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SHELL OIL, ENVIRONMENTAL AFFAIRS -- EPON CURING AGENT U -- 8010-01-060-7176

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

Product ID:EPON CURING AGENT U

MSDS Date:05/23/1988

FSC:8010

NIIN:01-060-7176

Kit Part:Y

MSDS Number: BTSRN === Responsible Party ===

Company Name: SHELL OIL, ENVIRONMENTAL AFFAIRS

Box:4320

City:HOUSTON

State:TX ZIP:77210 Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-946

1 800-424-9300(CHEMTREC)

Preparer's Name: G.A. VAN GELDER

CAGE:KO036

=== Contractor Identification ===

Company Name: SHELL OIL COMPANY CORPORATE ENVIRONMENTAL AFFAIRS

Box:4320

City:HOUSTON

State:TX ZIP:77210 Country:US

Phone:713-241-4819/713-473-9461

CAGE:3H919

Company Name: SHELL OIL, ENVIRONMENTAL AFFAIRS

Box:4320

City:HOUSTON

State:TX ZIP:77210 Country:US

Phone:713-241-4819

CAGE:KO036

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

Ingred Name: EPOXY RESIN/AMINE ADDUCT

CAS:68

610-56-0

Fraction by Wt: 73%

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIETHYLENETRIAMINE

CAS:111-40-0

RTECS #:IE1225000 Fraction by Wt: 25%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 PPM

ACGIH TLV:S, 1 PPM; 9394

Ingred Name:PHENOL (SARA III) (SARA III)

CAS:108-95-2

RTECS #:SJ3327000 Fraction by Wt: 3%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:S, 5 PPM

ACGIH TLV:S,5 PPM; 9394 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2.33G/KG FOR INGRED 3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES:CORROSIVE.MAY CAUSE SEVERE

IRRITATION OR CORNEAL DAMAGE.SKIN:MAY CAUSE

IRRITATION, SENSITIZATION. MAY BE DERMALLY ABSORBED IN HARMFUL AMOUNTS. INGEST: MAY CAUSE GI TRACT IRRITATION. INHAL: MAY CAUSE RE SPIRATORY IRRITATION. CHRONIC: MAY DAMAGELIVER, KIDNEY, BLADDER AND HEART.

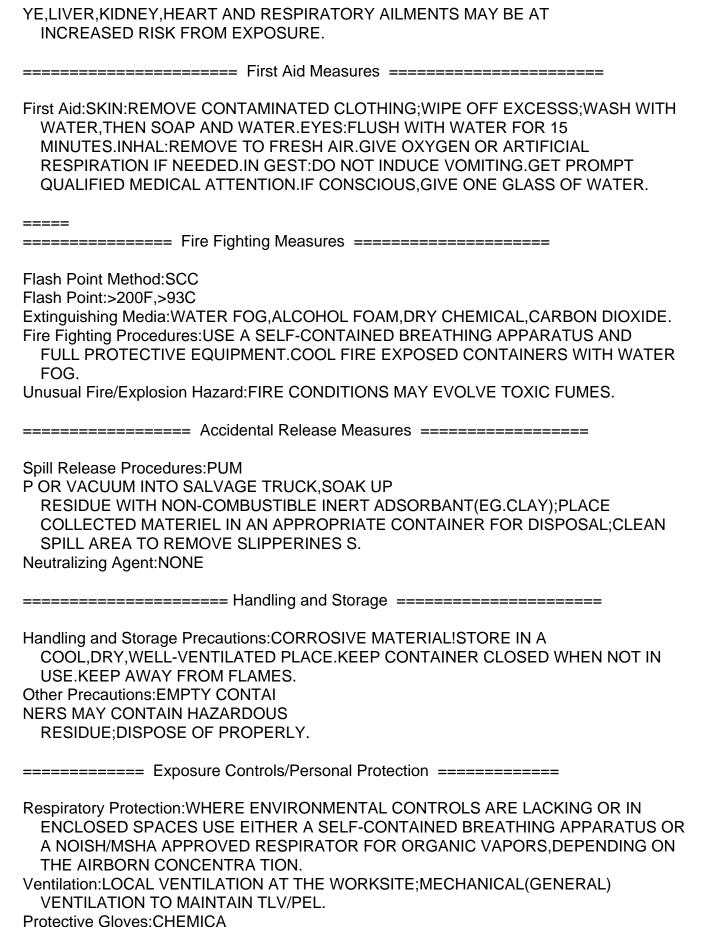
Expl

anation of Carcinogenicity:DIETHYLENETRIAMINE HAS BEEN SHOWN TO HAVE REPRODUCTIVE EFFECTS.

Effects of Overexposure: EYES: TEMPORARY VISION

DISTURBANCE.SKIN:RASHES(HIVES).CNS DEPRESSION,RESPIRATORY DISTRESS.INHAL:GIDDINESS,HEADACHE,NAUSEA,DIZZINESS,WHEEZING,SHORTNE SS OF BREATH,COUGH).KIDNEY DAMAGE-CHANGE IN URINE OUT PUT,SWELLING.LIVER DAMAGE-LOSS OF APPETITE,YELLOWED SKIN,ABDOMINAL PAIN ON RIGHT SIDE.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN,E



L-RESISTANT. Eye Protection:CHEMICAL GOGGLES. Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING. Supplemental Safety and Health KEY1;N1,REFER TO PNIND-D.
========= Physical/Chemical Properties ==========
HCC:N1 Vapor Pres:1 Spec Gravity:1.1 Solubility in Water:MODERATE(MISCIBLE) Appearance and Odor:LIQU ID;YELLOW;AMMONIA-LIKE ODOR.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDANTS,STRONG LEWIS OR MINERAL ACIDS Stability Condition to Avoid:HIGH HEAT,SOURCES OF IGNITION.MATERIAL WILL BURN IF PREHEATED. Hazardous Decomposition Products:CARBON MONOXIDE,CARBON DIOXIDE,PHENOL,OXIDES OF NITROGEN,ORGANIC CHEMICALS CONTAINING NITROGEN,DIETHYLENETRIAMINE.
======= Disposal Considerations ====================================
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND

LOCAL REGULATIONS.

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