

DEXTER ELECTRONIC MATERIALS -- 50-507R RED (XX0364) -- 7510-01-200-8670

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

Product ID:50-507R RED (XX0364)

MSDS Date:11/10/1997

FSC:7510

NIIN:01-200-8670

Status Code:A

MSDS Number: CJDNB

=== Responsible Party ===

Company Name:DEXTER ELECTRONIC MATERIALS

Address:15051 EAST DON JULIAN ROAD

City:INDUSTRY

State:CA

ZIP:91746-1282

Country:US

Info Phone Num:818-968-6511

E

mergency Phone Num:818-916-9107

Resp. Party Other MSDS Num.:XX0364

Chemtre Ind/Phone:(800)424-9300

CAGE:79436

=== Contractor Identification ===

Company Name:ALLEN WOODS & ASSOCIATES

Box:UNKNOW

CAGE:02332

Company Name:DEXTER CORP DEXTER ELECTRONIC MATERIALS

Address:15051 E DON JULIAN RD

Box:City:INDUSTRY

State:CA

ZIP:91746-1282

Country:US

Phone:626-968-6511

CAGE:79436

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

Ingred Name:BISPHENOL A EPOXY RESIN; (EPOXY RESIN)

CAS:25

068-38-6  
RTECS #:CE6880000  
Minumum % Wt:15.  
Maxumum % Wt:40.  
Other REC Limits:N/K  
OSHA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:BISPHENOL A  
CAS:80-05-7  
RTECS #:SL6300000  
Minumum % Wt:7.  
Maxumum % Wt:13.  
Other REC Limits:N/K  
OSHA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:DIETHYLENE GLYCOL ETHYL ETHER ACETATE; (DIETHYLENE GLYCOL  
ETH ETHER ACET)  
CAS:112-15-2  
RTECS #:KK8925000  
Minumum % Wt:7.  
Maxumum % Wt:13.  
Other REC Limits:N/K  
OSHA PEL:N/  
K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:DIPROPYLENE GLYCOL MONOMETHYL ETHER; (DIPROPYL GLYCOL MONO  
METH ETHER)  
CAS:34590-94-8  
RTECS #:JM1575000  
Minumum % Wt:7.  
Maxumum % Wt:13.  
Other REC Limits:N/K  
OSHA PEL:600 MG/M3;100 PPM  
OSHA STEL:N/K  
ACGIH TLV:606 MG/M3;100 PPM  
ACGIH STEL:909 MG/M3;150 PPM

Ingred Name:1-METHOXY-2-PROPYL ACETATE; (PROP GLYCOL MONO METHYL ETHER  
ACE)  
CAS:108-65-6  
RTECS #:AI8925000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
Other REC Limits:N/K  
OSHA PEL:N/K

OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:SELENIUM  
CAS:7782-49-2  
RTECS #:VS7700000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:N/K  
OSHA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:0.2 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:BARIUM SULFATE  
CAS:7727-43-7  
RTECS #:CR0600000  
Minumum % Wt:10.  
Maxumum % Wt:30.  
Other REC Limits:N/K  
OSHA PEL:15 MG/M3  
OSHA STEL:N/K  
ACGIH TLV:10 MG/M3  
ACGIH STEL:N/K

Ingred Name:CADMIUM  
CAS:7440-43-9  
RTECS #:EU9800000  
= Wt:8.99  
Other REC Limits:N/K  
OSHA PEL:see 1910.1027  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:EYES: MODERATELY IRRITATING WITH  
REDNESS, PAIN OR TEARING. PROLONGED CONTACT MAY CAUSE BURNS.  
SKIN: SLIGHTLY IRRITATING. FREQUENT OR PROLONGED

CONTACT MAY

IRRITATE AND CAUSE A RASH (DERMATITIS). REPEATED EXPOSURE MAY CAUSE ALLERGIC SKIN REACTIONS. ONCE AN ALLERGY DEVELOPS, EVEN AN EXPOSURE TO A VERY SMALL AMOUNT CAN TRIGGER AN ALLERGIC REACTION. INHALATION: SLIGHTLY IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. INGESTION: MAY CAUSE SEVERE VOMITING AND DIARRHEA. TARGET ORGANS: SKIN, EYES, LUNGS, MUCOUS MEMBRANES.

Explanation of Carcinogenicity: CADMIUM: OSHA REGULATED 29 CFR

1910.1027. IARC MONOGRAPHS,

SUPPLEMENT, VOLUME 58, PAGE 119, 1993:

GROUP 1. NTP 7TH ANNUAL REPORT ON CARCINOGENS, 1994: ANTICIPATED TO BE CARCINOGEN. HUMAN: LUNG, PROSTATE, RENAL SYSTEM EFFECTS.

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

First Aid: EYES: FLUSH W/ FLOWING WATER FOR AT LEAST 15 MINS. BLINK EYES FREQUENTLY. REPEAT FLUSHING IF BURNING/PAIN PERSISTS. GET IMMEDIATE MED ATTENTION. SKIN: RINSE IMMEDIATE W/ PLENTY OF WATER. THEN WASH IMMEDIATE W/ SOAP & WATER. REMOVE CONTAMINATED CLOTHING. DO NOT APPLY LOTIONS/CREAMS W/OUT ADVICE OF MEDICAL/POISON CONTROL. IF PROBLEMS PERSIST GET PROMPT MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GET IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION & CALL FOR EMERGENCY MEDICAL ASSISTANCE. INGESTION: DO NOT INDUCE VOMITING. GIVE SMALL AMOUNTS OF WATER. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSONS. CONTACT POISON CONTROL/GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method: SCC

Flash Point: =65.6C, 15

0.F

Extinguishing Media: USE CARBON DIOXIDE, FOAM OR DRY CHEMICAL.

Fire Fighting Procedures: WEAR SELF CONTAINED BREATHING APPARATUS (PRESSURE DEMAND NIOSH APPROVED) AND FULL FIRE FIGHTING PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard: NO UNUSUAL FIRE OR EXPLOSION HAZARDS.

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE.

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

Spill Release Procedures: REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION

ON AND/OR PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. PREVENT RUNOFF TO STORM SEWERS, DITCHES AND OTHER PATHWAYS TO SOIL AND WATERWAYS.

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

Handling and Storage Precautions:WARNING! HARMFUL IF SWALLOWED. COMBUSTIBLE LIQUID AND VAPOR. AVOID BREATHING FUMES. DO NOT SPLASH OR SPILL. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE CONTAINERS UPRIGHT. KEEP AWAY FROM HEAT AND FLAME.

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

Respiratory Protection:NO RESPIRATOR IS REQUIRED IF INGREDIENT EXPOSURE LIMITS ARE NOT EXCEEDED. A NIOSH APPROVED (29 CFR 1910.134 USA DEPT. OF LABOR), AIR PURIFYING, HALF-FACE RESPIRATOR WITH THE APPROPRIATE CARTRIDGE SHOULD BE USED IF EXPOSURE LIMITS ARE EXCEEDED.

Ventilation:USE LOCAL EXHAUST VENTILATION.

Protective Gloves:WEAR CHEMICAL RESISTANT RUBBER GLOVES.

Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:WEAR CHEMICAL RESISTANT RUBBER APRON. A SAFETY SHOWER AND EYE WASH STATION (MEETING ANSI DESIGN CRITERIA - ) SHOULD BE WITHIN REASONABLE DISTANCE OF THE WORK AREA.

Supplemental Safety and Health

WASTE DISPOSAL METHOD: RECYCLING; (3) BURNING FOR ENERGY RECOVERY/INCINERATION; (4) TREATMENT. OTHER INFO: REVISION DATE: 10-20-1997. REVISION SECTION/REASON: SECTION 1/PRODUCT NAME,

GENERAL USE CHANGE.

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

Boiling Pt.=173.9C, 345.F

Volatile Org Content %:28

Spec Gravity:1.30

Appearance and Odor:RED LIQUID WITH MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS.

Stability Condition to Avoid:EXTREME TEMPERATURES.

Hazardous Decomposition Products:NONE.

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===== Toxicological Information =====

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Toxicological Information: EYES: CONJ IRRIT & REDNESS. MAY CAUSE CORNEAL DMG. SKIN: SLIGHT IRRIT. ABSORPTION OF TOX AMTS THRU SKIN IS UNLIKELY UNDER ORDINARY CNDTNS OF INDUS USE. EMETIC EFTS POSS DUE TO CADMIUM CONTENT. CAD MIUM IS VERY POORLY ABSORBED FROM GI TRACT. INHAL: MINOR IRRIT OF MUC MEMBS & UPPER RESP TRACT. SYSTEMIC TOX IS VERY UNLIKELY UNDER ORDINARY CNDTNS OF INDUS USE. GLYCOL ETHER IN THIS PROD DOES NOT CAUSE ADVERSE EFTS ON MALE/FEMALE REPRO S

YS. INGEST: SYSTEMIC EFTS ARE UNLIKELY UNLESS TAKEN IN MASSIVE AMTS. ACCIDENTAL INGEST OF MORE THAN ONE OUNCE SHOULD BE REFERRED FOR MED EVALUATION. (OTHER INFO)

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Ecological Information  
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Ecological: DEXTER HAS NOT CONDUCTED SPECIFIC STUDIES ON THE ECO TOXICITY OR ENVIRONMENTAL FATE OF THIS PRODUCT. COMMONLY AVAILABLE DATA ON CERTAIN INGREDIENTS INDICATE THAT ACUTE OR CHRONIC EFFECTS COULD RESULT FROM UNCONTROLLED RELEASES TO SOIL, GROUND WATER, STORM WATERS OR AIR. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT UNCONTROLLED RELEASES. PROMPT CONTAINMENT AND CLEAN-UP SHOULD BE PERFORMED IF RELEASES DO OCCUR. SEE ACCIDENTAL RELEASE MEASURES.

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Disposal Considerations  
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Waste Disposal Methods: LEGAL DISPOSITION OF WASTES IS RESPONSIBILITY OF OWNER/GENERATOR OF WASTE. APPLIC FED, STATE &/OR LOC REGS MUST BE FOLLOWED DURING TREATMENT, STOR/DISP OF WASTE CONTAINING THIS PROD.

IT IS REC THAT THE FOLLOWING PRIORITY HIERARCHY BE USED WHEN SELECTING DISP METH: (1) REUSE/REINTRODUCTION INTO PROC ESS; (2) RECLAMATION, REGENERATION/ (SUP DAT)

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MSDS Transport Information  
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Transport Information: DOT/IATA PROPER SHIPPING NAME: INK MATERIALS. DOT/IATA HAZARD CLASS: NOT REGULATED. DOT/IATA UN OR NA NUMBER: NOT REGULATED. DOT/IATA PACKING GROUP: NOT REGULATED. DOT/IATA LABEL: NOT REGULAT

ED. DOT/IATA PLACARD: NOT REGULATED.  
INTERNATIONAL TRANSPORTATION EMERGENCY TELEPHONE NUMBER:  
1-703-527-3887.

===== Regulatory Information =====

SARA Title III Information:COMPONENTS EPOXY RESIN AND DIPROPYL GLYC  
MONO M ARE SUBJECT TO THE FOLLOWING: ENVIRONMENTAL LIST: 311/312  
SARA PHY/HEA HAZ (40CFR370.40). COMPONENTS BISPHENOL A, DIETHYLENE  
GLYC ETH, PROP GLY MONO ME THYL, SELENIUM, BARIUM SULFATE AND  
SELENIUM ARE SUBJECT TO THE FO

LLOWING: ENVIRONMENTAL LIST: 311/312

SARA PHY/HEA HAZ (40CFR370.40), 313 SARA TOXIC CHEM (40CFR372.65).

Federal Regulatory Information:SELENIUM AND CADMIUM ARE SUBJECT TO THE  
FOLLOWING: ENVIRONMENTAL LIST: CERCLA HAZARDOUS SUBSTANCES. BEFORE  
USE THIS PRODUCT MUST BE MIXED WITH ANOTHER DEXTER PRODUCT. TO  
OBTAIN VOC DATA ON MIXTURE CAL L 1-818-968-6511 OR FAX  
1-818-336-0526.

State Regulatory Information:COMPONENT CADMIUM IS SUBJECT TO THE  
FOLLOWING: ENVIRONMENTAL LIST: CALI

FORNIA PROP 65. CALIFORNIA

PROPOSITION 65: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE  
STATE OF CALIFORNIA TO CAUSE CANCER.

===== Other Information =====

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