



Safety Data Sheet

Inhibited Citric Acid 50%

Section 1 Identification

Trade Name: Inhibited Citric Acid 50% **Date Prepared:** 12/22/2015
Product Identification: GLA-CSAR50I
Synonyms: None **CAS No:** Mixture
Product Use Description:
Industrial Acidic Cleaner

Details of the supplier of the safety data sheet

G.L.A Water Inc.
17802 Rapids Road **Phone:** (440) 834-8435
HIRAM, OH 44234 US **website:** www.glawater.com

Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)
(352) 323-3500

Section 2 Hazards Identification

GHS Classification: Serious Eye Damage/Irritation Category 2

GHS label elements:



Irritant

Signal Word: Warning

Hazard Statements:

H319 Causes serious eye irritation

Precautionary Statements:

Prevention

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves, protective clothing and eye protection or 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 attention.

Hazards Not Otherwise Classified (HNOC):

None.

Additional Information:

None.

Section 3 Composition

Chemical Name	Common name and synonyms	CAS #	%
---------------	--------------------------	-------	---

Trade Name: Inhibited Citric Acid 50%
SDS ID: SDS00735

SDS #: GLA-CSAR50I
Revision # 1

Page 1 of 6
Revision Date 12/22/2015



Safety Data Sheet

Inhibited Citric Acid 50%

Citric Acid

77-92-9

45 - 50

Section 4 First Aid

General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

Skin contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Thoroughly wash with soap and water. Seek medical attention if irritation develops or persists.

Eye contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek immediate medical attention.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop.

Most important symptoms and effects both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire or source of fire. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media:

No information available.

Specific hazards developing from the chemical:

In fire conditions after water loss, combustion may produce carbon monoxide, carbon dioxide and other unidentified combustion products.

Precautions for firefighters:

No information available.

Firefighting Instructions:

No information available.

Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

Other information:

No additional information available.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.

Methods and material for containment and cleaning up:

Neutralize with appropriate alkaline material if possible. Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

Section 7 Handling and Storage

Precautions for safe handling:



Safety Data Sheet

Inhibited Citric Acid 50%

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Conditions for safe storage, including any incompatibilities:

Store in original container. Keep container tightly closed. Store at room temperature (50-90 F) in a dry well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Exposure limits:

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
citric acid	ACGIH TLV		5 mg/m3	

Appropriate Engineering Controls:

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

Individual protection measures:

Eye/face protection:

Safety glasses or chemical goggles should be worn when handling this material.

Skin protection:

Hand Protection:

Wear chemical resistant gloves when handling.

Other:

Wear chemical resistant apron when handling.

Respiratory Protection:

Wear respiratory protection if mist or vapor is produced, while using this material.

General hygiene considerations:

Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

Additional information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	Clear Colorless Liquid
Odor	Mild
Odor threshold	Not available.
pH	1.5
Melting/freezing point	Not available.
Initial boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Complete
PC: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	1.24



Safety Data Sheet

Inhibited Citric Acid 50%

Section 10 Stability and Reactivity

Reactivity :	Not reactive under normal use conditions.
Chemical stability :	Material is stable under normal handling and storage conditions.
Hazardous reactions :	Hazardous polymerization will not occur under normal handling and storage.
Conditions to avoid :	Avoid excessive heating, freezing and chemical contamination.
Decomposition products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible materials:	Avoid contact with oxidizers and strong bases.

Section 11 Toxicological Information

Information on the likely routes of exposure:

Inhalation:

No information available.

Skin Contact:

No information available.

Eye Contact:

Contact with material may irritate the eyes.

Ingestion:

No information available.

Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

Delayed and chronic effects:

No information available.

Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
citric acid:				
Oral	LC50	Rat	11,700 mg/kg	
Dermal	LC50	Rat	>2000 mg/kg	

Toxicological effects:

Acute Toxicity:

Mixture:

No information available.

Skin Corrosion/Irritation:

Mixture:

No information available.

Serious Eye Damage/Irritation:

Mixture:

No information available.

Respiratory sensitization:

Mixture:

No information available.

Skin sensitization:

Mixture:

No information available.

Germ cell mutagenicity:

Mixture:

No information available.

Carcinogenicity:

Mixture:

This product is considered to be a potential carcinogen by:

NTP: No

OSHA: No

IARC: No

Reproductive toxicity:

Mixture:

This product is not expected to cause reproductive and developmental effects.



Safety Data Sheet

Inhibited Citric Acid 50%

STOT-single exposure:

Mixture:
No information available.

STOT-repeated exposure:

Mixture:
No information available.

Aspiration hazard:

Mixture:
This product is not an aspiration hazard.

Additional information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical measures of ecotoxicity:

Components	Type	Species	Dose	Notes
citric acid:				
Fish	LC50	Leuciscus idus	440 mg/l	
Invertebrates	EC50	Daphnia magna	1535 mg/l	
Algae	NOEC	Fresh Water Algae	425 mg/l	

Persistence and degradability:

Mixture:
No information available.

Bioaccumulative potential:

Mixture:
No information available.

Mobility in soil:

Mixture:
No information available.

Other adverse effects:

Mixture:
No information available.

Additional information:

No information available.

Section 13 Disposal Considerations

Disposal instructions:

Dispose of material in accordance with all federal, state and local regulations.

Contaminated packaging:

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

Additional Information:

No additional information available.

Section 14 Transport Information

DOT:

Not classified.

Section 15 Regulatory Information

Federal regulations:**SARA 311/312 Hazard categories:**

Immediate (Acute) Health Hazard

SARA 302 Extremely hazardous substance:

Trade Name: Inhibited Citric Acid 50%
SDS ID: SDS00735

SDS #: GLA-CSAR50I
Revision # 1

Page 5 of 6
Revision Date 12/22/2015



Safety Data Sheet

Inhibited Citric Acid 50%

Not listed.

SARA 304 Emergency release notification:

Not regulated.

SARA 311/312 Hazardous chemical:

No

SARA 313 Toxic Release Inventory (TRI) report:

Not regulated.

CERCLA Hazardous substance list:

Not Listed.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

This chemical is not a pesticide product.

Clean Air Act regulated substances:

None.

Clean Water Act regulated substances:

None.

U.S. state regulations:

None.

Canadian regulations:

Canadian Ingridient Disclosure List substances:

None listed.

WHMIS classification:

Not classified.

Section 16 Other Information

HMIS hazard ID:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

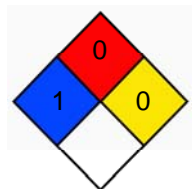
NFPA hazard ID:

Flamability:

Health:

Reactivity:

Special hazard:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer:

This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

Issue Date: 12/22/2015

Revision: 1