

**REPUBLIC FLUORO-PRIME 4 GALS / PAIL**

Version 4.0

Print Date 03/28/2013

REVISION DATE: 07/08/2012

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : REPUBLIC FLUORO-PRIME 4 GALS / PAIL  
 Product code : 1130K05P

COMPANY : Republic Powdered Metals  
 2628 Pearl Road  
 Medina, OH 44256

Telephone : (800) 551-7081  
 Emergency Phone: : 1-800-551-7081  
 After Hours: Chemtrec 1-800-424-9300

Product use : Coating

**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

White. Liquid. No serious effects anticipated under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : No serious effects anticipated under normal conditions of use.  
 Eyes : Direct contact may cause mild irritation.  
 Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.  
 Skin : May cause mild irritation.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Repeated and prolonged contact with n-methylpyrrolidone (NMP) has caused redness, cracking and blistering of the skin. Animal studies show that NMP can cause adverse embryo and testicular effects at very high dose levels. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	> 60.0
Synthetic magnesium lithium silicate	53320-86-8	3.0 - 7.0
1-Methyl-2-pyrrolidinone	872-50-4	1.0 - 5.0
Styrene Acrylic Copolymer	NJTSRN# 51721300-5758P	1.0 - 5.0



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**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
- Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Get medical attention. Do not induce vomiting.
- Notes to physician : Not applicable.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : Not available.
- Method : Not applicable.
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : This product is not expected to burn under normal conditions of use.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : This product not expected to ignite under normal conditions of use.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Transfer to appropriate container for disposal. Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal. Use appropriate protective equipment. Avoid contact with material.

**SECTION 7 - HANDLING AND STORAGE**

Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. Keep from freezing. Do not use in confined or poorly ventilated areas. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Store in sealed containers in a dry, ventilated warehouse location above freezing.

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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protection equipment**

- Respiratory protection : Not required under normal conditions of use. Wear appropriate, NIOSH/MSHA approved respirator with combination particulate filter and vapor/gas removing cartridge when the ventilation is not adequate or if it is necessary to abrade or grind surfaces coated with this product.
- Hand protection : Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures : Other equipment not normally required. Use professional judgment in the selection, care, and use.
- Engineering measures : Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Aluminum oxide	1344-28-1	ACGIH TWA:	10 mg/m <sup>3</sup>	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction.
		OSHA PEL:	5 mg/m <sup>3</sup>	
		OSHA PEL:	15 mg/m <sup>3</sup>	
		OSHA TWA:	15 mg/m <sup>3</sup>	
		OSHA TWA:	5 mg/m <sup>3</sup>	
		ACGIH TWA:	1 mg/m <sup>3</sup>	
Ammonium hydroxide	1336-21-6	ACGIH TWA:	25 ppm	
		ACGIH STEL:	35 ppm	
		OSHA PEL:	35 mg/m <sup>3</sup>	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid
- Color : White
- Odor : None
- pH : Not available.
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.



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Freezing point : Not available.  
Boiling point/range : Not available.  
Water solubility : Soluble  
Specific Gravity : 1.002  
% Volatile Weight : 94 %

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Strong acids.Strong bases.  
Stability : Stable  
Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

1-Methyl-2-pyrrolidinone, CAS-No.: 872-50-4  
Acute oral toxicity (LD-50 oral) 5,130 mg/kg ( Mouse ) 4,320 mg/kg ( Rat ) 3,914 mg/kg ( Rat ) 7,725 mg/kg ( Mouse )  
Acute dermal toxicity (LD-50 dermal) 8,000 mg/kg ( Rabbit )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Waste not regulated under RCRA. Dispose of in compliance with state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**CFR / DOT:**

Not Regulated

**TDG:**

Not Regulated

**IMDG:**



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Not Regulated

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**

One or more components are not listed on the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components : 1-Methyl-2-pyrrolidinone 872-50-4  
SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

1-Methyl-2-pyrrolidinone 872-50-4  
Sodium nitrite 7632-00-0  
Aluminum oxide 1344-28-1  
Ammonium hydroxide 1336-21-6

OSHA Status: Considered : Irritant  
hazardous based on the following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and exempt solvent) : 45 g/l 362 g/l

VOC Method 310 : 2 %

**U.S. State Regulations:**

MASS RTK Components : 1-Methyl-2-pyrrolidinone 872-50-4  
Penn RTK Components : Water 7732-18-5  
Synthetic magnesium lithium silicate 53320-86-8  
1-Methyl-2-pyrrolidinone 872-50-4  
NJ RTK Components : Water 7732-18-5  
Synthetic magnesium lithium silicate 53320-86-8  
1-Methyl-2-pyrrolidinone 872-50-4  
Styrene Acrylic Copolymer NJTSRN# 51721300-5758P

Components under California Proposition 65:

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm



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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	1
Flammability	0
Reactivity	0
PPE	

0 = Minimum  
 1 = Slight  
 2 = Moderate  
 3 = Serious  
 4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

ACGIH - American Conference of Governmental Hygienists  
 NTP - National Toxicology Program  
 DOT - Department of Transportation  
 DSL - Domestic Substance List  
 EPA - Environmental Protection Agency  
 HMIS - Hazardous Materials Information System  
 IARC - International Agency for Research on Cancer  
 MSHA - Mine Safety Health Administration  
 NDSL - Non-Domestic Substance List  
 NIOSH - National Institute for Occupational Safety and Health  
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit  
 RCRA - Resource Conservation and Recovery Act  
 RTK - Right To Know  
 SARA - Superfund Amendments and Reauthorization Act  
 STEL - Short Term Exposure Limit  
 TLV - Threshold Limit Value  
 TSCA - Toxic Substances Control Act  
 TWA - Time Weighted Average  
 V - Volume  
 VOC - Volatile Organic Compound  
 WHMIS - Workplace Hazardous Materials Information System