

DOW CHEMICAL U S A -- DER (R) 331 EPOXY RESIN -- 8030-00-086-1506

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

Product ID:DER (R) 331 EPOXY RESIN

MSDS Date:02/28/1992

FSC:8030

NIIN:00-086-1506

MSDS Number: BNSXG

=== Responsible Party ===

Company Name:DOW CHEMICAL U S A

Address:DORINCO CENTER, SUITE 300

City:MIDLAND

State:MI

ZIP:48674

Country:US

Info Phone Num:609-234-0400/609-273-3611 FAX

Emergency Phone Num:517-636-4400

Preparer's Name:DICK SAYAD

CAGE:71983

=== Contrac

tor Identification ===

Company Name:DOW CHEMICAL U.S.A.

City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:517-636-4400

CAGE:71983

Company Name:STEVEN INDUSTRIES

Address:39 AVENUE C

Box:8

City:BAYONNE

State:NJ

ZIP:07002-3417

Country:US

Phone:201-437-6501

CAGE:33150

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

Ingred Name:REACTION PRODUCTS OF EPICHLOROHYDRIN & BISPHENOL A

CAS:25085-99-8

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

===== Hazards Id

entification =====

LD50 LC50 Mixture:ORAL LD50 RATS: >3000 MG/KG; \*\*

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

Health Hazards Acute and Chronic:EYE: SLIGHT TEMPORARY IRRITATION.

SKIN: REPEATED EXPOSURE: SKIN IRRIT. ALLERGIC SKIN REACTION.

ABSORPTION: HARMFUL. INGESTION: NO HAZARDS ANTICIPATED FROM

SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: VAPORS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES.

Explanation of Carcinoge

nicity:IARC HAS CONCLUDED THAT DGEBA IS NOT

CLASSIFIABLE AS TO CARCINOGENICITY. SEE MORE INFORMATION ON FILE.

Effects of Overexposure:N/K SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

EXCEPT FOR SKIN SENSITIZATION, REPEATED EXPOSURE TO LOW MOLECULAR  
WEIGHT DIGLYCIDYL ETHER OF BISPHENOL A ARE NOT ANTICIPATED TO CAUSE  
ANY SIGNIFICANT ADVERSE EFFECTS.

Medical Cond Aggravated by Exposure:N/K \*\* SKIN ABSORPTION LD50

RABBITS: 20,000 MG/KG.

===== First Aid Measures

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First Aid:EYES: FLUSH EYES WITH PLENTY OF WATER. SKIN: WASH OFF IN  
FLOWING WATER OR SHOWER. INGESTION: NO ADVERSE EFFECTS ANTICIPATED  
BY THIS ROUTE OF EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.  
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A  
PHYSICIAN. NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE  
CARE. TREATMENT BASED ON JUDGEMENT OF PHYSICIAN IN RESPONSE TO  
PATIENT'S REACTIONS.

===== Fire Fighting Me

asures =====

Flash Point Method:PMCC

Flash Point:485F,252C

Extinguishing Media:FOAM, CO2, DRY CHEMICAL.

\* 11,000 - 14,000 CPS.

Fire Fighting Procedures:WEAR POSITIVE PRESSURE SELF-CONTAINED  
BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NONE KNOWN.

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

Spill Release Procedures:SOAK UP IN ABSORB. COLLECT IN CNTNR. REMOVE  
RESIDUAL USING STEAM/HOT SOAPY WATER. SOLVENT NOT RECOMMENDED FO

R

CLEANUP UNLESS EXPOSURE GUIDELINES & HANDLING PRACTICES FOR SPECIFIC SOLVENTS FOLLOWED. SEE SOLVENT MSDS FOR INFO. KEEP SPARK PRODUCING \*\*\*

Neutralizing Agent:N/K \*\*\* EQUIPMENT AWAY. LRG SPILLS: EVACUATE UPWIND OF SPILL & DIKE.

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

Handling and Storage Precautions:SEE DOW BULLETIN "DOW EPOXY RESINS, SAFE HANDLING & STORAGE GUIDE." PRACTICE GOOD CAUTION & PERSONAL CLEANLINESS TO AVOID EYE/SKIN CONTACT.

Ot

her Precautions:AVOID BREATHING VAPORS OF HEATED MAT'L.

# W/FEDERAL, STATE & LOCAL

REGULATIONS. DOW PROVIDES FOR ITS CUSTOMERS LISTS OF COMPANIES THAT RECYCLE, REPROCESS, ETC. 800-441-4369 OR 517-832-1419.

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

Respiratory Protection:NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

Protective Gloves:SELECTION OF GLOVES DEPENDS ON OPERATION

Eye Protection:USE SAFETY GLASSES OR CHEMICAL GOGGLES.

Other Protective Equipment:USE PROTECTIVE CLOTHING IMPERVIOUS TO MAT'L. SELECTION OF SPECIFIC ITEMS DEPENDS ON OPERATION.

Work Hygienic Practices:REMOVE CONTAMINATED CLOTHING IMMEDIATELY, WASH SKIN AREA WITH SOAP AND WATER, LAUNDER CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:V5

Spec Gravity:1.16

Viscosity:\*

Solubility in Water:NONE

Appearance

and Odor:WATER-WHITE TO YELLOW LIQUID TO SEMI-SOLID. FAINT EPOXY ODOR.

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

BASE, ACID, AMINES AND OXIDIZING MATERIALS.

Stability Condition to Avoid:EXCESS HEATING OVER LONG PERIODS OF TIME DEGRADES THE RESIN.

Hazardous Decomposition Products:UPON INCOMPLETE COMBUSTION: MAINLY PHENOLICS, CARBON MONOXIDE, WATER. TREAT AS POTENTIALLY HAZARDOUS SUBSTANCES.

Conditions to Avoid Polymerization:OVER 1 LB OF PRODUCT PLUS A

LIPHATIC

AMINE WILL CAUSE IRREVERSIBLE POLYMERIZATION WITH CONSIDERABLE HEAT BUILDUP.

===== Disposal Considerations =====

Waste Disposal Methods:FOR UNUSED, UNCONTAM MAT'L, SENT TO LICENSED RECYCLER, RECLAIMER OR INCINERATOR. USED OR CONTAM MAT'L, SAME AS ABOVE, BUT ADDITIONAL EVALUATION REQ'D (40 CFR 261-IDENTIFICATION & LISTING OF HAZARDOUS WASTE). ANY DISPOSAL PRACTICE MUST BE IN COMPLY #

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