

MATERIAL SAFETY DATA SHEET

Republic Powdered Metals, Inc.

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NPCA - HMIS RATING METHOD

HEALTH	1
FIRE	0
REACTIVITY	0

I. PRODUCT IDENTIFICATION

MSDS # 9515
TRADE NAME: RAMUC ADC Standard
SYNONYMS: Paint
SHIPPING NAME -- U.S. DOT: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated

II. INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	WEIGHT%	OSHA PEL	ACGIH TLV	SARA 313
Silica*	1317-95-9	<15	10 mg/m ³	N/A	No
Ethylene Glycol	107-21-1	<5	125 mg/m ³	50 ppm	Yes
NON-HAZARDOUS COMPONENTS					
Titanium Dioxide*	13463-67-7	<15	N/A	5 mg/m ³	No
Calcium Carbonate*	1317-65-3	<15	N/A	N/A	No

*Nuisance dust hazard only when removing dry coating.

III. PHYSICAL DATA

INITIAL BOILING POINT: 212½F
VAPOR DENSITY: Heavier than air
FREEZING POINT: 32½F
APPEARANCE AND ODOR: White or colored viscous liquid, mild ammonia odor.

SPECIFIC GRAVITY (H₂O = 1): 1.33
SOLUBILITY IN WATER: Soluble
pH: 9-10
EVAPORATION RATE: Slower than n-Butyl Acetate
VOC: 190 g/l

IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (Tag Closed Cup): None
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.3% UPPER: 7.4%
EXTINGUISHING MEDIA: None known
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSIVE HAZARDS: May spatter when temperature exceeds boiling point.

V. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: None known.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Fire conditions may yield oxides of carbon.

CONDITIONS TO AVOID: None

VI. HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE - AVENUE OF ENTRY:

EYES: Direct liquid contact with eyes may cause mild irritation.

SKIN: Possible mild irritation for sensitive individuals.

INHALATION: Vapors could cause irritation of eyes and nose in some individuals.

SWALLOWING: Ingestion of large amounts could give toxic effects.

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: Flush eyes with copious amounts of water.

IF ON SKIN: Wash skin thoroughly with soap & water.

IF INHALED: Move to fresh room temperature air.

IF SWALLOWED: Induce vomiting, give water, and consult a physician.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike and absorb spill with inert material (sand, etc.) and dispose of suitably.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations - refer to hazard caution information elsewhere on sheet.

PRECAUTIONS TO TAKE IN STORAGE AND HANDLING: This product should be kept from freezing during shipping and handling. Although freezing presents no hazard, it may ruin the product.

OTHER PRECAUTIONS: For your knowledge, this product contains trace amounts of aqueous ammonia and slight traces of residual acrylic monomers and formaldehyde carried in with the acrylic latex polymer and surfactant used. These trace levels are below reporting requirements in the hazard components section II. Although these are toxic chemicals, at this trace level they should produce no harmful effects if this product is handled with normal care and caution. **CAUTION: KEEP OUT OF REACH OF CHILDREN.**

VIII. SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Self-contained breathing apparatus for concentrations above TLV limits.

VENTILATION: General ventilation.

PROTECTIVE GLOVES: Gloves impervious to water based materials.

EYE PROTECTION: Splash proof goggles.

OTHER PROTECTIVE EQUIPMENT: Apron, work clothes, etc.

HYGIENIC PRACTICES: After using product, wash hands with soap and water.

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 ADC Standard

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ADDRESS: 3735 Green Road, Beachwood, OH 44122

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