

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

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

=====
===== 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.

=====
===== 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.

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

Spill Release Procedures:PUMP 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

=====
===== 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.

=====
===== 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:CHEMICAL

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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice

to verify and
assume responsibility for the suitability of this information to their
particular situation.