

COOL TOOLS  
162 W MAIN ST SUITE M  
WHITEWATER WI 53190  
888-478-5060 / FAX 262-546-5275  
OUTSIDE US: 323-386-2323

CHEMTREC NUMBER (100) 424-9300  
NATIONAL RESPONSE CENTER NUMBER (800)424-8802

---

## SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: SILVER PREP

---

## SECTION II EMERGENCY OVERVIEW

Appearance: white crystalline granuals

### Potential Health Effects

Eye: Causes severe eye irritation and possible injury.

Skin: Causes skin irritation. Some references state that citric acid has allergenic properties but, no animal or human studies were found to support this claim. It does not seem likely that citric acid is a sensitizer since it is found in the body as an essential component of the citric acid cycle which re energy for physiological functions. Citric acid is widely distributed in plants and in animal tissues and fluids.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Inhalation: Causes respiratory tract irritation.

Chronic: Repeated exposure may cause erosion of teeth. Chronic exposure may cause effects similar to those of acute exposure.

---

## SECTION III PRODUCT COMPONENTS

CAS#	Chemical Name	Percent	EINECS/EL
77-92-9	citric acid	>94	201-06
7784-24-9	aluminum postassium sulfate	>4	-
231-598-3	sodium chloride	>3	231-59

---

## SECTION IV PHYSICAL DATA

Physical State: Crystalline powder	Appearance: white	Odor: Odorless.	pH: 1.7 (10% soln)
Vapor Pressure: 3.70E-009 mm Hg @ 25 deg C	Vapor Density: Not available	Evaporation Rate: Not available.	Viscosity: N/A
Boiling Point: 175 deg C	Freezing/Melting Point: 153 deg C	Decomposition Temperature: 175 deg C	Solubility: 59.2% (20°C)
Specific Gravity/Density: 1.665 g/cm3			

---

## SECTION V FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

---

## SECTION VI FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in suffic quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: Not applicable. Autoignition Temperature: 1010 deg C ( 1,850.00 deg F) Explosion Limits, Lower: Not available.

Upper: Not available. NFPA Rating: (estimated) Health: 3; Flammability: 1; Instability: 0

---

**SECTION VII ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section VI.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Spill may be carefully neutralized with lime (calcium oxide,

---

**SECTION VIII HANDLING & STORAGE**

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Avoid ingestion and inhalation. Do not get in eyes. Avoid contact with skin and cloth

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from

---

**SECTION IX EXPOSURE CONTROLS & PERSONAL PROTECTION**

Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA
Citric acid	none listed	none listed	none listed
aluminum potassium sulfate	none listed	none listed	none listed
sodium chloride	none listed	none listed	none listed

**Personal Protective Equipment**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: The absence of published exposure limits does not mean that a substance poses no inhalation hazard. If inhalation exposure is likely irritation or other symptoms are experienced, wear a NIOSH/MSHA or European Standard EN 149 approved respirator.

---

**SECTION X STABILITY AND REACTIVITY**

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation, moisture.

Incompatibilities with Other Materials: Metal nitrates, strong oxidizing agents, strong reducing agents, strong bases, metals.

Hazardous Decomposition Products: Carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

---

**SECTION XI TRANSPORTATION INFORMATION**

US DOT: N/A      Canada TDG: N/A

Shipping Name: Not Regulated Not Regulated

Hazard Class: N/A

UN Number: N/A

Creation Date: 11/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Cool Tools be liable for any claims, losses, or damages of any kind by the use of this product.