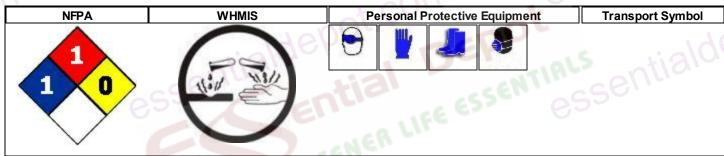


Material Safety Data Sheet



Preparation Date 06/01/2012 **Revision Date: 06/01/2012 Revision Number 1**

1. PRODUCT AND COMPANY IDENTIFICATIONS

Product Name: Citric Acid Anhydrous

CITRIC-ACID-1LB **Product Code:**

Synonyms:

Acido 2-Hydroxy-1,2,3-Propanetricarboxylic. Aciletten. Acido beta-Hydroxytricarballylic. Citrate. Citretten. Citronensaeure. NSC 30279. Acido 2-hydroxypropane-1,2,3-tricarboxylic. E 330.

Use of the Substance / Preparation:

Food additive

Company Identification:

Essential Depot 2029 US HWY 27 SOUTH Sebring FL 33875, USA

Telephone Number: 866 840 2495 (Ext 0)

Emergency Telephone Number:

Chemtrec 1-800-424-9300 (or 703-527-3887)

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes, Irritating to skin, Corrosive to metals (as aqueous solution).

Appearance White Colorless

Physical State Solid Powder

Eye contact, Skin contact, Inhalation, Ingestion.

Odor Odorless

Potential Health Effects

Principle Routes of Exposure

Acute Effects

Eyes Contact with eyes may cause irritation.

Skin Avoid contact with skin. Prolonged skin contact may cause skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes.

Chronic Effects

Avoid repeated exposure. **Aggravated Medical Conditions** No information available...

Potential Environmental Effects See Section 12 for additional ecological information. **Toxicological information** See Section 11 for additional toxicological information.

North America Page 1/7

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Acids

The following component(s) in this product are considered hazardous under applicable OSHA (USA), WHMIS (Canada), and/or

NOM-002-SCT-2003 (Mexico) regulations

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Citric acid	77-92-9	99-100	yes

4. FIRST AID MEASURES

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms

persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Fine dust dispersed in air may ignite.

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Foam. Use

extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Thermal

decomposition can lead to release of irritating gases and

vapours.

Explosion Data

Sensitivity to mechanical impact No Sensitivity to static discharge No

Specific Hazards Arising from the Chemical None known

Protective Equipment and Precautions for Firefighters

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

Revision Date: 06/01/2012 Page 2 / 7

NFPA

Health 1

Stability and Reactivity 0

Flammability 1

Physical hazard -



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Clean-up

Pick up and transfer to properly labelled containers. Avoid dust formation. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapours/dust. Use only in area provided with appropriate exhaust ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eve/face Protection Skin and Body Protection **Respiratory Protection**

Tightly fitting safety goggles.

Long sleeved clothing, Boots, Impervious gloves.

Breathing apparatus with filter.

General Hygiene Considerations

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing.

North America Revision Date: 06/01/2012

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceWhite ColorlessPhysical StateSolid Powder

Odor Odorless Odor Threshold No information available

Flash Point 345°C / 653°F Autoignition Temperature 1010°C / 1850°F

Boiling point No information available Melting/Freezing Point 153°C / 307

Flammability Limits in Air No information available Explosion Limits No information available

pH 2.1 Vapor Pressure No information available Water Solubility Soluble Specific Gravity No information available

Evaporation Rate No information available Vapor Density No information available

Density 1.66

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Amines. Heavy metals. Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

No information available.

Possibility of Hazardous Reactions Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral: 3000(rat) mg/kg

LD50 Dermal: No information available **LC50 Inhalation:** No information available

Toxicology data for the components

Chemical Name	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Citric acid	99-100	3000 mg/kg Rat		C 611.	

Chronic Effects

Carcinogenicity

There are no known carcinogenic chemicals in this product.

OSHA: (Occupational Safety & Health Administration)

Not Listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

Not Listed

NTP: (National Toxicity Program)

Not Listed

Mexico: (Official Mexican Norm NOM-010-STPS-1999)

Not Listed

IARC: (International Agency for Research on Cancer)

Not Listed

Subchronic

No information available.

No information available. Irritation

Toxicity

Corrosivity

Corrosive to metals (as aqueous solution).

Sensitization

Neurological

No information available.

Mutagenic Effects No information available.

No information available.

Effects

Reproductive

No information available.

Developmental

No information available.

Effects

Teratogenicity No information available. **Effects Target Organ**

No information available.

Effects

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental properties

Chemical Name	Acute Fish Toxicity	Daphnia (Water flea)	Fresh Water Algae
Citric acid	96 Hr LC50 Lepomis macrochirus:	72 Hr EC50 Daphnia magna: 120	•
	1516 mg/L [static]	mg/L	

Chemical Name	Weight %	log Pow	
Citric acid	99-100	-1.72	

Persistence/Degradability **Bioaccumulation/ Accumulation** Readily biodegradable. No information available.

Mobility

Soluble.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Hazardous waste. Dispose of in compliance with the laws and regulations pertaining to this

product in your jurisdiction.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

essentialdepot.com Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS	CHINA	PICCS	KECL	NZLoC
Citric acid	Yes	Yes	No	Yes 201-069-1	No	Yes	Yes 2-1318	Yes	Yes	Yes KE-20831	Yes

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). ELINCS -European List of Notified Chemical Substances (EU). AICS - Australian Inventory of Chemical Substances (Australia). ENCS -Existing and New Chemical Substances (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand)

USA

Federal 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.

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain essentialdep any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes **Chronic Health Hazard** Nο Fire Hazard Nο Sudden Release of Pressure Hazard Nο Reactive Hazard No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not known to contain any HAPs.

State Regulations

California Proposition 65

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

State Right-to-Know

No known components subject to "Right-To-Know" legislation in the following States:

110 Kilowii componenta adaject te	J Right To Know	v icgisiation in	the following ou	ico.		
Chemical Name	Weight %	Illinois	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Citric acid	99-100	No	No	No	No	No

Canada

WHMIS Product Classification

Class E: Corrosive Material.

WHMIS Ingredient Disclosure List IDL

Component Information

Chemical Name Weight %		WHMIS IDL	Threshold limits	
Citric acid	99-100	Listed	1 %	

(NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Mexico

Mexico - Grade Slight risk, Grade 1

16. OTHER INFORMATION

ssentialdepo

Essential Depot, Inc. **Prepared By**

Preparation Date 6/01/2012

Revision Date 6/01/2012

Disclaimer

The information provided on this (M)SDS is 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 safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 any other material or in any essentialdepo process, unless specified in the text. essentialde

End of (M)SDS

