

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- EPON (R) RESIN 828 -- 8040-00-822-6430

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Product Identification
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Product ID:EPON (R) RESIN 828

MSDS Date:06/04/1993

FSC:8040

NIIN:00-822-6430

MSDS Number: CCMRB

=== Responsible Party ===

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

Info Phone Num:713-

241-4819

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

CAGE:86961

=== 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 CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address:1 SHELL PLAZA

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Composition/Information on Ingredients
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Ingred Name:BISPHENOL A/EPICH

LOROHYDRIN 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

===== 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

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 RAS HES, 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.

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

First Aid:EYE: FLUSH W/WATER-15 MIN, HOLD EYELIDS OPEN

N. 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 IMMEDIATELY. INHAL:GET FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MED AID. INGEST: DO NOT INDUCE VOMITING. IN GENERAL NO TREATMENT IS ***

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

Flash Point Method:PMCC

Flash Point:480F,249C

L

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. R
EMOVE

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
MA
Y CAUSE SLOW OXIDATIVE DECOMPOSITION ABOVE 500F, POLYMERIZATION
MAY OCCUR. DO NOT BREATHE FUMES. AVOID CONTACT W/EYES & PROLONGED OR
REPEATED CONTACT 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 COSMETICS OR USING TOILET FACILITIES.

Supplemental Safety and Health

LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. CONTAMINATED LEATHER
ARTICLES, EVEN SHOES, CANNOT BE DECONTAMINATED & SHOULD BE
DESTROYED TO PREVENT REUSE. MAY CAUSE IRRITATION. ***IS NO
TREATMENT NECESSARY UNLESS LARGE AMOUNTS OF PRODUCT ARE INGESTED.

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

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

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

Vapor Pres:0.03 @ 77C

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

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

Stabili

ty Condition to Avoid:REACTS W/SOME CURING AGENTS. RUN-A-WAY

CURE REACTIONS MAY CHAR/DECOMPOSE RESIN 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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