

512-668-9918



# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 **Product identifiers**

Product name Citric Acid, Anhydrous

CAS number 77-92-9

**Synonyms** 2-hydroxy-1,2,3-propanetricarboxylic acid

#### Relevant identified uses of the substance or mixture and uses advised against 1.2

Identified uses Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

> 12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 512-886-4008 Fax

#### **Emergency telephone**

**Emergency Phone #** US & Canada: 1-800-535-5053 **INFOTRAC** 

International 1-352-323-3500 **INFOTRAC** 

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Eye Damage/Eye Irritation Category 2 Specific Target Organ Toxicity (single exposure) Category 3

Target Organ(s) - Respiratory system

Combustible Dust Yes

#### 2.2 GHS Label elements, including precautionary statements

Laballey.com Page 1 of 10 Pictogram



Signal Word Warning

Hazard statements May form combustible dust concentrations in air.

Causes serious eye irritation. May cause respiratory irritation.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after

handling. Wear eye/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated

area.

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or doctor/physician if you

feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store

locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
2-hydroxy-1,2,3- propanetricarboxylic	Citric acid, anhydrous	77-92-9	<=100%

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### General advice

Laballey.com Page 2 of 10

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

# 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

# 4.3 Indication of any immediate medical attention and special treatment needed

If symptoms persist, call a physician. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

**Unsuitable extinguishing media**No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

#### 5.3 Special 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.

#### 5.4 Further information

Flash Point 100 °C / 212 °F

**Autoignition Temperature** 1000 °C / 1832 °F

Laballey.com Page 3 of 10

#### **Explosion limits**

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### 6.2 Environmental precautions

Should not be released into the environment.

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

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### Incompatibilities

Strong oxidizing agents. Strong bases.

#### **SECTION 8: Exposure controls/personal protection**

Laballey.com Page 4 of 10

#### 8.1 Occupational exposure limits

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

# 8.2 Exposure controls

#### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

#### Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Odorless

Odor Threshold No information available

pH 1.7 (10 %)

Melting Point/Range 153 °C / 307.4 °F

Boiling Point/Range No information available

Evaporation Rate Not applicable

Flammability (solid) No information available

Laballey.com Page 5 of 10

Flammability or explosive limit

Upper

Lower

Vapor Pressure No information available

No data available

Vapor Density Not applicable

Density No information available

Solubility Soluble in water Partition coefficient; No data available

n-octanol/water

Autoignition Temp 1000 °C / 1832 °F

Decomposition Temp No information available

Viscosity
Molecular Formula
Molecular Weight
Not applicable
C6H8O7
192.13 g/mol

VOC Content(%) No information available

Oxidizing properties Not oxidizing

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Temperatures above 170°C.

#### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases.

#### 10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Product Information, Component Information** 

**Acute toxicity** 

Laballey.com Page 6 of 10

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric acid	3 g/kg (Rat)	>2 g/kg (Rat)	-

#### Skin corrosion/irritation

No information available.

# Serious eye damage/eye irritation

Severe eye irritant.

# Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Citric acid	77-92-9	Not listed				

# Specific target organ toxicity - single exposure

Respiratory system.

# Specific target organ toxicity - repeated exposure

None known.

#### Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Citric acid	LC50	Leuciscus idus	440-760 mg/L/96h
	EC50	Photobacterium phosphoreum	14 mg/L/15 min
	EC50	Water Flea	120 mg/L/72h

# 12.2 Persistence and degradability

Persistence is unlikely.

Laballey.com Page 7 of 10

# 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

**DOT (US)** Not regulated.

**IMDG** Not regulated.

**IATA** Not regulated.

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not regulated.

**SARA 304 Emergency release notification** 

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Laballey.com Page 8 of 10

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

# **Safe Drinking Water Act**

Not regulated.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Not listed.

#### **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

#### **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Issue date: 08/01/2024 Revision 1: 11/18/2024

## **SECTION 17: Disclaimer**

Laballey.com Page 9 of 10

The information provided on this Safety Data Sheet 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 process, unless specified in the text.

Laballey.com Page 10 of 10