



SAFETY DATA SHEET

Version 3

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Citric Acid 50% FCC
Recommended Use Industrial, Manufacturing or Laboratory use.
Company Name:
Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

Emergency Telephone:
CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

Serious eye damage/eye irritation	Category 1
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Signal Word: Danger

Hazard Statements:

- Causes serious eye damage

Physical Hazards

- None

Precautionary Statements:

- Wear protective gloves/protective clothing/eye protection/face protection
- Immediately call a POISON CENTER or doctor/physician
- Call a POISON CENTER or doctor 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 skin irritation occurs: Get medical advice/attention

3. Composition / Information on Ingredients

Hazardous

Chemical Name	CAS No	Weight-%	EC No
Citric acid	77-92-9	50	Present

4. First Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact: If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

900727 Citric Acid 50% FCC

Ingestion:	Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required.
Note to Physicians:	Treat symptomatically.
Self-protection of the First Aider:	Use personal protective equipment as required.

5. Fire-fighting Measures

Flammable Properties:

Not considered to be a fire hazard

Explosive Properties:

Not considered to be an explosion hazard

Suitable Extinguishing Media:

Water spray (fog), Carbon dioxide (CO₂), Dry chemical, Alcohol resistant foam

Unsuitable Extinguishing Media:

No information available

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions:	Avoid contact with eyes and skin. Use personal protective equipment as required.
Environmental Precautions:	Prevent entry into waterways, sewers, basements or confined areas.
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:	Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. After cleaning, flush away traces with water. Prevent product from entering drains.
Other Information:	Not applicable.

7. Handling and Storage

Advice on Safe Handling:	Use personal protective equipment as required. Use only with adequate ventilation.
Storage Conditions:	Keep container tightly closed. Keep out of the reach of children.
Incompatible Materials:	Metal nitrates (potentially explosive reaction), strong oxidizers, alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys

8. Exposure Controls / Personal Protection

Engineering Controls:	Ensure adequate ventilation, especially in confined areas
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Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles.

Body Protection: Suitable protective clothing.

General Hygiene Considerations:

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Appearance: Clear
Color: Colorless to yellowish
Odor: Odorless
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:		No information available
"Salt Out" Point (°F):		No information available
Melting Point/Freezing Point:	-7 °C / 19 °F	
Boiling Point/Boiling Range:		No information available
Flash Point:		No information available
Evaporation Rate (BuAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		Lower Flammability Limit:
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H₂O=1):		No information available
Specific Gravity (2nd value):		No information available
Water Solubility:		No information available
Solubility(ies):		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available
Decomposition Temperature:		No information available
Kinematic Viscosity:		No information available
Dynamic Viscosity:		No information available
Oxidizing Properties:	No information available	
Explosive Properties:	Not considered to be an explosion hazard	

9.2. Other information

Softening Point: No information available
Molecular Weight: 210.14
VOC Content(%): No information available
Density: 1.23-1.26
Bulk Density: No information available

10. Stability and Reactivity

Stability: Stable under normal conditions of use and storage

Conditions to Avoid: Heat, flames and sparks; Incompatibles; Ignition sources

Incompatible Materials: Metal nitrates (potentially explosive reaction), strong oxidizers, alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys

Hazardous Decomposition Products: Carbon monoxide; Carbon dioxide (CO₂)

Possibility of Hazardous Reactions: None under normal processing

11. Toxicological Information**Product Information**

Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Citric acid	3 g/kg (Rat)		

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

12. Ecological Information

Ecotoxicity

50% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Citric acid		1516: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	

Ceriodaphnia dubia Acute Toxicity Evaluation: Citric Acid 50%: 48-hour NOEC: 250 ppm; 48-hour LOEC: 500 ppm; 48-hour LC50: 329.88 ppm (299.82-362.95 ppm)

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

Chemical Name	Partition Coefficient:
Citric acid	-1.72

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations

14. Transport Information

DOT
Description: Not DOT Regulated

15. Regulatory Information

International Inventories

All of the components in the product are on the following inventory lists: TSCA (United States);, Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL);, China (IECSC), ENCS (Japan);, Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only.

AICS: Complies
 TSCA: Complies
 DSL/NDSL: Complies
 EINECS/ELINCS: Complies
 ENCS: Complies
 IECSC: Complies
 KECL: Complies
 PICCS: Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Citric acid	Listed	Listed	Listed	-	Listed	-	Present	Listed	Present	Present

Inventory Legend

900727 Citric Acid 50% FCC

AICS - Australian Inventory of Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

U.S. State Right-to-Know Regulations

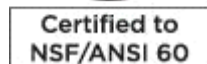
California Proposition 65:
This product does not contain any Proposition 65 chemicals

16. Other Information

National Fire Protection Association (NFPA) Ratings



NSF/ANSI 60 Certification



Maximum Use (mg/L unless otherwise indicated):	N/A
Prepared By:	HSE Department
Issue Date:	28-Jun-2012
Revision Date:	01-Aug-2017
Revision Note:	Reviewed and Re-issued.

Disclaimer:

PLEASE BE ADVISED THAT IT IS YOUR RESPONSIBILITY TO INFORM YOUR EMPLOYEES OF THE HAZARDS OF THIS SUBSTANCE, TO ADVISE THEM OF WHAT THESE PROPERTIES MEAN AND BE SURE THEY UNDERSTAND EXPOSURE INFORMATION. THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION.

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End of Safety Data Sheet