

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

#### SECTION 1. IDENTIFICATION

**Product name** : Citric Acid FCC USP Fine Granular  
**Synonyms** : 2-Hydroxy-1,2,3-propanetricarboxylic acid, monohydrate; Citric Acid Anhydrous

#### Recommended use of the chemical and restrictions on use

**Recommended use** : Industrial chemical

**Restricted Uses** : No data available

#### Manufacturer or supplier's details

**Company** : Univar Solutions Canada Ltd.  
**Address** : 9800 Van Horne Way  
Richmond, BC V6X1W5  
Canada

#### Emergency telephone number:

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

**Additional Information:** : Responsible Party: Product Compliance Department  
E-mail: SDSNA@univarsolutions.com  
SDS Requests: 1-855-429-2661  
Website: www.univarsolutions.com

#### SECTION 2. HAZARD IDENTIFICATION

#### Hazardous Classification of the substance or mixture

**Combustible dust** : Category 1

**Eye irritation** : Category 2A

#### Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : May form combustible dust concentrations in air.  
H319 Causes serious eye irritation.

**Precautionary statements** : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear 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.

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Hazardous components

CAS-No.	Chemical name	% by Weight	Synonyms
77-92-9	Citric acid	90 - 100	Citric acid

The exact ranges of this mixture are being withheld due to a Trade Secret.

**Molecular formula** : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>

### SECTION 4. FIRST-AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use an extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Avoid dust formation.<br>Avoid breathing dust.                    |
| Environmental precautions   | : | Prevent further leakage or spillage if safe to do so.   |
| Methods and materials for containment and cleaning up               | : | Neutralize with chalk, alkali solution or ammonia.<br>Keep in suitable, closed containers for disposal. |

#### SECTION 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.  |
| Advice on safe handling                         | : | Avoid formation of respirable particles.<br>Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage                     | : | Keep container tightly closed in a dry and well-ventilated place.<br>Electrical installations / working materials must comply with the technological safety standards.   |
| Materials to avoid                              | : | Do not store near acids.   |

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

- |                          |   |   |
|--------------------------|---|---|
| Respiratory protection   | : | No personal respiratory protective equipment normally required.   |
| Hand protection          |   |   |
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.   |
| Eye protection           | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems.       |
| Skin and body protection | : | Dust impervious protective suit<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                                |

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid, crystalline, granules
Colour	: clear, white
Odour	: odorless
Odour Threshold	: No data available
pH	: 2 - 2.5 (as aqueous solution)
Freezing Point (Melting point/range)	: 98 - 153 °C (208 - 307 °F)
Boiling Point (Boiling point/boiling range)	: Decomposition: Decomposes below the boiling point.
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: No data available
Relative density	: 1.665Reference substance: (water = 1)
Density	: No data available
Solubility(ies)	
Water solubility	: soluble in cold water
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 1,010 °C
Thermal decomposition	: > 170 °C

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization. Dust may form explosive mixture in air. Stable under recommended storage conditions.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Copper Zinc aluminum metals subject to acid corrosion Oxidizing agents Reducing agents Bases metal nitrates

**Safety Data Sheet**  
**Citric Acid FCC USP Fine Granular**

Version 1.3

Revision Date: 08/02/2021

Hazardous decomposition products : Alkalis carbonates  
: carbon dioxide and carbon monoxide

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Skin corrosion/irritation****Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product:**

Remarks: Irritating to eyes.

**Components:****77-92-9:**

Species: Rabbit

Result: Irritating to eyes.

**Aspiration toxicity****Product:**

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

#### Other adverse effects

##### **Product:**

Additional ecological information : No data available

---

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

---

### SECTION 14. TRANSPORT INFORMATION

**TDG (Transportation of Dangerous Goods):** Not regulated as a dangerous good

#### **UNRTDG**

Not regulated as a dangerous good

**IATA (International Air Transport Association):** Not regulated as a dangerous good

**IMDG-Code:** Not regulated as a dangerous good

---

### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

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

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

PICCS : On the inventory, or in compliance with the inventory

IECS : On the inventory, or in compliance with the inventory

#### SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

**Revision Date** : 08/02/2021

**Legacy SDS:** : R0003677

**Material number:**

16178755, 16152237, 16158155, 16124969, 16061521, 16058150, 16019563, 754734, 719350, 703221, 206073, 206072, 142089, 127692, 70061, 102717, 87060, 54186, 70568, 54299, 85747, 501345, 20382, 20381

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value

## Safety Data Sheet

### Citric Acid FCC USP Fine Granular

Version 1.3

Revision Date: 08/02/2021

IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		