

# SAFETY DATA SHEET

Version 5

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

Product Name Citric Acid 50% FG

Product Code 900728

**Recommended Use** Industrial, Manufacturing or Laboratory use.

Restrictions on Use None known

**Manufacturer** 

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 2

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements



Signal Word: Warning

## **Hazard Statements:**

· Causes serious eye irritation

## **Precautionary Statements:**

- · Wash face, hands and any exposed skin thoroughly after handling
- · Wear eye/ face protection
- 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

## 3. Composition / Information on Ingredients

Chemical name	CAS No.	Weight-%		
Citric acid	77-92-9	49-51		
Water	7732-18-5	49-51		

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

## 4. First Aid Measures

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin,

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Indication of any immediate medical attention and special treatment needed

## 5. Fire-fighting Measures

surrounding environment.

Large Fire
Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

No information available.

chemical Explosion Data

> Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

fire-fighters

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick

up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

After cleaning, flush away traces with water.

### 7. Handling and Storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

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

Incompatible materials Will corrode copper, zinc, aluminum, and their alloys. Metal nitrates. Strong oxidizing

agents. alkali carbonates and bicarbonates. Potassium tartrate.

## 8. Exposure Controls / Personal Protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Tight sealing safety goggles. Eye/face protection Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product.

### 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

**Physical State:** Liquid

Appearance: Clear, slight yellow liquid Odor: Odorless

Color: Colorless to yellowish **Odor Threshold:** No information available

**Property** Values Remarks • Method

No data available pH: "Salt Out" Point (°F):

No information available

**Melting Point/Freezing Point:** -7 °C / 19 °F

**Boiling Point/Boiling Range:** No information available No information available Flash Point:

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): 1.239 Specific Gravity (2nd value): 1.251

Water Solubility: No information available Solubility(ies): No information available **Partition Coefficient** No information available

(n-octanol/water)

**Autoignition Temperature:** No information available **Decomposition Temperature:** No information available **Kinematic Viscosity:** No information available

**Dynamic Viscosity:** No information available No information available **Oxidizing Properties:** 

**Explosive Properties:** Not considered to be an explosion hazard

9.2. Other information

**Softening Point:** No information available

192.13 **Molecular Weight:** 

No information available VOC Content(%): No information available **Liquid Density** No information available **Bulk density** 

## 10. Stability and Reactivity

Reactivity No information available. Chemical stability Stable under normal conditions. Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Will corrode copper, zinc, aluminum, and their alloys. Metal nitrates. Strong oxidizing

agents. alkali carbonates and bicarbonates. Potassium tartrate.

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2).

### 11. Toxicological Information

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Prolonged contact may

cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes.

Numerical measures of toxicity

No information available

**Acute Toxicity:** 

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

**ATEmix (oral)** 5,882.35 mg/kg **ATEmix (dermal)** 3,925.50 mg/kg

**Unknown Acute toxicity** 

51 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

51 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 51 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

51 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Chemical name Oral LD50 :		LC <sub>50</sub> (Lethal Concentration):		
Citric acid 77-92-9	= 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-		
Water 7732-18-5	> 90 mL/kg(Rat)	-	-		

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

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

IARC or NTP.

Reproductive toxicity No information available.

**STOT - single exposure**No information available.

**STOT - repeated exposure**No information available.

Other Adverse Effects: No information available.

Aspiration hazard

No information available.

## 12. Ecological Information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

	The commental impact of the product has not been fally in testigated.						
Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates			
Citric acid 77-92-9	-	1516: 96 h Lepomis macrochirus mg/L LC50	-	-			

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:

There is no data for this product.

Component Information

Chemical name	Partition Coefficient:
Citric acid	-1.72
77-92-9	

Other Adverse Effects: No information available.

## 13. Disposal Considerations

#### Waste treatment methods

**Contaminated packaging** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Do not reuse empty containers.

## 14. Transport Information

**DOT** 

**Description** Not DOT Regulated

## 15. Regulatory Information

#### **International Inventories**

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

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Citric acid	Present	Present	Present	-	Present	-	Present	Present	Present	Present
		ACTIVE						[25349]		
Water	Present	Present	Present	-	Present	-	Present	Present	Present	Present
		ACTIVE						[32224]		

**Inventory Legend** 

AICS - Australian Inventory of Chemical Substances

#### 900728 Citric Acid 50% FG

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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

## **NSF/ANSI 60 Certification**



Maximum Use (mg/L unless

otherwise indicated):

60

Prepared By: HSE Department

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Revision Note: Reviewed and Re-issued.

#### Disclaimer:

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**