

# MATERIAL SAFETY DATA SHEET

## Republic Powdered Metals, Inc.

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## NPCA - HMIS RATING METHOD

HEALTH	1
FIRE	3
REACTIVITY	0

### I. PRODUCT IDENTIFICATION

MSDS # 9122-A

TRADE NAME: RAMUC EP HI BUILD PART A

SYNONYMS: High Performance Epoxy Mastic-Base Component

SHIPPING NAME -- U.S. DOT: Paint, 3, UN1263, PGIII (packaged in 5 gal. pails)  
Consumer Commodity, ORM-D [49CFR 173.150(c)] (packaged in 1 gal. ctns.)

IMDG: Paint, 3, UN1263, PGIII, FP80 F

IATA: Paint, 3, UN1263, PGIII

### II. INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	WEIGHT%	OSHA PEL	ACGIH TLV	SARA 313
Epoxy Resin	25068-38-6	<50	N/E	N/E	No
Xylene	1330-20-7	<15	100ppm	100ppm	Yes
Methyl Isobutyl Ketone	108-10-1	<5	50ppm	50ppm	Yes
Mineral Spirits	8052-41-3	<5	100ppm	100ppm	No

### III. PHYSICAL DATA

INITIAL BOILING POINT: 237°F

VAPOR DENSITY: Heavier than air

FREEZING POINT: N/A

APPEARANCE AND ODOR: Colored liquid,  
mild petroleum odor

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.27 - 1.52

SOLUBILITY IN WATER: Not soluble

pH: N/A

EVAPORATION RATE: Slower than ether

VOC: 340 g/l max.

### IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (Tag Closed Cup): 80°F

FLAMMABLE LIMITS IN AIR BY VOLUME- LEL 1.0%

EXTINGUISHING MEDIA: NFPA Class B extinguishers, carbon dioxide, dry chemical, or foam

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion. If water is used, fog nozzles are preferred.

UNUSUAL FIRE & EXPLOSIVE HAZARDS: Keep containers closed tightly. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.

SENSITIVITY TO STATIC DISCHARGE: Possible

SENSITIVITY TO IMPACT: N/A

### V. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid contact with strong oxidizing agents.

INCOMPATIBILITY: Incompatible with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: By open flame, carbon monoxide and carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

## VI. HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE - AVENUE OF ENTRY:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to Xylene in lab animals has been associated with liver abnormalities, kidney, lung, spleen, and eye damage, as well as anemia. Effects in humans have included liver and cardiac abnormalities. Overexposure to Methyl Isobutyl Ketone in lab animals has been associated with liver abnormalities and lung damage.

**EYES:** Causes irritation.

**SKIN:** Causes irritation. May lead to dermatitis with repeated overexposures. Epoxy resin may cause allergic skin reaction.

**INHALATION:** Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache, or nausea. Repeated overexposure may lead progressively to staggering gait, confusion, unconsciousness, and coma. Causes nose and throat irritation.

**SWALLOWING:** Causes gastrointestinal irritation, nausea, vomiting, and diarrhea.

**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm.

### FIRST AID:

**IF IN EYES:** Flush immediately with large amounts of water for at least 15 minutes. Notify a physician.

**IF ON SKIN:** Wash affected area with soap and water, remove contaminated clothing and wash before reuse. If allergy develops, contact a physician and have this information available.

**IF INHALED:** Remove from exposure, restore breathing, and notify a physician.

**IF SWALLOWED:** Do not induce vomiting. Keep person warm, quiet, and get medical attention. Aspiration of this material into the lungs can cause chemical pneumonitis which can be fatal.

## VII. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition, ventilate area, and remove with inert absorbent and non-sparking tools.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state, and federal regulations. Do not incinerate closed containers.

**PRECAUTIONS TO TAKE IN STORAGE AND HANDLING:** Do not store above 120°F. Store large quantities in buildings designed and protected for storage of NFPA Class I Flammable Liquid. Containers should be grounded when pouring. Empty containers may be hazardous.

**CAUTION: KEEP OUT OF THE REACH OF CHILDREN.**

## VIII. SAFE HANDLING AND USE INFORMATION

**RESPIRATORY PROTECTION:** Use NIOSH approved chemical cartridge respirator (TC23C) to remove solid airborne particles of overspray and organic vapors during spray application. In confined areas, use NIOSH approved supplied-air respirators or hoods (TC19C).

**VENTILATION:** Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**PROTECTIVE GLOVES:** Use gloves to prevent prolonged contact with skin.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

## IX. DISCLAIMER

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Republic or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

### DEFINITIONS

**HMIS** - Hazardous Materials Identification System

**DOT** - Department of Transportation

**PEL** - Permissible Exposure Limit

**LC 50** - Lethal Concentration

**RCRA** - Resource Conservation & Recovery Act

**T/S** - Trade Secret

**VOC** - Volatile Organic Compound

**CAS** - Chemical Abstracts Service

**TLV** - Threshold Limit Value

**LD 50** - Lethal Dose

**CFR** - Code of Federal Regulations

**N/A** - Not Available

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety & Health Administration

**NPCA** - National Paint & Coatings Association

**SARA** - Superfund Amendments & Reauthorization Act of 1986

**NIOSH** - National Institute for Occupational Safety & Health

**N/E** - Not Established.

**TRADE NAME:** RAMUC EP HI BUILD PART A

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