

Material Safety Data Sheet Citric Acid-Liquid

Section 1. Chemical Product and Company Identification

Product Name	Citric Acid-Liquid	
Product Number	NTA CA50	
Manufacturer/ Supplier	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
Phone Number	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
D.O.T. Emergency Phone:	1-800-633-8253	
Date of Preparation	September 27, 2012	Revision Number 1.0

Section 2. Hazards Identification

Emergency overview **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

DANGER!

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the workstation location. S24/25- Avoid contact with skin and eyes.

Potential Acute Health Effects Corrosive to skin and eyes on contact, liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, Characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.

Routes of Entry Eye Contact, Skin contact, Ingestion, INHALATION.

Eyes May cause irritation and burning.

Skin Acute exposure can cause burns and be destructive to the skin

Inhalation May severely burn the respiratory tract

Ingestion May cause irritation if swallowed

Medical conditions aggravated by exposure: Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Potential Chronic Health None

Carcinogenic Effects None

Target Organs

Environmental Effects Not available

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Citric Acid	77-92-9	50%		

Section 4. First Aid Measures

Eye Contact	SEEK IMMEDIATE MEDICAL ATTENTION. Preferably an optometrist. IMMEDIATELY flush eyes with running water for at least 15 to 20 minutes, keeping eyelids open. Repeat once or twice at 15 minute intervals. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. To alleviate pain until physician arrives 2 drops of 0.5% "Pontocaine" hydrochloride solution into eye. No oil or oily ointments should be used unless directed by a doctor.
Skin Contact	Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. See a physician.
Inhalation	Immediately remove patient from contaminated atmosphere. Administer oxygen as soon as possible. Call a physician. If not breathing give artificial respiration.
Ingestion	Call a poison control center IMMEDIATELY for treatment advice. DO NOT induce vomiting! Have conscious person sip a glass of water as soon as possible followed by milk or 2oz of milk of magnesia to drink to soothe the burning effect. See a physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
Notes to Physician	Not available

Section 5. Fire Fighting Measures

Flammability	Non flammable
Fire Fighting Media and instructions	water fog, foam, carbon dioxide
Products of Combustion	Not available
Special Remarks on Fire Hazards	Product is non-flammable; however, it can react with metals to produce hydrogen, a flammable gas. The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed
Special Remarks on Explosion Hazards	Product is non-flammable, However, it can react with metals to produce hydrogen, a flammable gas. The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed
Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	Not available
Protection of Fire Fighters	See special remarks on Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions	Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Do not breath vapor, get in eyes, on skin or on clothing. Keep personel up wind of spill and do not enter area unless equipped with full protective equipment and self contained breathing apparatus.
Methods for Containment	Corrosive liquid. Avoid to runoff to sewers and waterways. Water protective clothing. Absorb with inert material. Contact your local Emergency planning commission for further instructions. Absorb with an in inert material and put the spilled material in an appropriate waste disposal.
Environmental Precautions	See Methods for Containment
Methods for Clean Up	See Methods for Containment

Section 7. Handling and Storage

Precautions	Keep locked up. Keep container dry. DO NOT INGEST. Do not breath the gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Incompatibility	Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents. Incompatible with alcohols and wide variety of metals
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use or storage in or around the home. Keep out of reach of children. For Institutional and Commercial Use. Store in a well ventilated building or shed.

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	
Personal Protection	Good general ventilation should be sufficient to control airborne levels.
Eyes	Splash goggles and Face Shield.
Body	Rubber boots. In considerable exposure a full rubber suit should be used. Eye wash fountain and safety shower is highly recommended. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Respiratory	Wear U.S bureau of mines approved respirator
Hands	Impervious gloves
Protective Clothing (Pictograms)	



Exposure Limits

No Exposure guidelines have been established

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear Liquid
Molecular Weight	N/A
Ph	0.5 to 1.0
Boiling/Condensation Point	Approx. 150 F
Melting/Freezing Point	N/A
Critical Temperature	N/A
Instability Temperature	N/A
Specific Gravity	(H2O = 1): 1.09
Vapor Pressure	(Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density	(Air = 1)
Volatility	N/A
VOC	N/A
Evaporation Rate	(H2O = 1): N/A
Dispersion Properties	N/A
Solubility	Complete in water
The Product is:	Acidic Liquid
Auto-ignition Temperature	N/A
Flash Points	N/A
Flammable Limits	Not applicable
Fire Hazards in Presence Of Various Substances	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas
Explosion Hazards in Presence of Various Substances	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Neutralize with lime and flush with water. Run off to sewer may create a hazard in the case of large spills; notify authorities.

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)

TDG Classification

PIN UN, Proper Shipping Name, PG Shipping Name: Not regulated

Maritime Transportation Not available

Special Provisions for Transport Not available

Section 15. Regulatory Information and Pictograms

Regulatory Lists No products were found

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications **HCS (U.S.A.)** HCS Class: Corrosive Liquid. HCS Class: Toxic.

USA Regulatory Lists This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)
 SARA 302 Extremely Hazardous Substances - Not listed
 SARA 311 - 1. Immediate (acute) health hazard
 SARA 313 Toxic Chemical List – Not listed

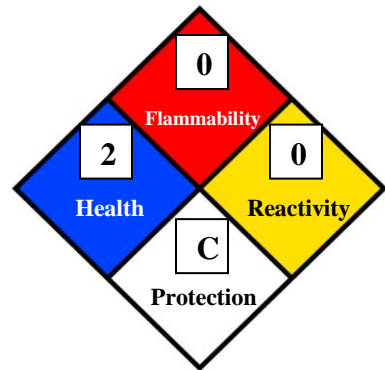
DSD (EEC) R22- Harmful if swallowed.
 R35- Causes severe burns.

International Regulations Lists No Products were found.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



WHMIS (Classification) WHMIS CLASS E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

