


Section 1. Product and Company Information

Product: Citric Acid
Company: Ingredient Supplier
13320 Emmett Rd.
Houston, TX 77041
USA
Phone: (832) 795-6898
Product Name: **Citric Acid**
CI#: N/A
Synonym: N/A
Recommended Use: N/A
Prepared By: Ingredient Supplier
13320 Emmett Rd.
Houston, TX 77041
USA
Emergency Contact Number CHEMTREC - USA (English)
Local Number (National): +1-800-424-9300
Toll-Free Number: 1-800-424-9300

Section 2. Hazard Identification

Classification of the Chemical: Skin Corrosion/Irritation 2(H315)
Serious Eye Damage/Eye Irritation Category 2 (H319)
Specific Target Organ Toxicity –Single Exposure Category 3 (H335)
Label Elements: No data available.
Pictogram(s): 
Signal Word: Warning.
Hazard Statements: Causes skin irritation.
Causes serious eye irritation.

May cause respiratory irritation.

Precautionary Statements:

Prevention:

Wash contacted area thoroughly after handling.
Wear protective gloves
Wear eye protection/face protection.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.

Response:

If on skin: Wash with plenty of Water.
Take off contaminated clothing and wash it before reuse.
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.
If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage:

Call a poison center/doctor if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Description of any Hazards Not Otherwise Classified:

No information available.

Ingredient with Any Unknown Acute Toxicity:

No data available.

Section 3. Composition / Information on Ingredients

Chemical Name: Citric Acid
Common Name and Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid
CAS Number and Other Unique Identifiers: 77-92-9
Molecular Weight: 192.12
Chemical Formula: H3C6H5O7
Concentration: 99 - 100%
Hazardous Impurities and Stabilizing Additives: ≤1%

Section 4. First Aid Measures

Description of First Aid Measures

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Most Important Symptoms/Effects, Acute and Delayed:	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Immediate Medical Attention and Special Treatment:	Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically.

Section 5. Fire Fighting Measures

Extinguishing Media:	Suitable extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide. Unsuitable extinguishing media: No information available.
Special Hazards Arising from the Chemical:	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special Protective Equipment and Precautions for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	Ventilate area of leak or spill. Remove all sources of ignition. Do not breathe in granules. Avoid contact with skin, eyes and clothing.
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Methods and Materials for Containment and Cleaning Up: Seal leak. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7. Handling and Storage

Precautions for Safe Handling: Use only in well-ventilated areas.
 Keep container tightly closed.
 Do not use unlabelled containers.
 Avoid contact with skin and eyes.
 Do not breathe in granules.
 Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container, stored in a cool, dry, ventilated area

Section 8. Exposure Controls / Personal Protection

Control Parameters

Component	OSHA		NIOSH	
	PEL-TWA	PEL-STEL	REL-TWA	REL-STEL
Citric Acid	None	Established	None	Established

Appropriate Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Protective Equipment

Respiratory Protection: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Hand Protection:	Wear appropriate gloves when handling.
Eye/Face Protection:	Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Skin/Body Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Section 9. Physical and Chemical Properties

Appearance	White granules
Odor:	Odorless
Odor Threshold:	Not available.
pH:	2.2 (0.1 N sol)
Melting Point/Freezing Point:	153°C (307°F)
Initial Boiling Point and Boiling Range:	No boiling point is available due to substance decomposition.
Flash Point:	345 °C
Evaporation Rate:	Not available.
Flammability:	Not available.
Upper/Lower Flammability or Explosive Limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density:	1.665 @ 20°C/4°C
Solubility(ies):	ca. 60 g/100 ml @ 20°C(Anhydrous)
Partition Coefficient: N-Octanol/Water:	Not available.
Auto-Ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
% Volatiles By Volume @ 21C (70F):	0

Section 10. Stability and Reactivity Data

Reactivity:	Stable under recommended storage and handling conditions (see section 7, handling and storage).
Chemical Stability:	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.

Conditions to Avoid:	Heat, flames, ignition sources and incompatibles.
Incompatible Materials:	Metal nitrates (potentially explosive reaction), alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys.
Hazardous Decomposition Products:	Carbon monoxide (CO), carbon dioxide (CO ₂).

Section 11. Toxicological Information

Information on the Likely Routes of Exposure

Inhalation:	Irritating.
Ingestion:	Irritating.
Skin Contact:	Irritating.
Eye Contact:	Irritating.
Acute Toxicity	Oral: LD ₅₀ =5400 mg/kg bw (mouse) Dermal: LD ₅₀ > 2000 mg/kg bw(rat)
Skin Irritation/Corrosion:	Causes skin irritation.
Serious Eye Damage/Eye Irritation:	Causes serious eye irritation.
Respiratory Sensitization:	No data available.
Skin Sensitization:	No data available.
Carcinogenicity:	Not classified.
Germ Cell Mutagenicity:	No data available.
Reproductive Toxicity	No data available.
STOT - Single Exposure:	May cause respiratory irritation.
STOT - Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.

Section 12. Ecological Information

Ecotoxicity:	No data available.
Persistence and Degradability:	Based on best current information, there is no data known associated with this product.
Bioaccumulative Potential:	Based on best current information, there is no data known associated with this product.
Mobility in Soil:	Based on best current information, there is no data known associated with this product.
Other Adverse Effects:	No information available.

Section 13. Disposal Consideration

Safe Handling and Methods of Disposal Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14. Transportation Information

UN Number: Not regulated
 UN Proper Shipping Name: Not regulated
 Transport Hazard Class(es): Not regulated
 Packing Group (if applicable): Not regulated
 Marine Pollutant (Yes/No): Not regulated
 Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not regulated
 Special Precautions: Not regulated

Section 15. Regulatory Information

Safety, Health and Environmental Regulations Specific for the Product in Question

CAS No.	USA	EU	Korea	China	Canada
	TSCA	EINECS	ECL	IECSC	DSL
77-92-9	Listed	Listed	Listed	Listed	Listed

Remark: The above-mentioned search results are based on the Non-Confidential Inventory.

Section 16. Other Information

Preparation and Revision Information

Date of previous revision: Not applicable.
 Revision summary: The first New SDS

Date of this revision: 01/01/2021

Abbreviations and Acronyms

NIOSH	The National Institute for Occupational Safety and Health
OSHA	The United States Occupational Safety and Health Administration.
TWA	Time-weighted average
STEL	Short term exposure limit
TSCA	Toxic Substances Control Act, The American chemical inventory.
DSL	Domestic Substances List
EINECS	European Inventory of Existing Commercial chemical Substances
ECL	Existing Chemicals List, the Korean chemical inventory.
IECSC	Inventory of existing chemical substances in China.

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

Date of Issue: 12/08/2022
Reason of Issue: Revision
Prepared by: Ingredient Supplier
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 Houston, Texas 77041
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For INGREDIENT SUPPLIER

Chris Hill

(AUTHORIZED SIGNATORY)