

## I. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Citric Acid
Synonyms	:	Beta-hydroxy-tricarboxylic acid, 2-Hydroxy-1,2,3-propanetricarboxylic
(continued)	:	acid.
INCI name	:	Not available.
CAS#	:	77-92-9
Country of Origin	:	Canada
EINECS#	:	201-069-1
Product use	:	Domestic and Industrial
Supplier	:	XI'AN AOGU BIOTECH CO.,LTD
Address	:	Room 606, Block B3, Jinye Times, No.32, East Section of Jinye Road, Yanta District, Xi'an Shaanxi 710065 China
Fax	:	0086-29-89121514
Telephone number	:	0086-29-89121514

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Eye Irritation-Category 2

### GHS Label elements, including precautionary statements



Signal: Warning

### Hazard statement(s)

H319 Causes serious eye irritation.

### Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P501 Dispose of contents/container according to local regulations.

### Other Info

Hazards Not Otherwise Classified - May form combustible dust concentrations in air (during processing).

### 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Citric Acid Anhydrous	77-92-9	201-069-1	100%

### 4. FIRST AID MEASURES

#### Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

#### Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

#### Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

#### Ingestion

Seek medical attention or contact local poison control center.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Small fires: DRY chemical powder.

Large fires: Water spray, fog, foam

#### Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

#### Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

#### Resulting gases

Carbon oxides.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### Methods and materials for containment and cleaning up

Clean up any spills as soon as possible. Use suitable disposal containers.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

#### Conditions for safe storage, including any incompatibilities

Do not store at temperatures above 30 °C / 86 °F. Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Eyes

Use tightly sealed goggles.

### **Skin**

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### **Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **Ingestion**

Not for ingestion.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Solid crystalline powder
Odor	:	Odorless.
Melting Point/Freezing Point	:	153 °C.
Relative density	:	1.665 @ 20°C
Solubility (ies)	:	Soluble in water.
Auto-ignition temperature	:	345 °C.

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

This material presents no significant reactivity hazard.

### **Chemical stability**

Chemically stable.

### **Conditions to avoid**

Avoid sparks, flame and other heat sources.

### **Incompatible materials**

Strong bases. Strong oxidizing agents.

### **Hazardous decomposition products**

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

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

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

Acute dermal toxicity : LD50: > 2,000 mg/kg [Rat].

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

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

### **Carcinogenicity**

None of the components of this material are listed as a carcinogen.

### **IARC**

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

### **ACGIH**

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

### **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.

## **OSHA**

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

### **Mutagenicity**

Non - mutagenic

### **Reproductive toxicity**

No adverse effects on reproduction are known.

### **Respiratory or skin sensitization**

Does not cause respiratory or skin sensitization.

### **Inhalation**

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

### **Skin contact**

Adverse skin effects should be prevented by normal care and personal hygiene.

### **Eye contact**

Possible irritation should be prevented by wearing safety glasses.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna (Water flea)): 1,535 mg/l

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l

Toxicity to bacteria : TT (Pseudomonas putida): > 10,000 mg/l

### **Persistence and degradability**

Biochemical Oxygen Demand (BOD): 526 mg/g

Chemical Oxygen Demand (COD): 728 mg/g

Readily Biodegradable.

### **Bio - accumulative potential**

The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

### **Mobility in soil**

Not available.

## **13. DISPOSAL CONSIDERATION**

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

## **14. TRANSPORT INFORMATION**

### **US DOT Shipping Description (Land)**

Not regulated

### **IMO-IMDG Shipping Description (Sea)**

Not regulated

### **IATA Shipping Description (Air)**

Not regulated

## **15. REGULATORY INFORMATION**

### **TSCA**

On TSCA Inventory.

**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 Proposition 65**

This product does not contain any Proposition 65 chemicals.

**16. OTHER INFORMATION**

Revision date : July 3, 2018

**Disclaimer & Caution**

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