

# MATERIAL SAFETY DATA SHEET

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**MATERIAL:** SODIUM CITRATE AND CITRIC ACID ORAL SOLUTION

**MANUFACTURER:** PHARMACEUTICAL ASSOCIATES, INC.  
201 Delaware Street  
Greenville, S.C. 29605

**EMERGENCY NUMBER:** Poison Control Center 1-800-922-1117

**ACTIVE INGREDIENTS:**

Sodium Citrate Dihydrate, USP	500 mg
Citric Acid Anhydrous, USP	(305.36 mg)
Citric Acid Monohydrate, USP	334 mg

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**MATERIAL IDENTIFICATION AND INFORMATION**

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**COMPONENTS** Chemical Name & Common Names

Sodium Citrate Dihydrate, USP  
Citric Acid Anhydrous, USP  
Citric Acid Monohydrate, USP  
Sorbitol Solution, USP  
Propylene Glycol, USP  
Sodium Benzoate, NF  
Polyethylene Glycol 400 NF  
Grape Blend PFC 9711  
Purified Water, USP

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**HEALTH HAZARD INFORMATION**

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**PRIMARY ROUTE OF ENTRY:** Ingestion/Not hazardous

**CARCINOGEN LISTED:** Not Listed

**HEALTH HAZARDS:** **Acute;** Diarrhea, nausea and vomiting, hypernatremia and convulsions. Also may decrease serum calcium levels.  
**Chronic;** N/A

**EFFECTS OF OVEREXPOSURE:** Hypersensitivity to any of the components

**EMERGENCY AND FIRST AID PROCEDURES:** CONTACT EMPLOYEE HEALTH SERVICES IMMEDIATELY.

1. **INHALATION:** Remove to fresh air and contact a physician or poison control center.
2. **EYE CONTACT:** Flush with running water for 15 minutes holding eyelids open. Then contact physician.
3. **SKIN CONTACT:** Wash contaminated area with water. If skin irritation occurs, contact physician.
4. **INGESTION:** Overusage : Contact a physician or poison control center.

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**SPECIAL PROTECTION INFORMATION**

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**VENTILATION:** Not required under normal conditions of therapeutic use.

**RESPIRATORY PROTECTION:** Not required under normal conditions of therapeutic use.

**PROTECTIVE GLOVES & CLOTHING:** Not required under normal conditions of therapeutic use.

**EYE PROTECTION:** Safety glasses recommended.

**ADDITIONAL MEASURES:** None

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**PHYSICAL DATA**

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**APPEARANCE:** Clear, Colorless      **ODOR THRESHOLD:** Grape

**MELTING POINT:** N/A                      **VAPOR PRESSURE:** N/A

**BOILING POINT:** N/A                      **VAPOR DENSITY:** N/A

**EVAPORATION RATE:** N/A                      **SPECIFIC GRAVITY:** N/A

**WATER REACTIVE:** No

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**AUTOIGNITION TEMPERATURE:** N/A

**FLASH POINT:** N/A

**FLAMMABLE LIMITS: Lower:** N/A

**Upper:** N/A

**EXTINGUISHING MEDIA:** Water or same as surrounding area.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS:** Wear full protective clothing and self contained breathing apparatus.

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#### **REACTIVITY HAZARD DATA**

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**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** will not occur

**CONDITIONS AND MATERIALS TO AVOID:** Heat or Fire

**HAZARDOUS DECOMPOSITION PRODUCTS:** Unknown

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#### **ENVIRONMENTAL PROTECTION**

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**IF MATERIAL IS RELEASED OR SPILLED:** Absorb with paper towel or mop. Residues may be flushed to sanitary sewer with water.

**WASTE DISPOSAL METHOD:** All wastes will be sent to an appropriate, approved disposal facility following standard operating procedures.

**EPA HAZARDOUS WASTE # :** None

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#### **SPECIAL PRECAUTIONS**

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**PRECAUTIONS FOR HANDLING AND STORING:** Store at controlled temp. 59-86 F.

**OTHER PRECAUTIONS:** Emits toxic fumes on combustion.