

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name: Citric acid 50% solution

CAS number: 77-92-9

Synonyms: No information available.

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

Identified Uses : Food/Drug - Kosher

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669

U.S.A.

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

1.4 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)

Eye irritation (Category 2A)

Laballey.com Page 1 of 8

2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Warning

Hazard statement(s): Causes serious eye irritation.

Precautionary statement(s): Prevention - Wash skin thoroughly after handling. Wear eye protection/face

protection. **Response** - 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.

Hazards not otherwise classified

None known.

SECTION 3: Composition/information on ingredients

3.1 Components

Ingredient	CAS Number	Percent	Hazardous
			Chemical
Citric acid	77-92-9	50%	No

SECTION 4: First aid measures

4.1 Description of 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.

In case of inhalation: If unconscious, place in recovery position an seek medical advice. If

symptoms persist, call a physician.

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, call

a physician.

In case of skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water

for 15 – 20 minutes. If irritation develops, call a physician.

In case of ingestion: 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.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

Laballey.com Page 2 of 8

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Specific hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. See Section 12 for additional ecological Information.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash hands before breaks and at the end of the workday.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Electrical installations/working materials must comply with the technological safety standards.

Laballey.com Page 3 of 8

SECTION 8. Exposure controls/personal protection

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

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

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. Tightly fitting safety goggles. Eye wash bottle with pure water.

Skin and body protection

Wear appropriate protective gloves and clothing (impervious clothing) to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. See Section 12 for additional ecological Information.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid.

Appearance Clear to Light yellow.

Odor Odorless.
Odor Thresh Not available.
pH Not available.

Melting Point/Range-9.44 °C (15 °F)Boiling Point/Range> 100 °C (212 °F)Flash PointNot available.Evaporation RateNot available.Flammability (solid, gas)Not available.

Flammability or explosive limit

Upper : NA Lower : NA

Laballey.com Page 4 of 8

Vapor Pressure Not available. **Vapor Density** Not applicable. F€ÌHGJÁàÐæ Density Ùľľàl^Á§Áæe^¦È Solubility Partition coefficient; n-octanol/water Þ[oÁseçæálæá]^È FÌÍ€ÄÏØÁGF€F€ÄÏÔD **Autoignition Temp Decomposition Temp** Not available. Not available. **Viscosity** C6H8O7 Molecular Formula 192.13 **Molecular Weight VOC Content(%)** Not available. **Oxidizing properties** Not oxidizing.

9.2 Other safety information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

Nod dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Keep away from heat, flam, spark and other ignition sources. Keep away from incompatible materials.

10.5 Incompatible materials

Metals, nitrites, oxidizing agents, reducing agents, strong bases.

10.6 Hazardous decomposition products

Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric acid	5040 mg/kg(Mouse) 6730 mg/kg(Rat)	Not listed	Not listed

Skin corrosion/irritation

Causes skin irritation.

Laballey.com Page 5 of 8

Serious eye damage/eye irritation

Serious eye damage/eye irriation.

Respiratory or skin sensitization

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

No information available.

11.2 Additional information

None.

SECTION 12. Ecological information

12.1 Toxicity

Ecotoxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulative Potential

No information available.

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No information available.

Laballey.com Page 6 of 8

12.7 Other adverse effects

No additional information available.

SECTION 13. Disposal considerations

13.1 Waste Disposal Methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Hazardous Waste Code - D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: Transport information

DOT

UN-No Not Regulated

Proper Shipping Name Hazard Class

Subsidiary Hazard Class

Packing Group

IATA

UN-No Not Regulated.

Proper Shipping Name

Hazard Class

Subsidiary Hazard Class

Packing Group

IMDG/IMO

UN-No Not Regulated.

Proper Shipping Name

Hazard Class

Subsidiary Hazard Class

Packing Group

TDG

UN-No Not Regulated.

Proper Shipping Name

Hazard Class

Subsidiary Hazard Class

Packing Group

SECTION 15: Regulatory information

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that

exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section

313.

Laballey.com Page 7 of 8

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Sec-tion 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Inter-mediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

7732-18-5 Water 77-92-9 Citric acid

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer,

birth defects, or any other re-productive harm.

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

TSCA (Toxic Substance Control Act) : On the inventory, or in compliance with the inventory

DSL (Canada - Domestic Substances List) : All components of this product are on the Canadian DSL

AICS (Australia - Inventory of Chemical Substances) : On the inventory, or in compliance with the inventory

NZIoC (New Zealand Inventory of Chemicals) : Not in compliance with the inventory

ENCS (Japan - Inventory of Exisiting Chemical Substnaces) : On the inventory, or in compliance with the inventory

KECI (Korea - Exisiting Chemical Inventory) : On the inventory, or in compliance with the inventory

PICCS (Phillippines Inventory of Commercial Chemical Substances): On the inventory, or in compliance with the inventory

IECSC (Inventory of Existing and New Chemical Substances) : On the inventory, or in compliance with the inventory

SECTION 16: Other information

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Disclaimer:

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 8 of 8