MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 1 of 6

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: Hazard Rating:	EPOWELD 8200 PART A Health: 2 Fire: 1 Reactivity: 0 PPI:
Company Identification:	ROYAL ADHESIVES & SEALANTS LLC 600 CORTLANDT STREET BELLEVILLE NJ 07109-3384
Contact: Telephone/Fax: Emergency Phone (24 Hour): Chemtrec (24 Hour):	BRUCE WEINMAN (973) 751-3000 (973) 751-8407 ENVIRONMENTAL SPECIALIST (973) 751-3000 (800) 424-9300
Preparer	B. WEINMAN ENVIRONMENTAL SPECIALIST
Product Class Trade Name Product Code	EPOXY EPOWELD 8200 PART A 08200-1

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients

EPOXY RESIN

CAS Number

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:

MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 2 of 6

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 (DGEBPA), OR TO RESINS PREDOMINANTLY OF DGEBPA HAVE YIELDED VERY LIMITED EVIDENCE OF WEAK CARCINOGENICITY. DGEBPA IS A COMPONENT OF THE RESIN IN THIS PRODUCT. THE AU-THORS 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 DGEBPA WAS NOT CLASSIFIABLE AS A CARCINOGEN (IARC GROUP 3) BASED ON THE FOL-LOWING: HUMAN AND ANIMAL EVIDENCE BOTH INADEQUATE.

MUTAGENICITY: BOTH THE RESIN AND DGEBPA, HAVE PROVED TO BE INACTIVE WHEN TESTED BY IN VIVO MUTAGENICITY ASSAYS. THEY HAVE BOTH SHOWN ACTIVITY BY THE IN VITRO MICROBIAL MUTAGEN-ICITY SCREENING AND HAVE BOTH PRODUCED CHROMOSOMAL ABERRA-TIONS 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. LAUNDER CONTAMINATED CLOTHING. DESTROY LEATHER ARTICLES INCLUDING SHOES.

INHALATION:

MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 3 of 6

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

MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 4 of 6 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

Boiling Range:	Not Available
Vapor Pressure (mmHg):	Not Available
Melting Point:	Not Applicable
Evaporation Rate:	Unavailable
% Volatile	Not Available
Specific Gravity:	1.39

SECTION X - STABILITY AND REACTIVITY

Stability:This product is stableHazardous 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: CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, ACIDS.

MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 5 of 6

SECTION XI - TOXICOLOGICAL INFORMATION

Lethal Dose Information (ppm) Oral Skin Inhale LC50

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 IMDG Class Shipping Name ADR/RID Class DOT Hazard Class Technical Name

NOT REGULATED NOT REGULATED PLASTIC LIQUID, NOS NOT REGULATED

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: 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

MSDS Name: EPOWELD 8200 PART A MSDS Number: 08200-1 Version Number I MSDS Date: JUN-29-2005 Page Number: 6 of 6

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 HERE-UNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 1 of 6

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: Hazard Rating:	EPOWELD 8200 PART B Health: 3 Fire: 2 Reactivity: 0 PPI:
Company Identification:	ROYAL ADHESIVES & SEALANTS LLC 600 CORTLANDT STREET BELLEVILLE NJ 07109-3384
Contact: Telephone/Fax: Emergency Phone (24 Hour):	BRUCE WEINMAN (973) 751-3000 (973) 751-8407 ENVIRONMENTAL SPECIALIST (973) 751-3000
Chemtrec (24 Hour): Preparer	(800) 424-9300 B. WEINMAN ENVIRONMENTAL SPECIALIST
Product Class Trade Name Product Code	POLYAMINE MIXTURE EPOWELD 8200 PART B 08200-2

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients

CAS Number

POLYAMIDE

TRADE SECRET

DIMETHYLAMINOPROPYLAMINE 109-55-7 *** 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 SERIOUS DAMAGE INCLUDING BLINDNESS. VAPORS MAY BE IRRITATING. SKIN CONTACT: PRODUCT MAY BE IRRITATING TO THE SKIN. PRODUCT MAY CAUSE SKIN SENSITIZATION. INHALATION:

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 2 of 6

SEVERE RESPIRATORY TRACT IRRITANT. MAY CAUSE RESPIRATORY EFFECTS SUCH AS COUGH, TIGHTNESS OF CHEST OR SHORTNESS OF BREATH.

INGESTION:

MAY CAUSE 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.

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. LAUNDER 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	IIIA			
Flash Range:	Not Available			
-	Pensky-Martens Closed Cup ASTM D 93			
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

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 3 of 6

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. KEEP CONTAINER CLOSED EXCEPT WHEN TRANSFERRING MATERIAL. GROUND AND BOND ALL EQUIPMENT.

DO NOT REUSE CONTAINERS. TOXIC AND EXPLOSIVE RESIDUES MAY REMAIN IN CONTAINERS. DO NOT APPLY AIR PRESSURE, PUNCTURE OR WELD ON OR NEAR CONTAINERS.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits						
	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL	
POLYAMIDE						
	N/est	N/est	N/est	N/est	N/est	
DIMETHYLAM	IINOPROPYLAMIN		,	,		
	N/est	N/est	N/est	N/est	N/est	
	ROTECTIVE EQU					
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;						
				/		

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 4 of 6

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: 0.96

SECTION X - STABILITY AND REACTIVITY

Stability:This product is stableHazardous 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

NO INFORMATION IS AVAILABLE.

SECTION XIII - DISPOSAL CONSIDERATIONS

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 5 of 6

RCRA CONSIDERATIONS: PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH FEDERAL AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION

UN Number UN Pack Group UN Class ICAO/IATA Class IMDG Class Shipping Name ADR/RID Class DOT Hazard Class Technical Name

NOT REGULATED NOT REGULATED PLASTIC LIQUID, NOS NOT REGULATED

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 CANADA (DSL)

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

EUROPE JAPAN AUSTRALIA KOREA CHINA PHILIPPINES

SECTION XVI - OTHER INFORMATION

DISCLAIMER:

MSDS Name: EPOWELD 8200 PART B MSDS Number: 08200-2 Version Number H MSDS Date: JUL-01-2005 Page Number: 6 of 6

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 HERE-UNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.