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## 

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 N um:517-636-4400

Preparer's Name:DICK SAYAD

CAGE:71983

=== Contractor 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%

0

## ther REC Limits: NONE SPECIFIED 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 Carcinogenicity: IARC HAS CONCLUDED THAT DGEBPA 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 AD VERSE EFFECTS. Medical Cond Aggravated by Exposure: N/K \*\* SKIN ABSORPTION LD50 BITS: 20,000 MG/KG. 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. INHALATI ON: 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. Flash Point Method: PMCC

Flash Point: 485F, 252C

Extinguishing Media: FOAM, CO2, DRY CHEMICAL.

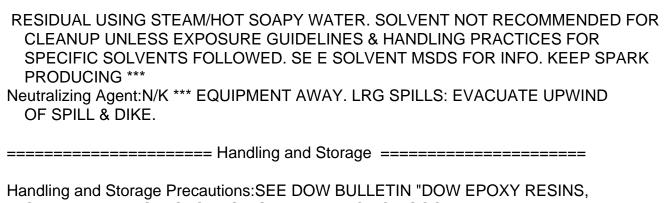
\* 11,000 - 14,000 CPS.

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



Handling and Storage Precautions:SEE DOW BULLETIN "DOW EPOXY RESINS, SAFE HANDLING & STORAGE GUIDE." PRACTICE GOOD CAUTION & PERSONAL

CLEANLINESS TO AVOID EYE/SKIN CONTACT.

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

# W/FEDERAL, STATE & LOCAL

REGULATIONS. DOW PROVIDES FOR ITS CUSTOMERS LISTS OF COMPANIES THAT RECYCLE, REPRO CESS, 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 SUBSTANCE

5.	
Conditions to Avoid Polymerization:OVER 1 LB OF PRODUCT PLUS ALIPHATIC	
AMINE WILL CAUSE IRREVERSIBLE POLYMERIZATION WITH CONSIDERABL	E 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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