

# MATERIAL SAFETY DATA SHEET

MSDS Name: EPOWELD 3243 PART A  
MSDS Number: 03243-1  
Version Number: H  
MSDS Date: JUN-22-2005  
Page Number: 1 of 6

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## SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: EPOWELD 3243 PART A  
Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPI:

Company Identification: ROYAL ADHESIVES & SEALANTS LLC  
600 CORTLANDT STREET  
BELLEVILLE NJ 07109-3384

Contact: BRUCE WEINMAN  
Telephone/Fax: (973) 751-3000 (973) 751-8407  
Emergency Phone (24 Hour): ENVIRONMENTAL SPECIALIST  
(973) 751-3000  
Chemtrec (24 Hour): (800) 424-9300  
Preparer: B. WEINMAN  
ENVIRONMENTAL SPECIALIST

Product Class: EPOXY  
Trade Name: EPOWELD 3243 PART A  
Product Code: 03243-1

## SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients CAS Number

EPOXY RESIN 25068-38-6

GROUND LIMESTONE TRADE SECRET

\*\*\* ALL Ingredients in this product are listed in the T.S.C.A. Inventory

## SECTION III - HAZARDS IDENTIFICATION

### EYE CONTACT:

PRODUCT IS MODERATELY IRRITATING TO THE EYES.

### SKIN CONTACT:

PRODUCT IS MODERATELY IRRITATING TO THE SKIN. MAY CAUSE SKIN SENSITIZATION. SKIN SENSITIZATION MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

### INHALATION:

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BECAUSE OF ITS LOW VOLATILITY THIS PRODUCT IS NOT LIKELY TO BE AN INHALATION HAZARD.

## INGESTION:

THIS PRODUCT IS CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY.

## AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

## HEALTH HAZARD INFORMATION:

### OTHER HEALTH INFORMATION (EPOXY RESIN):

CHRONIC STUDIES: RECENT 2 YEAR BIOASSAYS IN MICE EXPOSED BY THE DERMAL ROUTE TO EPOXY RESIN, THE DIGLYCIDYL ETHER OF BISPHENOL A (DGBPA), OR TO RESINS PREDOMINANTLY OF DGBPA HAVE YIELDED VERY LIMITED EVIDENCE OF WEAK CARCINOGENICITY. DGBPA IS A COMPONENT OF THE RESIN IN THIS PRODUCT. THE AUTHORS OF THIS WORK CONCLUDED THAT THE RENAL TUMOR EVIDENCE WITH THIS RESIN "WAS OF NO BIOLOGICAL SIGNIFICANCE" AND THAT THE RESIN "IS NOT A SYSTEMIC CARCINOGEN WHEN APPLIED TO THE DORSAL SKIN OF CF 1 MICE." IARC CONCLUDED THAT DGBPA WAS NOT CLASSIFIABLE AS A CARCINOGEN (IARC GROUP 3) BASED ON THE FOLLOWING: HUMAN AND ANIMAL EVIDENCE BOTH INADEQUATE.

MUTAGENICITY: BOTH THE RESIN AND DGBPA, HAVE PROVED TO BE INACTIVE WHEN TESTED BY IN VIVO MUTAGENICITY ASSAYS. THEY HAVE BOTH SHOWN ACTIVITY BY THE IN VITRO MICROBIAL MUTAGENICITY SCREENING AND HAVE BOTH PRODUCED CHROMOSOMAL ABERRATIONS IN CULTURED RAT LIVER CELLS. THE SIGNIFICANCE OF THIS INFORMATION TO MAN IS UNKNOWN.

## SECTION IV - FIRST AID MEASURES

### EYE CONTACT:

FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION.

### SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. LAUNDRY CONTAMINATED CLOTHING. DESTROY LEATHER ARTICLES INCLUDING SHOES.

### INHALATION:

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REMOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET IMMEDIATE MEDICAL ATTENTION.  
INGESTION:  
DO NOT INDUCE VOMITING. GET MEDICAL ADVICE.

## SECTION V - FIRE-FIGHTING MEASURES

Flammability Class: IIIB  
Flash Range: Not Available  
Pensky-Martens Closed Cup ASTM D 93 >400F  
Explosive Range: Not Available

### FIRE-FIGHTING MEASURES:

USE WATER FOG, DRY CHEMICAL, FOAM, CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL FIRE-EXPOSED CONTAINERS. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND PROVIDE PROTECTION TO THE PEOPLE ATTEMPTING TO STOP THE LEAK. USE FULL TURNOUT GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS (SCBA). FIRE EXPOSED CONTAINERS MAY BUILD PRESSURE AND BURST.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

### SPILLS:

SHUT OFF ALL IGNITION SOURCES AND DIKE SPILL TO CONTAIN AND PREVENT ENTRY INTO SEWERS OR WATER SOURCES. ABSORB SPILLED MATERIAL AND PLACE IN CLOSED CONTAINER FOR DISPOSAL. CONTROLLED INCINERATION. HANDLE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGULATIONS.

## SECTION VII - HANDLING AND STORAGE

### STORAGE CONDITIONS:

STORE IN A COOL, DRY PLACE. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

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|                  | ACGIH TLV     | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
|------------------|---------------|-------------|------------|-----------|----------|
| EPOXY RESIN      | N/est         | N/est       | N/est      | N/est     | N/est    |
| GROUND LIMESTONE | 10.0000 mg/M3 | N/est       | N/est      | N/est     | N/est    |

## PERSONAL PROTECTIVE EQUIPMENT:

IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL OR VENTILATION, WEAR A RESPIRATOR APPROVED BY NIOSH/MSHA WHENEVER EXPOSED TO FUMES OR VAPORS. COMPLY WITH OSHA 1910.134 (CFR). SELF-CONTAINED BREATHING APPARATUS IN HIGH CONCENTRATIONS. LOCAL EXHAUST IS RECOMMENDED. USE CHEMICAL RESISTANT PROTECTIVE GLOVES, CHEMICAL SPLASH GOGGLES. CHEMICAL RESISTANT PROTECTIVE CLOTHING TO MINIMIZE EXPOSURE; CHEMICAL SPLASH APRON, FULL FACE SHIELD. EYE WASH STATION AND SAFETY SHOWER SHOULD BE AVAILABLE FOR EMERGENCY USE.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: LIQUID  
Appearance/Color: OFF WHITE  
Boiling Range: Not Available  
Vapor Pressure (mmHg): Not Available  
Melting Point: Not Applicable  
Evaporation Rate: Unavailable  
  
% Volatile: Not Available  
Specific Gravity: 1.38

## SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable  
Hazardous Polymerization: Hazardous polymerization will not occur

### REACTIVITY:

#### INCOMPATIBILITY:

OXIDIZING AGENTS, STRONG MINERAL ACIDS, STRONG LEWIS ACIDS, BASES, MERCAPTANS, AMINES.

#### CONDITIONS TO AVOID:

HIGH TEMPERATURES.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

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CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, ACIDS.

## SECTION XI - TOXICOLOGICAL INFORMATION

| Lethal Dose Information (ppm) | Oral | Skin | Inhale | LC50 |
|-------------------------------|------|------|--------|------|
|-------------------------------|------|------|--------|------|

TOXICOLOGICAL INFORMATION:  
NO INFORMATION IS AVAILABLE.

## SECTION XII - ECOLOGICAL INFORMATION

NO INFORMATION IS AVAILABLE.

## SECTION XIII - DISPOSAL CONSIDERATIONS

### RCRA CONSIDERATIONS:

THIS PRODUCT IF DISPOSED OF IN THE PURCHASED FORM IS NOT CONSIDERED RCRA HAZARDOUS.

## SECTION XIV - TRANSPORT INFORMATION

|                  |                     |
|------------------|---------------------|
| UN Number        |                     |
| UN Pack Group    |                     |
| UN Class         |                     |
| ICAO/IATA Class  | NOT REGULATED       |
| IMDG Class       | NOT REGULATED       |
| Shipping Name    | PLASTIC LIQUID, NOS |
| ADR/RID Class    | NOT REGULATED       |
| DOT Hazard Class |                     |
| Technical Name   |                     |

## SECTION XV - REGULATORY INFORMATION

### TSCA STATUS:

ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

### SCHEDULE B NUMBER:

3907.30.0000 IS THE SCHEDULE B EXPORT CLASSIFICATION NUMBER.

## SECTION XVI - OTHER INFORMATION

DISCLAIMER:

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ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, ROYAL ADHESIVES & SEALANTS LLC MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL ROYAL ADHESIVES & SEALANTS LLC BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

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## SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: EPOWELD 3243 PART B  
Hazard Rating: Health: 3 Fire: 1 Reactivity: 0 PPI:

Company Identification: ROYAL ADHESIVES & SEALANTS LLC  
600 CORTLANDT STREET  
BELLEVILLE NJ 07109-3384

Contact: BRUCE WEINMAN  
Telephone/Fax: (973) 751-3000 (973) 751-8407  
Emergency Phone (24 Hour): ENVIRONMENTAL SPECIALIST  
(973) 751-3000  
Chemtrec (24 Hour): (800) 424-9300  
Preparer: B. WEINMAN  
ENVIRONMENTAL SPECIALIST

Product Class: POLYAMIDE  
Trade Name: EPOWELD 3243 PART B  
Product Code: 03243-2

## SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients CAS Number

TRADE SECRET

\*\*\* ALL Ingredients in this product are listed in the T.S.C.A. Inventory

## SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT:

PRODUCT MAY BE EXTREMELY IRRITATING TO THE EYES AND MAY CAUSE SEVERE DAMAGE INCLUDING BLINDNESS. VAPORS MAY BE IRRITATING.

SKIN CONTACT:

MAY BE MILDLY IRRITATING TO THE SKIN. PRODUCT MAY CAUSE SKIN SENSITIZATION. AVOID SKIN CONTACT.

INHALATION:

VAPORS MAY CAUSE SEVERE RESPIRATORY IRRITATION. AVOID PROLONGED OR REPEATED INHALATION. ADVERSE RESPIRATORY EFFECTS INCLUDE COUGH,

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TIGHTNESS OF CHEST AND SHORTNESS OF BREATH.

INGESTION:

MAY PRODUCE IRRITATION OF MOUTH AND THROAT AND THE GASTROINTESTINAL TRACT.

OTHER HEALTH HAZARD INFORMATION:

PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

A COMPONENT OF THIS PRODUCT HAS BEEN FOUND TO BE A DIRECT ACTING MUTAGEN IN THE AMES TEST. IT GAVE POSITIVE RESULTS WITH AND WITHOUT ACTIVATION.

A COMPONENT OF THIS PRODUCT WAS FETOTOXIC AND TERATOGENIC WHEN FED TO RATS AT 0.83% AND 1.67% OF DIET. WHEN APPLIED DERMALLY TO THE SKIN OF PREGNANT GUINEA PIGS, THERE WAS A 90% ABORTION RATE OR DEATH OF FETUS WITH SECONDARY COPPER DEFICIENCY, RESULTING FROM THE CHELATING ACTIVITY OF THE COMPONENT.

## SECTION IV - FIRST AID MEASURES

EYE CONTACT:

FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER EYE LIDS. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:

WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. LAUNDRER CLOTHING, DISCARD LEATHER CLOTHING.

INHALATION:

REMOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. ADMINISTER 3-4 GLASSES OF MILK OR WATER. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF VICTIM IS DROWSY, CONVULSING, OR UNCONSCIOUS.

## SECTION V - FIRE-FIGHTING MEASURES

Flammability Class

IIIB

Flash Range:

Not Available

Pensky-Martens Closed Cup ASTM D 93  
>400

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Explosive Range: Not Available

## **FIRE-FIGHTING MEASURES:**

USE WATER FOG, DRY CHEMICAL, FOAM, CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL FIRE-EXPOSED CONTAINERS. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND PROVIDE PROTECTION TO THE PEOPLE ATTEMPTING TO STOP THE LEAK. USE FULL TURNOUT GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS (SCBA). DELAYED LUNG DAMAGE (PULMONARY EDEMA) CAN BE EXPERIENCED AFTER EXPOSURE TO COMBUSTION PRODUCTS, SOMETIMES HOURS AFTER THE EXPOSURE.

## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

### **SPILLS:**

SHUT OFF ALL IGNITION SOURCES AND DIKE SPILL TO CONTAIN AND PREVENT ENTRY INTO SEWERS OR WATER SOURCES. ABSORB SPILLED MATERIAL AND PLACE IN CLOSED CONTAINER FOR DISPOSAL. CONTROLLED INCINERATION. HANDLE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGULATIONS.

## **SECTION VII - HANDLING AND STORAGE**

### **STORAGE CONDITIONS:**

STORE IN A COOL, DRY PLACE. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

## **SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

| Occupational Exposure Limits |             |            |           |          |
|------------------------------|-------------|------------|-----------|----------|
| ACGIH TLV                    | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
| TRADE SECRET                 |             |            |           |          |
| N/est                        | N/est       | N/est      | N/est     | N/est    |

### **PERSONAL PROTECTIVE EQUIPMENT:**

IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL OR VENTILATION, WEAR A RESPIRATOR APPROVED BY NIOSH/MSHA WHENEVER EXPOSED TO FUMES OR VAPORS. COMPLY WITH OSHA 1910.134 (CFR). SELF-CONTAINED BREATHING APPARATUS IN HIGH CONCENTRATIONS. LOCAL EXHAUST IS RECOMMENDED. USE CHEMICAL RESISTANT PROTECTIVE GLOVES, CHEMICAL SPLASH GOGGLES.

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CHEMICAL RESISTANT PROTECTIVE CLOTHING TO MINIMIZE EXPOSURE;  
CHEMICAL SPLASH APRON, FULL FACE SHIELD. EYE WASH STATION AND  
SAFETY SHOWER SHOULD BE AVAILABLE FOR EMERGENCY USE.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: LIQUID  
Appearance/Color: AMBER  
Odor: AMINE  
Boiling Range: Not Available  
Vapor Pressure (mmHg): Not Available  
Melting Point: Not Applicable  
Evaporation Rate: Unavailable  
  
% Volatile: Not Available  
Specific Gravity: 0.97  
VOC: 4.59 %\*

OTHER INFORMATION:  
\*VOC CONTENT WAS TESTED VIA EPA METHOD 24

## SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable  
Hazardous Polymerization: Hazardous polymerization will not occur

### REACTIVITY:

INCOMPATIBILITY:  
OXIDIZING AGENTS, CLEANING SOLUTIONS SUCH AS CHROMERGE/AQUA REGIA.  
CONDITIONS TO AVOID:  
HIGH TEMPERATURES.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, AMMONIA.

## SECTION XI - TOXICOLOGICAL INFORMATION

| Lethal Dose Information (ppm) | Oral | Skin | Inhale | LC50 |
|-------------------------------|------|------|--------|------|
|-------------------------------|------|------|--------|------|

TOXICOLOGICAL INFORMATION:  
NO INFORMATION IS AVAILABLE.

## SECTION XII - ECOLOGICAL INFORMATION

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NO INFORMATION IS AVAILABLE.

## SECTION XIII - DISPOSAL CONSIDERATIONS

### RCRA CONSIDERATIONS:

THIS PRODUCT IF DISPOSED OF IN THE PURCHASED FORM IS NOT CONSIDERED RCRA HAZARDOUS.

## SECTION XIV - TRANSPORT INFORMATION

UN Number  
UN Pack Group  
UN Class  
ICAO/IATA Class: NOT REGULATED  
IMDG Class: NOT REGULATED  
Shipping Name: PLASTIC LIQUID, NOS  
ADR/RID Class: NOT REGULATED  
DOT Hazard Class  
Technical Name

### TRANSPORTATION:

#### TRANSPORTATION INFORMATION:

THIS PRODUCT WHEN TRANSPORTED IS NOT REGULATED VIA GROUND, SEA OR AIR TRANSPORTATION MODES.

## SECTION XV - REGULATORY INFORMATION

### TSCA STATUS:

ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

#### INVENTORY STATUS:

ALL THE COMPONENT(S) OF THIS PRODUCT HAVE BEEN FOUND ON THE FOLLOWING INVENTORIES:

UNITED STATES  
CHINA

ALL THE COMPONENT(S) OF THIS PRODUCT HAVE NOT YET BEEN IDENTIFIED ON THE FOLLOWING INVENTORIES:

EUROPE  
CANADA

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AUSTRALIA  
KOREA  
JAPAN  
PHILIPPINES

## SECTION XVI - OTHER INFORMATION

### DISCLAIMER:

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, ELEMENTIS PERFORMANCE POLYMERS MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL ELEMENTIS PERFORMANCE POLYMERS BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.