

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

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Product Identification
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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:713-473-94

61 CHEMTREC: 800-424-9300

Preparer's Name:JOHN P. SEPESI

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

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Composition/Information on Ingredients
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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 BEEVIDENCED BY RASHES.

ESPECIALLY HIVES. IRRITATION AS NOTED.

Effects of Overexposure: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 TOHAVE 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: IMMED FLUSH W/PLENTY OF WTR 15 MIN LIFTING LIDS. GET MED ATTN. SKIN: IMMED REMOVE CONTAM CLOTH/SHOES, FLUSH W/PLENTY OF WTR 15 MIN USE SOAP & WTR. DON'T REUSE CLOTHES UNTIL THORO CLEANED. GET MED ATTN. CONTAM LEATHER CAN'T BE DECONTAMDESTROY. INHALE: REM

OVE

TO FRESH AIR PROVIDE CPR/OXYGEN IF NEEDED. GET MED ATTN.INGEST:
DON'T INDUCE VOMIT. NO TREAT IS NECESSARY UNLESS LG 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

SHEILD, BUNKER COATS, GLOVES, RUBBER BOOTS)

Unusual Fire/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 RESIDUE 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 THORO

UGHLY AFTER USE. LAUNDERCONTAMINATED CLOTHING

BEFORE REUSE. CONT 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 CON

CENTRATIONS. (IF HEATED,
VAPORS OR MIST MAY BE PRODUCED)
Protective 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 CHEMI
CAL

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 YELLOW, 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
Conditions 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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ion by the compiling agencies):

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