



# CITRUS TREAT™

## SAFETY DATA SHEET

### Section 1: Chemical Product and Company Identification

**Product name:** Citrus Treat™

**Catalog Codes:** SLC5449, SLC2665, SLC4453, SLC1660

**CAS#:** 77-92-9

**RTECS:** GE7350000

**TSCA:** TSCA 8(b) inventory: Citric acid

**CI#:** Not available

**Synonym:** 2-Hydroxy-1,2,3-propanetricarboxylic acid

**Chemical Name:** Citric Acid

**Chemical Formula:** C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>

**Contact Information:**

United Chemical Corporation

3741 E Telegraph Rd

Piru, CA 93040

**US Sales:** 800-524-5550

**Order Online:** [www.unitedchemicalcorp.com](http://www.unitedchemicalcorp.com)

**Non-emergency assistance:** 800-524-5550

### Section 2: Hazards Identification

**Physical Hazards:** Not classified.

**Health Hazards:** Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 2

**Environmental Hazards:** Not classified.

**OSHA Defined Hazards:** Not classified.

**Label Elements (GHS-US):**



**Signal Word (GHS-US):** Warning

**Hazard Statement (GHS-US):** Causes skin irritation. Causes eye irritation.

**Precautionary Statements (GHS-US):**

**Prevention:** Wash thoroughly after handling.

**Response:** If on skin: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention.  
If in eyes: Immediately flush eyes with plenty of water for several minutes. Remove contact lenses.

**Storage:** Store away from incompatible materials.

**Disposal:** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC):** None known.

**Supplemental Information:** Not applicable.

### Section 3: Composition and Information on Ingredients

Chemical Name	CAS Number	% by weight
Citric Acid	77-92-9	100%

Toxicological Data on Ingredients: Citric acid: ORAL (LD50): Acute: 5040 mg/kg [Mouse]. 3000 mg/kg [Rat].

## Section 4: First Aid Measures

### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

## Section 5: Fire and Explosion

### Flammability of the Product:

May be combustible at high temperature.

### Flammable Limits:

LOWER: 0.28 Kg/M3 (Dust) UPPER: 2.29 Kg/M3 (Dust)

### Products of Combustion:

These products are carbon oxides (CO, CO2).

### Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

### Explosion Hazards in Presence of Various Substances:

Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

### Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures.

## Section 6: Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Environmental Precautions:

Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

### Precautions:

Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25 °C (77 °F).

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

No exposure guidelines have been established.



## Section 9: Physical and Chemical Properties

### Physical state and appearance:

Solid crystalline powder. Odor: Odorless.

### Taste:

Acid. (Strong.)

### Molecular Weight:

192.13 g/mole

### Color:

Not available.

### pH (1% soln/water):

Not available.

### Boiling Point:

Decomposes.

### Melting Point:

153 °C (307.4 °F)

### Critical Temperature:

Not available.

### Specific Gravity:

1.665 (Water = 1)

### Vapor Pressure:

Not applicable.

### Vapor Density:

Not available.

### Volatility:

Not available.

### Odor Threshold:

Not available.

### Water/Oil Dist. Coeff.:

Not available.

### Ionicity (in Water):

Not available.

### Dispersion Properties:

See solubility in water.

### Solubility:

The product is more soluble in water; log(oil/water) = -1.7

## Section 10: Stability and Reactivity

**Stability:**

The product is stable.

**Instability Temperature:**

Not available.

**Conditions of Instability:**

Excess heat, incompatible materials

**Incompatibility with various substances:**

Reactive with oxidizing agents, acids.

**Corrosivity:**

Corrosive in presence of aluminum, of zinc, of copper. Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Incompatible with oxidizing agents, potassium tartrate, alkali, alkaline earth carbonates and bicarbonates, acetates, and sulfides, metal nitrates.

**Special Remarks on Corrosivity:**

Will corrode copper, zinc, aluminum and their alloys. Polymerization: Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:**

Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): 3000 mg/kg [Rat].

**Chronic Effects on Humans:**

May cause damage to the following organs: teeth.

**Other Toxic Effects on Humans:**

Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion.

**Special Remarks on Toxicity to Animals:**

LDL[Rabbit] - Route: oral; Dose: 7000mg/kg

**Special Remarks on Chronic Effects on Humans:**

Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: Causes mild to moderate skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes moderate to severe eye irritation and possible injury. Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea. Excessive intake may cause erosion of teeth and hypocalcemia (calcium deficiency in blood). May affect behavior/central nervous system (tremor, convulsions, muscle contraction or spasticity). Inhalation: Causes moderate respiratory tract and mucous membrane irritation. Chronic Potential Health Effects: Frequent intake of citrated beverages may cause erosion of dental enamel and irritation of mucous membranes.

## Section 12: Ecological Information

**Ecotoxicity:**

Not available.

**BOD5 and COD:**

Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:**

The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:**

Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid access to streams, lakes or ponds.

## Section 14: Transport Information

**DOT Classification:**

Not a DOT controlled material (United States).

**Identification:**

Not applicable.

**Special Provisions for Transport:**

Not applicable.

## Section 15: Regulatory Information

**U.S. Regulations:**

**OSHA HAZCOM (Hazard Communication):** This product is considered non-hazardous under the HAZCOM Standard (29 CFR 1910.1200).

**OSHA PSM (Process Safety Management):** Not regulated under PSM Standard (29 CFR 1910.119).

**EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act):** Not regulated.

**EPA EPCRA (Emergency Planning and Community Right-to-Know Act):** Not regulated.

**EPA TSCA (Toxic Substance Control Act):** Listed on the inventory.

**EPA RCRA (Resource Conservation and Recovery Act):** This material does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

**EPA RMP (Risk Management Plan):** Not regulated. (40 CFR 68.130)

**State of California Regulations:**

**Prop 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):** Not Listed

**Canada Regulations:**

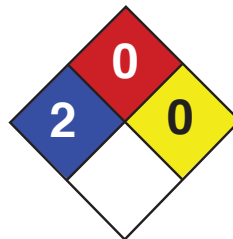
**WHMIS (Workplace Hazardous Materials Information System):** Not Controlled.

**DSL (Domestic Substances List):** The substance is specified on the public portion of the DSL.

## Section 16: Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	2
Fire	0
Reactivity	0
Personal Protection	



**International Fire Code/ International Building Code:** Irritant.

**ANSI (American National Standards Institute):**

**Hazardous Industrial Chemicals - MSDS-Preparation:** Complies with ANSI Z400.1 - 2004.

**Hazardous Industrial Chemicals - Precautionary Labeling:** Complies with ANSI Z129.1 - 2006.

**References:** Not available.

**Other Special Considerations:** Not available.

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