

# MATERIAL SAFETY DATA SHEET

## Republic Powdered Metals, Inc.

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## NPCA - HMIS RATING METHOD

HEALTH	2
FIRE	3
REACTIVITY	0
PERSONAL PROTECTION	G

### I. PRODUCT IDENTIFICATION

MSDS # 9081

TRADE NAME: RAMUC TYPE EP PART A

SYNONYMS: Paint

US DOT SHIPPING NAME: Paint, 3, UN1263, PGIII.

### II. HAZARDOUS INGREDIENTS

INGREDIENT/CAS#	OSHA PEL	ACGIH TLV	NUISANCE DUST*	LD50	LC50	SARA 302	SARA 313	WEIGHT LESS THAN
Xylene 1330-20-7	100 ppm	100 ppm	No		6700ppm/4hrs.	No	Yes	15%
MIBK 108-10-1	100 ppm	50 ppm	No	1600-3200mg/kg		No	Yes	15%
N-Butanol 71-36-3	50 ppm	N/E	No			No	Yes	7%
Butyl Glycidyl Ether 2426-08-6	N/E	25 ppm	No			No	No	7%
Color Pigment mixture	N/E	3.5mg/m <sup>3</sup>	Yes			No	No	40%

\*Only a dust hazard when removing dry coating.

### III. PHYSICAL DATA

INITIAL BOILING POINT: 139½F to 243½F

VAPOR DENSITY: Heavier than air

FREEZING POINT: N/A

APPEARANCE AND ODOR: White or colored paint with strong solvent odor.

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.42

SOLUBILITY IN WATER: Non-soluble

pH: N/A

EVAPORATION RATE: Faster than n-Butyl Acetate

VOC: 335 g/l (when mixed with Ramuc Type EP Part B)

### IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (Tag Closed Cup): 86½F

FLAMMABLE LIMITS IN AIR BY VOLUME-

LOWER: 1.0%

UPPER: 11.2%

EXTINGUISHING MEDIA: Alcohol foam, CO<sub>2</sub>, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire exposed containers, structures and project personnel.

UNUSUAL FIRE & EXPLOSIVE HAZARDS: Heat and fire conditions: Vapors form flammable/explosive mixtures in air. Vapors are heavy and may travel via ground, pit or sewer to ignition source and flash back. Open or closed containers may contain flammable or explosive vapors. Closed containers may explode when exposed to extreme heat or fire.

SENSITIVITY TO IMPACT: N/A

SENSITIVITY TO STATIC DISCHARGE: Possible

### V. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None

HAZARDOUS POLYMERIZATION: Will not occur. N/A

INCOMPATIBILITY: Strong oxidizing materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None.

## VI. HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE - AVENUE OF ENTRY:

**EYES:** Contact with eyes may cause transient corneal damage and conjunctival irritation.

**SKIN:** Prolonged/repeated contact may cause defatting action characterized by dryness, cracking, blistering or dermatitis.

**INHALATION:** May cause nausea, vomiting, cough and pulmonary irritation. Central nervous system depression characterized by headache, dizziness, nausea and confusion. Repeated inhalation may affect blood elements.

**SWALLOWING:** Aspiration of this product into the lungs may cause pneumonitis, pulmonary edema and hemorrhage. Ingestion may cause gastrointestinal disturbances.

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

### FIRSTAID:

**IF IN EYES:** Immediately flush eyes with large amounts of water for 15 minutes. Seek medical attention.

**IF ON SKIN:** Wash skin thoroughly with soap & water or waterless hand cleaner. If irritation persists, seek medical attention.

**IF INHALED:** Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical attention.

~~**IF SWALLOWED:** Immediately seek medical attention. Do not induce vomiting. Give 1 glass of milk, only if conscious.~~

## VII. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Stop leak if no risk is involved. Stay upwind. **SMALL SPILLS:** Take up with sand or other non-combustible absorbent material. Flush area with water. Ventilate area for at least 24 hours or until area has been declared safe. Dike large spills.

**WASTE DISPOSAL METHOD:** This product, when liquid, is a US EPA ignitable hazardous waste. Dispose of as an ignitable hazardous waste in accordance with local, state and federal regulations. When released as a waste, this material has a RQ value of 100 pounds.

**PRECAUTIONS TO TAKE IN STORAGE AND HANDLING:** Store in areas/buildings designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well shaded), dry-ventilated area. Protect from physical damage. Keep containers closed when not in use. Avoid storing next to strong oxidizing materials or strong acids. Maintain good housekeeping.

**OTHER PRECAUTIONS:** Ground and bond drums. Do not use pressure to empty drums. Uncontrolled spray application: Use complete skin and respiratory protection. Keep away from heat and open flame.

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

## VIII. SAFE HANDLING AND USE INFORMATION

**RESPIRATORY PROTECTION:** If ventilation does not maintain exposure below TLV(PEL), use MSHA/NIOSH approved units as per current 29 CFR1910.134 and manufacturers "instructions" and "warnings". If within OSHA protection factor, air purifying OV/filter units OK.

**VENTILATION:** Provide sufficient general or local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed spaces.

**PROTECTIVE GLOVES:** As required, industrial resistant flexible-type gloves.

**EYE PROTECTION:** Industrial safety glasses with side shields. Chemical goggles, if splashing is possible.

**OTHER PROTECTIVE EQUIPMENT:** Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

**HYGIENIC PRACTICES:** Wash exposed areas promptly and thoroughly after contact.

## 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 TYPE EP PART A

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