

SAFETY DATA SHEET

Citric Acid Solution 35%

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Printed: 04/21/2015
Revision: 12/22/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: HIGHSI-005-BULK
Product Name: Citric Acid Solution 35%
Company Name: High Sierra
P. O. Box 848
Chippewa Falls, WI 54729
Phone Number: +1 (715)723-4915
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word: **Warning**
GHS Hazard Phrases: H302 - Harmful if swallowed.
H316 - Causes mild skin irritation.
H319 - Causes serious eye irritation.
GHS Precaution Phrases: P102 - Keep out of reach of children.
P103 - Read label before use.
P264 - Wash hands thoroughly after handling.
P262 - Do not get in eyes, on skin, or on clothing.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection.
Take any precaution to avoid mixing with alkaline or chlorinated products.
GHS Response Phrases: P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 - Get immediate medical advice/attention.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes. P332+313 - If skin irritation occurs, get medical advice/attention. P363 - Wash contaminated clothing before reuse.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342 - If experiencing respiratory symptoms: P313 - Get medical advice/attention.
GHS Storage and Disposal Phrases: P501 - Dispose of contents/container in accordance to local, state and federal regulations.
OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation.
Eye Contact: Causes eye irritation.
Ingestion: May be harmful if swallowed.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
77-92-9	Citric acid	<40.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. Get medical advice/attention.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

In Case of Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.

Signs and Symptoms Of Exposure: Vomiting, Diarrhea. Damage to tooth enamel. Dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: NA Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NA

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Observe all federal, state, and local environmental regulations.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Use with adequate ventilation.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container closed when not in use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
77-92-9	Citric acid	No data.	No data.	No data.
Respiratory Equipment (Specify Type):		Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Eye Protection:		Wear chemical splash goggles.		
Protective Gloves:		Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.		
Other Protective Clothing:		Wear appropriate protective clothing to prevent skin exposure.		
Engineering Controls (Ventilation etc.):		Safety shower and eye bath.		
Work/Hygienic/Maintenance Practices:		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid		
Appearance and Odor:	Liquid.		
	Colorless to very light yellow.		
	Transparent.		
Melting Point:	No data.		
Boiling Point:	NA		
Autoignition Pt:	NA		
Flash Pt:	NA	Method Used:	Estimate
Explosive Limits:	LEL: No data.		UEL: No data.
Specific Gravity (Water = 1):	1.166 - 1.186		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate:	No data.		
Solubility in Water:	No data.		
Percent Volatile:	No data.		

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Extremes of temperature and direct sunlight. Incompatible materials.
Incompatibility - Materials To Avoid:	Oxidizing agents, Bases, Reducing agents, metals, chlorine.
Hazardous Decomposition or Byproducts:	No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

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11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No data available.					
	Mutagenicity: No data available.					
	Neurotoxicity: No data available.					
	Reproductive Effects: No data available.					
	Teratogenicity: No data available.					
Irritation or Corrosion:	Other Studies: CAS# 77-92-9:					
	Acute toxicity, LD50, Oral, Rat, 3000.0 mg/kg					
Carcinogenicity/Other Information:	Other Studies: CAS# 77-92-9:					
	Standard Draize Test, Skin, Species: Rabbit, 500.0 mg, 24H					
	Standard Draize Test, Eyes, Species: Rabbit, 750 ug, 24H					
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.					
	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.					
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
Carcinogenicity:	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.					
	NTP? No IARC Monographs? No OSHA Regulated? No					
	CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
	77-92-9	Citric acid	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information:	Environmental: No information available. Physical: No information available.
Results of PBT and vPvB assessment:	Other Studies: CAS# 77-92-9: LC50, Carp (Leuciscus idus ssp. melanotus), 440 mg/l, 48 H, Mortality
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.
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14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
77-92-9	Citric acid	No	No	No

CAS # Hazardous Components (Chemical Name)

77-92-9 Citric acid

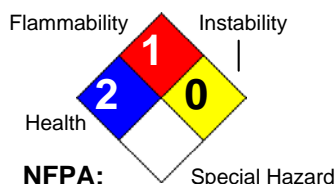
Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:
No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No;
NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

Revision Date: 12/22/2014

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While High Sierra believes the statements set forth herein are accurate as of the date hereof, High Sierra makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.