

SHELL OIL CO PRODUCT SAFETY AND COMPLIANCE -- EPON CURING AGENT R U --  
8010-01-060-7176

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

Product ID:EPON CURING AGENT R U

MSDS Date:10/28/1986

FSC:8010

NIIN:01-060-7176

Kit Part:Y

MSDS Number: BJJGZ

=== Responsible Party ===

Company Name:SHELL OIL CO PRODUCT SAFETY AND COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819

Emer

gency Phone Num:713-473-9461 OR 800-424-9300

CAGE:3H919

=== Contractor Identification ===

Company Name:AEROFAB CO INC.

Address:2335 GOODRICH ST

Box:City:FERNDALE

State:MI

ZIP:48220-1440

Country:US

Phone:313-542-0051

CAGE:01685

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:T. J. MACHINE & TOOL CORP.

Address:700 W MAIN STREET

Box:City:AZLE

State:TX

ZIP:76020

Country:US

Phone

:817-444-5548  
CAGE:4K455

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Composition/Information on Ingredients  
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Ingred Name:EPON CURING AGENT U  
Fraction by Wt: 100%

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, LD50: (ORAL) 530 MG/KG (RAT).  
CAS:108-95-2  
RTECS #:SJ3325000  
Fraction by Wt: 2%  
OSHA PEL:5 PPM/SKIN  
ACGIH TLV:10 PPM/SKIN  
EPA Rpt Qty  
:1000 LBS  
DOT Rpt Qty:1000 LBS

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Hazards Identification  
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LD50 LC50 Mixture:SEE SUPP DATA  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE:SEV IRRIT TO THE EYES;SKIN:MOD  
TOXIC & MAY BE HARMFUL IF ABSORBED THRU THE SKIN,SEV IRRIT TO THE  
SKIN, SKIN SENSITIZER,INHAL:IRRIT TO NOSE,THROAT&RESP TRACT.  
VAPORS&MISTS ARE PRESUMED TO CAUSE LUN G SENSITIZA  
TION.INGEST:MOD  
TOXIC AND MAY BE HARMFUL IF SWALLOWED.  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:IRRITATION AS NOTED ABOVE. SKIN SENSITIZATION  
(ALLERGY) MAY BE EVIDENCED BY RASHES. ESPECIALLY HIVES. LUNG  
SENSITIZATION (E.G., ALLERGY, ASTHMA) MAY BE EVIDENCED BY WHEEZING  
WITH SORTNESS OF BREATH AN D COUGH.  
Medical Cond Aggravated by Exposure:PREEXISTING EYE,SKIN&RESP DISORDERS  
MAY BE AGGRAVATED BY EXPOS TO THIS PROD. PREEXISTING SKIN/LUNG  
ALLERGI

ES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOS TO THIS PROD.

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

First Aid:EYE:IMMED FULSH EYE W/PLENTY OF H\*2O ATLEAST 15 MIN WHILE HOLDING EYELIDS OPEN.GET MD ATTN;SKIN:IMMED REMOVE CONTAM CLTH OR SHOES,WIPE EXCESS FROM SKIN&FLUSH W/PLENTY OF H\*2O AT LEAST 15 MIN.DO NOT RE USE CLTH UNTIL THOROUGHLY CLEANED.GET MD.INHAL:REMOVE VICTIM TO FRESH AIR&PROVIDE O\*2 IF BRTH IS DFCLT.GE T MD.INGEST:DO NOT INDUCE VOMIT.DO NOT GIVE LIQ TO A VERY DROWSY,CONVL OR UNCON PERSON.SEE MD.

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

Flash Point Method:SCC  
Flash Point:>200F,>93C  
Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.  
Fire Fighting Procedures:EVACUATE HAZ AREA OF UNPROTECTED PERS.MATL WILL NOT BURN UNLESS PREHEATED.USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT.  
Unusual Fire/Explosion Hazard:DETA AND PH ENOL VAPORS MAY BE RELEASED.  
NITROGEN OXIDES AND NITROGEN CONTAINING ORGANIC COMPOUNDS MAY BE RELEASED UPON COMBUSTION.

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNIT. USE CAUTIOUS JUDGEMENT WHEN CLEANING UP LGE SPILL. WEAR NIOSH/MSHA APPROVED RESP & PROT CLTH AS APPROP. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE & CONTAIN.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:SENSITIZER, SEV IRRIT. MINIMIZE ALL CONT W/MATL.  
Other Precautions:STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMP, EMPTY CNTNRS CAN HAVE HAZARDOUS PRODUCT RESIDUES.

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

Respiratory Protection:AVOID BRTH VAPOR OR MISTS. IF EXPOS MAY OR DOES EXCEED, TLV, PEL. USE A NIOSH/MSHA APPROVE

D FULL-FACE PIECE RESP TO  
PVNT OVEREXPOS.

Ventilation:AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:WEAR CHEMICAL-RESISTANT GLOVES

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE.

Work Hygienic Practices:WASH W/SOAP & WATER BEFORE EATING. DRINKING,  
SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAM CLTH BEFORE  
REUSE.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

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===== Physical/Chemical Properties =====  
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Vapor Pres:1

Spec Gravity:1.1

Solubility in Water:MISCIBLE

Appearance and Odor:LIGHT YELLOW LIQUID, AMMONICAL ODOR.

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===== Stability and Reactivity Data =====  
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Stability Indicator/Materials to Avoid:YES

SEE ABOVE

Stability Condition to Avoid:CAN REACT WITH STRONG OXIDIZING AGENTS AND  
STRONG LEWIS OR MINERAL ACIDS.

Hazardous Decomposition Products:NITROGEN OXIDES, CARBON MONOXIDE AND  
UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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===== Disposal Considerations =====  
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Waste Disposal Methods:PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN  
COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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