

## Safety Data Sheet

### Citric Acid Powder

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	<b>Citric Acid Powder</b> Citric Acid
Substance name	C6-H8-07
Molecular formula	2-hydroxypropane-1,2,3-tricarboxylic acid
Chemical identity	77-92-9
CAS-No.	Solid
Chemical nature	

#### Manufacturer or supplier's details

Windy Point Soap Making Supplies Inc.  
14, 6125 12th Street SE  
Calgary, Alberta Canada T2H 2K1  
Phone: 587-318-6678

<b>Emergency telephone number</b>	(800) 255-3924 Domestic USA, Canada, Puerto Rico, & USVI+ (813) 248-0585 International
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#### Recommended use of the chemical and restrictions on use

<b>Recommended use</b>	Food / foodstuff additives, Cosmetic additive, Medical aids,
	Industrial use
<b>Restrictions on use</b>	None known.

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Eye irritation : Category 2

##### GHS-Labeling - Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Hazards Not Otherwise Classified**

May form combustible dust concentrations in air (during processing).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Pure substance

**Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
Citric acid anhydrous	77-92-9	100

**SECTION 4. FIRST AID MEASURES**

**First aid procedures**

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes. Consult a physician.

If inhaled : If breathed in, move person into fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact : In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

In case of eye contact : If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

If swallowed : Drink plenty of water. If swallowed, DO NOT induce vomiting.

**Notes to physician**

Symptoms : Eye irritation may cause mild and mechanical irritation and thus symptoms which would be redness and pain.

Risks : Causes serious eye irritation.

Treatment : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

### Fire fighting

Suitable extinguishing media : Water spray  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire and/or explosion do not breathe fumes.

### Protective equipment and precautions for firefighters

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.  
Hazardous decomposition products formed under fire conditions.  
Exposure to decomposition products may be a hazard to health.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Wear fire resistant or flame retardant clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation, especially in confined areas.  
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
No special environmental precautions required.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## SECTION 7. HANDLING AND STORAGE

### Handling

Advice on safe handling : Risk of dust explosion.  
May form combustible dust concentrations in air (during processing).  
Avoid creating dust.  
Do not breathe dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : St1

### Storage

Requirements for storage areas and containers : Take measures to prevent the build up of electrostatic charge. Keep in an area equipped with acid resistant flooring. Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions : Do not store at temperatures above 30 °C / 86 °F.

Advice on common storage : Incompatible with strong bases and oxidizing agents.

Other data : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide adequate ventilation.

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Use NIOSH approved respiratory protection.

Hand protection  
Remarks

- Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection

- Safety glasses  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: crystalline
Colour	: white
Odour	: odourless
pH	: 1.8, 5 % (25 °C)
Melting point/range	: ca. 153 °C
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: does not ignite
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Density	: 1,665 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: ca. 800 g/l (20 °C)
Partition coefficient: n-octanol/water	: log Pow: -1.8 - -0.2 Calculation
Ignition temperature	: Not applicable
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Oxidizing properties	: No oxidizing effect.
Molecular weight	: 192.12 g/mol

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Avoid dust formation.
Incompatible materials	: Strong bases Oxidizing agents

Hazardous decomposition products

· Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Components:

#### **Citric acid anhydrous:**

Acute oral toxicity : LD50 Oral Mouse: 5,400 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: 11,700 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal Rat: > 2,000 mg/kg

Acute toxicity (other routes of administration) : LD50 Rat: 725 mg/kg  
Application Route: i.p.

LD50 Mouse: 940 mg/kg  
Application Route: i.p.

### Skin corrosion/irritation

#### Components:

#### **Citric acid anhydrous:**

: Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Remarks: May cause skin irritation in susceptible persons.

### Serious eye damage/eye irritation

#### Components:

#### **Citric acid anhydrous:**

· Species: Rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405

### Respiratory or skin sensitisation

#### Components:

#### **Citric acid anhydrous:**

: Test Method: Maximisation Test (GPMT)  
Species: Guinea pig  
Result: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

### Germ cell mutagenicity

**Components:**

**Citric acid anhydrous:**

Germ cell mutagenicity-  
Assessment : In vivo tests did not show mutagenic effects

**Carcinogenicity**

**Components:**

**Citric acid anhydrous:**

Carcinogenicity -  
Assessment : Did not show carcinogenic or teratogenic effects in animal  
experiments.

**Reproductive toxicity**

**Components:**

**Citric acid anhydrous:**

Reproductive toxicity -  
Assessment : No toxicity to reproduction

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**Potential Health Effects**

Aggravated Medical  
Condition : None known.

Symptoms of Overexposure : Eye irritation may cause mild and mechanical irritation and  
thus symptoms which would be redness and pain.

**Experience with human exposure**

Inhalation : Respiratory system  
No information available.

Skin contact : Skin  
May cause skin irritation in susceptible persons.

Eye contact : Eyes  
Redness  
  
pruritis

Ingestion : Digestive organs  
No information available.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Citric acid anhydrous :**

- |   |   |
|---|---|
| Toxicity to fish                                    | : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l<br>Exposure time: 48 h<br>Test Method: static test<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : LC50 (Daphnia magna (Water flea)): 1,535 mg/l<br>Exposure time: 24 h<br>Test Method: static test                                    |
| Toxicity to algae                                   | : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l<br>Exposure time: 8 d<br>Test Type: static test                              |
| Toxicity to bacteria                                | : TT (Pseudomonas putida): > 10,000 mg/l<br>Exposure time: 16 h   |

**Persistence and degradability**

**Components:**

**Citric acid anhydrous :**

- |                                 |  |
|---------------------------------|--|
| Biodegradability                | : Biodegradation: 97 %<br>Testing period: 28 d<br>Method: OECD Test Guideline 301B<br>Remarks: Readily biodegradable |
|                                 | Biodegradation: 100 %<br>Testing period: 19 d<br>Method: OECD Test Guideline 301E<br>Remarks: Readily biodegradable  |
| Biochemical Oxygen Demand (BOD) | : 526 mg/g   |
| Chemical Oxygen Demand (COD)    | : 728 mg/g   |



### Bioaccumulative potential

**Product:**

Partition coefficient: n-octanol/water : log Pow: -1.8 - -0.2  
Remarks: Calculation

**Components:**

**Citric acid anhydrous :**  
Bioaccumulation : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

### Other adverse effects

**Components:**

**Citric acid anhydrous :**  
Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Where possible recycling is preferred to disposal or incineration.  
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : CAUSES EYE IRRITATION

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** · This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

**REACH** On the inventory, or in compliance with the inventory  
**TSCA** On TSCA Inventory  
**EINECS** On the inventory, or in compliance with the inventory  
**DSL** All components of this product are on the Canadian DSL

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Disclaimer & Caution**

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