

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:713-473-94

61 800-424-9300(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:6

8610-56-0

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

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

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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.

Exp

Explanation 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,

EYE,LIVER,KIDNEY,HEART AND RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WIPE OFF EXCESS;WASH WITH WATER,THEN SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.IN GEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE ONE GLASS OF WATER.

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

Flash Point Method:SCC
Flash Point:>200F,>93C
Extinguishing Media:WATER FOG,ALCOHOL FOAM,DRY CHEMICAL,CARBON DIOXIDE.
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.
Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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

Spill Release Procedures:PU
MP OR VACUUM INTO SALVAGE TRUCK,SOAK UP
RESIDUE WITH NON-COMBUSTIBLE INERT ADSORBANT(EG.CLAY);PLACE COLLECTED MATERIEL IN AN APPROPRIATE CONTAINER FOR DISPOSAL;CLEAN SPILL AREA TO REMOVE SLIPPERINES S.
Neutralizing Agent:NONE

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

Handling and Storage Precautions:CORROSIVE MATERIAL!STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM FLAMES.
Other Precautions:EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE;DISPOSE OF PROPERLY.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NOISH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS,DEPENDING ON THE AIRBORN CONCENTRATION.
Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.
Protective Gloves:CHEMIC

AL-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:LIQ

UID;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 =====

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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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