



# SAFETY DATA SHEET

## ROYAL METALLIC PART A

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ROYAL METALLIC RESIN PART A  
PRODUCT CODES: EPOXY 2U, LLC  
MANUFACTURER: EPOXY 2U, LLC  
DIVISION: FLOOR COATING  
ADDRESS: 4602 S 36TH ST, PHOENIX, AZ 85040  
PRODUCT USE: FLOOR COATING  
PREPARED BY: EPOXY 2U, LLC.

CHEMICAL SPILL  
EMERGENCY PHONE: 800-255-3924  
CHEMTEL PHONE:  
OTHER CALLS:  
FAX PHONE:  
CHEMICAL NAME:  
CHEMICAL FAMILY:  
CHEMICAL FORMULA:



### SECTION 2: HAZARDS IDENTIFICATION

EYES:	Minor transient irritation. No corneal injury likely.
SKIN CONTACT:	May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.
SKIN ABSORPTION:	A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
INGESTION:	The LD50 for skin absorption in rabbits is 20,000 mg/kg.
INHALATION:	Low acute oral toxicity; LD50 (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure. Vapors are unlikely due to physical properties. Not a problem unless heated to a high temperature.
OTHER EFFECTS:	Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	WGT%	CAS#
Reaction products of Epichlorohydrin and Bisphenol A Approximately 95% 25085-99-8	Approximately 95%	25085-99-8
Benzyl Alcohol	Approximately 5%	100-51-6

### SECTION 4: FIRST AID MEASURES

EYES:	Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.
SKIN:	Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.
INGESTION:	Low in toxicity. No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
INHALATION:	Remove to fresh air if effect occurs. Consult medical personnel.
NOTES TO PHYSICIANS:	No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.



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### SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME):

FLASH POINT:

METHOD USED:

NFPA HAZARD RATING:

UPPER LIMITS: N/A LOWER LIMITS: N/A

245°F (118.33°C)

PMCC

4 = EXTREME; 3 = HIGH; 2 = MODERATE; 1 = SLIGHT; 0 = INSIGNIFICANT

#### NFPA HAZARD

#### CLASSIFICATION:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

OTHER: N/A

#### HMIS HAZARD

#### CLASSIFICATION:

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

EXTINGUISHING MEDIA:

FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Foam, CO2, Dry Chemical or Dry sand

Wear positive pressure SCBA

None

### SECTION 6: ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP: Soak up in absorbent material and collect in suitable containers. Residual may be removed using steam or hot soapy water.

### SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good room ventilation usually adequate for most operations

RESPIRATORY PROTECTION: None normally needed.

EYE PROTECTION:

EYE PROTECTION: Use chemical goggles.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Straw colored liquid.

ODOR: Faint

PHYSICAL STATE: Liquid

BOILING POINT: F: NA (C: N/A)

VAPOR PRESSURE (MMHG): F: NA (C: N/A)

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H2O = 1): 1.12-1.14

FLAMMABILITY: not flammable



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### SECTION 10: STABILITY AND REACTIVITY

**CONDITIONS TO AVOID (STABILITY):**

INCOMPATIBILITY (MATERIAL TO AVOID):

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

HAZARDOUS POLYMERIZATION:

Excess heating over long periods of time degrades the resin.

Base.

The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken. Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

### SECTION 11: TOXICOLOGICAL INFORMATION

**11.0 TOXICOLOGICAL INFORMATION**

11.1 Likely routes of exposure: N/A

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion: Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Skin Contact: Prolonged or widespread skin contact may result in absorption of harmful amounts.

Irritation:

Skin: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage. Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes: May cause pain disproportionate to the level of irritation to eye tissues. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Inhalation: May cause allergic respiratory response. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

Carcinogen: This product contains no materials that are reported as known or suspect carcinogens in levels above 0.1%.

Mutagen: This product contains no materials that are reported as known or suspect mutagens in levels above 0.1%.

Reproductive Hazard: This product contains no materials that are known or suspected of causing a reproductive hazard in levels above 0.1%.

11.4 NUMERICAL MEASURES OF TOXICITY: N/A

### SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No information available.

12.2 Persistence and degradability: Not readily biodegradable (by OECD criteria).

12.3 Bioaccumulative potential: Because of the product's consistency and low water solubility, bioavailability is improbable.

12.4 Mobility in soil: The substance will not evaporate into the atmosphere from the water surface.

12.5 Other adverse effects: Do not discharge product into the environment without control. The product has not been test-

### SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 DISPOSAL METHODS:**

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely land filled. Contaminated packaging: empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.

**WASTE DISPOSAL METHOD:** Burn in adequate incinerator or bury in an approved landfill; in accordance with local, state and federal regulations.



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### SECTION 14: TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA (Cargo)
UN Number	2735	2735	2735
UN Proper Shipping Name	Amines, liquid, corrosive, n.o.s. (Polyamine)	Amines, liquid, corrosive, n.o.s. (Polyamine)	Amines, liquid, corrosive, n.o.s. (Polyamine)
Hazard Classes	8	8	8
Packing Group	III	III	III

### SECTION 15: REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS:

##### TSCA (TOXIC SUBSTANCE CONTROL ACT):

The components of this product are contained on the chemical substance inventory list.

##### CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT	RQ
NONE	N/A	N/A	N/A

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
NONE	N/A	N/A

##### 311/312 HAZARD CATEGORIES:

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

##### EPA HAZARD CLASSIFICATIONS:

ACUTE HAZARD	CHRONIC HAZARD	FIRE HAZARD
NO	NO	NO
PRESSURE HAZARD	REACTIVE HAZARD	
NO	NO	

##### 311/312 HAZARD CATEGORIES:

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
NONE	N/A	N/A

##### SECTION 15 NOTES:

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449. The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

### SECTION 16: OTHER INFORMATION

The information herein is given in good faith, but no warranty expressed or implied is made. Royal Epoxy urges suppliers and users of this product to evaluate its suitability and compliance with local regulations as Royal Epoxy cannot foresee the nature of the final application nor final location of usage.