REMOVE TRACE OF RES- IDUE. SM SPILL TAKE UP WITH ABSORBENT &DISPOSE

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