

SHELL OIL COMPANY -- EPON (R) RESIN 823 -- 8030-01-284-3943

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Product Identification  
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Product ID:EPON (R) RESIN 823

MSDS Date:10/15/1987

FSC:8030

NIIN:01-284-3943

MSDS Number: BRNTC

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-2252

Emergency Phone Num:713-241-2252

CAGE:SHELL

=== Contractor Identificati

on ===

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:BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN

CAS:25068-38-6

RTECS #:KC2100000

Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL LD50: 11.4 G/KG (RAT)  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:UNKNOWN IARC:NO  
Health Hazards Acute and Chronic:EYE: MODERATELY IRRITATING, CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS. SKIN: MODERATELY IRRITATING, SKIN SENSITIZATION, CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS.  
Explanation of Carcinogenicity:LIMITED EVIDENCE OF WEAK CARCINOGENICITY OF DIGLYCIDYL ETHER OF BISPHENOL A IN ANIMALS  
Effects of Overexposure:IRRITATION AS NOTED. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.  
Medical Cond Aggravated by Exposure:PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PREEXISTING 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.GET MED AID.IF CONTACT W/HOT PRODCT OCCURS,IMMED FLUSH W/COOL WATER 15 MIN.GET MED AID IMMED. SKIN:REMOVE CONTAM CLOTH/SHOES & WIPE EXCESS FROM SKIN.FLUSH W/ WATER,THEN WASH W/SOAP & WATER.IF IRRIT,GET MED AID.IF HOT PRODUCT,IMMED FLUSH W/COOL WATER 15 MIN.REMOVE CLOTH W/CARE.IF CLOTH STUCK TO BURN,DON'T PULL OFF,CUT AROUND.COVER BURN W/MAT'L.GET MED AID.

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

Flash Point Method:PMCC  
Flash Point:480F,249C  
Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL, OR CO2.  
Fire Fighting Procedures:MAT'L WILL NOT BURN UNLESS PREHEATED. DON'T ENTER CONFINED FIRE SPACE W/OUT FULL BUNKER GEAR, INCLUDING POSITIVE PRESSURE SCBA. COOL FIRE EXPOSED CNTNR W/WATER.  
Unusual Fire/Explosion Hazard:SEE SPECIAL PRECAUTIONS SECTION.

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Accidental Release Measures =====

Spill Release Procedures:NOT EASILY IGNIT, BUT MAY BURN. LRG: WEAR RSPRTR & PROTECT CLOTH. SHUT OFF SOURCE OF LEAK IF SAFE. DIKE & CONTAIN. REMOVE W/VACUUM TRUCK/PUMP TO STORAGE/SALVAGE VESSEL. USE ABSORBNT THEN FLUSH W/WATER . SMALL: USE ABSORBENT THEN FLUSH RESIDUE W/WATER.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP AWAY FROM FLAME & H

IGH TEMPS. CNTNR (EVEN EMPTY) CONTAIN RESIDUES.

HANDLE IN ACCORD W/HZD POTENTIAL. DON'T BREATH FUMES

Other Precautions:AVOID EYE CONTACT, PROLONGED/REPEATED SKIN CONTACT.

HEATING RESIN >300F IN PRESENCE OF AIR MAY CAUSE SLOW OXIDATIVE

DECOMP. >500F POLYMERIZATION MAY OCCUR. SOME CURING AGENTS PRODUCE EXOTHERMIC REACTI ONS. IF TRANSPORTED, PUMPING TEMP--180F.

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

Respiratory Protection:NOT NORMALLY REQUIRED. USE NIO SH RESPIRATOR TO

PREVENT OVEREXPOSURE. IN ACCORD W/20 CFR 1910.134, USE ATMOSPHERE SUPPLY RESPIRATOR OR AIR PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

Work Hygienic Practices:WASH W/SOAP & WATER BEFORE

EATING,DRINKING,SMOKING,APPLYING COSMETICS,USING TOILET. LAUNDER CONTAM CLOTHING

BEFORE REUSE

Supplemental Safety and Health

FIRST AID: INHALATION: REMOVE TO FRESH AIR & GIVE OXYGEN IF BREATHING DIFFICULT. GET MED AID. INGESTION: DO NOT INDUCE VOMITING. NO

TREATMENT NECESSARY UNLESS LARGE QTY OF PRODUCT INGESTED. HOWEVER, G ET MED ADVICE. NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS.

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

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

Vapor Pres:0.03

@ 77C

Spec Gravity:1.17 (WATER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:VERY LIGHT YELLOW, VERY VISCOUS LIQUID

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS,STRONG LEWIS/MINERAL ACIDS,& STRONG MINERAL & ORGANIC BASES & ALIPHATIC AMINES. REACTS W/CURING AGENTS.

Hazardous Decomposition Products:CARBON MONOXIDE, ALDEHYDES, ACIDS, AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSITON OR

ELEVATED TEMP (>500).

Conditions to Avoid Polymerization:RUN-A-WAY CURE REACTIONS MAY CHAR & DECOMPOSE RESIN SYSTEM, GENERATING UNIDENTIFIED FUMES & VAPORS WHICH MAY BE TOXIC.

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

Waste Disposal Methods:DISPOSE OF PROPERLY.

CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SH OULD BE DESTROYED TO PREVENT REUSE.

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