



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Sodium Citrate USP Anhydrous

30-1144

### Section 1: Identification

**Product Name** Sodium Citrate USP Anhydrous  
**Commercial Name** Citnatin, Citreme, Citrosoedine, Citrosodna, Natrocitral  
**Product Use** Food additive  
**Restrictions On Use** Not available  
**Product Code** 30-1144  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760  
**In case of emergency contact:**  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Combustible Dust  
**CFR 1910.1200**  
**Signal Word** WARNING  
**Hazard Statement(s)** May form combustible dust concentrations in air.  
**Pictogram(s) or Symbol(s)**

#### Precautionary Statement(s):

**Prevention** Not available  
**Response** Not available  
**Storage** Not available  
**Disposal** Not available.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance  
**Components** Sodium citrate anhydrous  
**% By Weight** 100  
**CAS#** 68-04-2  
**Molecular Weight** 258.07 g/mole  
**Chemical Formula** C<sub>6</sub>H<sub>5</sub>Na<sub>3</sub>O<sub>7</sub>  
**Synonym(s)** Trisodium citrate; 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Sodium citrate anhydrous	68-04-2	100	Not available.	Not available.

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move to fresh air.
<b>Skin Contact</b>	Wash off with warm water and soap.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Eyes Contact with eyes may cause mechanical irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated". Ingestion Health injuries are not known or expected under normal use.
<b>Delayed</b>	Eyes Contact with eyes may cause mechanical irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated". Ingestion Health injuries are not known or expected under normal use.

**Immediate Medical Attention**

Treat symptomatically

**Section 5: Fire-Fighting Measures**
**Suitable Extinguishing Media**

Water. Carbon dioxide (CO<sub>2</sub>) Foam. Dry powder. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>). Combustible material. Sensitivity to static discharge Yes. (as dust).

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

Personal Precautions: Ensure adequate ventilation. Avoid dust formation. Avoid sparks, flames, static electricity discharges, etc. in the presence of dust. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Methods for Containment: Keep in suitable, closed containers for disposal. Methods for Clean-up: Shovel or sweep up. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

**Section 7: Handling and Storage**

Handling: Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities". Storage: Keep in a dry, cool and well-ventilated place.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	ACGIH TLV: TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended TWA: 3 mg/m <sup>3</sup> respirable particles, recommended OSHA PEL: TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction
<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice.
<b>Personal Protection</b>	Eye/face Protection. If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended. Skin and Body Protection Protective clothing and gloves may be worn to reduce the potential of mechanical irritation. Respiratory Protection: If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Colorless to White Powder / Crystalline Granules		
<b>Odor</b>	Odorless.		
<b>Odor Threshold</b>	No information available		
<b>Melting Point</b>	Decomposes before melting	<b>pH</b>	approx 8.0
<b>Freezing Point</b>	No information available	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	No information available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	No information available
<b>Flammability</b>	No information available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	No information available
		<b>Upper</b>	No information available
<b>Solubility(ies)</b>	Water solubility: approx 36%		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	No information available
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	None under normal processing.
<b>Conditions to Avoid</b>	Avoid dust formation.
<b>Incompatible Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	None under normal use. Thermal decomposition may lead to release of: Carbon monoxide (CO), Carbon dioxide (CO2)

**Section 11: Toxicological Information**
**RTECS** GE8300000

**Acute Toxicity**

Based on available data, no evidence of acute toxicity. LD50 Oral &gt; 8000 mg/kg bw (rat)

**Skin Corrosion/Irritation**

Based on available data, not, or only slightly irritating

**Serious Eye Damage/Irritation**

Based on available data, no evidence of serious eye damage / irritation

**Respiratory or Skin Sensitization**

Based on available data, not expected to be a skin or respiratory sensitiser.

**Germ Cell Mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, no evidence of carcinogenicity. There are no known carcinogenic chemicals in this product.

**Reproductive Toxicity**

Based on available data, no evidence of reproductive toxicity.

**Routes of Entry**

Not available.

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**Symptoms Related to Exposure**

No information available

**Potential Health Effects**

Eyes Contact with eyes may cause mechanical irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated".

**Target Organ(s)**

No information available

**Section 12: Ecological Information****Ecotoxicity**

Contains no substances known to be hazardous to the environment. Fresh Water Algae: EC50: 96h 18000 -32000 mg/L (Chlorella vulgaris) Acute Fish Toxicity: LC50: 96h 18000-32000mg/L (Poecilia reticulata) Daphnia(Water flea): EC50: 48h 5600 -10000 mg/L (Daphnia magna)

**Persistence and Degradability**

Inherently biodegradable

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

No information available

**Other Adverse Effects**

No information available

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Can be landfilled or incinerated, when in compliance with local regulations.

**Disposal of Container**

Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

Ozone Depleting Substances: No Class I or Class II material is known to be used in the manufacture of, or contained in, this product. SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372. SARA 302 Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 302. SARA 311/312 Hazardous Categorization Acute Health Hazard No Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard No Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63) This product is not known to contain any HAPS. State Right-to-Know No known components subject to "Right-To-Know" legislation.

**Other**

WHMIS CLASS D-2B: Material causing other toxic (Canada) effects (TOXIC); DSCL (EEC) R38- Irritating to skin. R41- Risk of serious damage to eyes.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Splash goggles.

**Section 16: Other Information**



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PreparedBy:SpecialtyFoodIngredients PreparationDate:02-Mar-2009 RevisionDate:02-Mar-2009

RevisionSummary:Implementationintosoftwaresystem Disclaimer :The information provided on this( M)SDSis correct to the best of our knowledge,information and belief at the date of its publication.The information given is designed only as a guide for safehandling,use,processing,storage,transportation, disposal and release and is not to be consideredas a warranty or quality specification.The information relates only to the specific material designated and may not be valid for such material used in combination with anyothe rmaterial or in any process,unless specified in the text.