

SHELL OIL COMPANY -- CURING AGENT U -- 8030-00-839-1442

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

Product ID:CURING AGENT U

MSDS Date:10/30/1989

FSC:8030

NIIN:00-839-1442

MSDS Number: BHVVK

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:HEALTH, SAFETY AND ENVIRONMENT

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819/4141/2252 FAX -6511

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

Preparer's Name:C.A. EISENHAR

D

CAGE:SHELL

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

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

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

Ingred Name:EPOXY RESIN/AMINE ADDUCT

CAS:68610-56-0

Fraction by Wt: 73%.

Ingred Name:DIETHYLENE TRIAMINE

CAS:111-40-0

RTECS #:IE1225000

Fraction by Wt: 25%.

OSHA PEL:1 PPM

ACGIH TLV:S, 1 PPM; 9192

Ingred Name:PHENOL (SKIN)

CAS:108-95-2

RTECS #:SJ3330000

Fraction by Wt: 2%.

ACGIH TLV:5 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: SEVERELY IRRITATING TO THE EYES.

SKIN: MODERATELY TOXIC,MAY BE SEVERELY IRRITATING AS A SKIN

SENSITIZER. INHALATION: MAY CAUSE IRRITATION TO THE NOSE, THROAT

AND RESPIRATORY TRACT, AND VAPORS AND MISTS ARE PRESUMED TO CAUSE

LUNG SENSITIZATION. INGESTION: NK

Effects of Overexposure:EYE: IRRITATION TO SEVERE IRRITATION.

SKIN:

SLIGHT IRRITATION TO SEVERE SKIN SENSITIZATION REACTION.

INHALATION: MAY CAUSE IRRITATION TO THE NOSE, THROAT, AND

RESPIRATORY TRACT, AND VAPORS AND MISTS A RE PRESUMED TO CAUSE LUNG

SENSITIZATION. INGESTION: NK

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

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST

15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:

REMOVE CONTAMINATED CLOTHING, SHOES, WIPE EXCES

S FROM SKIN AND

FLUSH WITH PLENTY OF WATER AND SOAP FOR AT LEAST 15 MINUTES.

INHALATION: REMOVE VICTIM TO FRESH AIR, PROVIDE OXYGEN IF BREATHING IS DIFFICULT OR GIVE CPR. INGESTION: DONOT INDUCE VOMITING, GET MED. ATTENTION

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

Flash Point Method:SCC

Flash Point:>200F,>93C

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG

Fire Fighting Procedures:EVACUATE

AREA, MATERIAL WILL NOT BURN UNLESS

PREHEATED. WEAR FULL BUNKER GEAR, HELMET WITH FACE SHIELD, ETC., AND NIOSH APPRV. SELF-CONTAINING BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:DETA AND PHENOL VAPORS MAY BE RELEASED, NITROGEN OXIDES AND NITROGEN CONTAINING ORGANIC COMPOUNDS MAY BE RELEASED UPON COMBUSTION.

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

Spill Release Procedures:WEAR RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK IF SAFE

TO DO SO. DIKE/CONTAIN REMOVE WITH VACUUM

TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT. FLUSH AREA WITH WATER AND DISPOSE OF PROPERLY.

Neutralizing Agent:NONE

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

Respiratory Protection:AVOID BREATHING VAPOR OF MISTS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPO. LTV. USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULLFACE

, AT MOSPHERE/AIR PURIFYING RESPIRATOR EQUIP.

Protective Gloves:NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection:USE CHEMICAL FULL FACE SAFETY GOGGLES.

Other Protective Equipment:BUNKER COATS, GLOVES AND RUBBER BOOTS

Supplemental Safety and Health

NK

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

HCC:B2

Boiling Pt:B.P. Text:NA

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

Decomp Temp:Decomp Text:NA

Vapor Pres:1

Spec Gravity:1.1

pH:NA

Evaporation Rate & Reference:NA

Solubility in Wat

er:MISCIBLE

Appearance and Odor:LIGHT YELLOW LIQUID AMMONICAL ODOR

Percent Volatiles by Volume:NA

Corrosion Rate:NA

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:NITROGEN OXIDES, CARBON MONOXIDE AND

UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

===== Disposal Consi

derations =====

Waste Disposal Methods:PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN  
COMPLIANCE WITH LOCAL REGULATIONS.

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