



# NAPCO CHEMICAL COMPANY

## Safety Data Sheet NAPCO 50% Citric Acid

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	NAPCO 50% Citric Acid
Substance name	Citric Acid
CAS no.	77-92-9

#### 1.4 Supplier's details

Name	NAPCO Chemical Company
Address	2830 Spring Cypress Rd Spring, Tx 77383 United States
Telephone	281-651-6800
Fax	281-651-6868

#### 1.5 Emergency phone number(s)

ChemTel 1(800)255-3924

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

**GHS classification in accordance with OSHA (29 CFR 1910.1200)**  
- Eye damage/irritation (chapter 3.3), Cat. 2A

#### 2.2 GHS label elements, including precautionary statements

##### Pictogram



##### Signal word

**Warning**

##### Hazard statement(s)

H319

Causes serious eye irritation

##### Precautionary statement(s)

P264

P280

Wash ... thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

# Safety Data Sheet

## NAPCO 50% Citric Acid

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 advice/attention.

### 2.3 Other hazards which do not result in classification

None known.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name

Citric Acid

CAS no.

77-92-9

Impurities and stabilizing additives

Other components below reportable levels.

#### Hazardous components

##### 1. CITRIC ACID

Concentration

48 - 52 %

CAS no.

77-92-9

##### 2. WATER

Concentration

48 - 52 %

CAS no.

7732-18-5

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move to fresh air. Consult a physician if you feel unwell.

In case of skin contact

Wash off with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Drink 1 to 2 glasses of water to dilute swallowed material. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Never give anything by mouth to an unconscious person. Consult a physician or poison control center immediately.

Personal protective equipment for first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.2 Most important symptoms/effects, acute and delayed

Serious eye damage/eye irritation.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide ( CO<sub>2</sub>).

# Safety Data Sheet

## NAPCO 50% Citric Acid

### 5.2 Specific hazards arising from the chemical

Oxides of carbon.

### 5.3 Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Further information

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Explosion hazards from generation of dust.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas upwind of spill/leak. For personal protection see section 8.

### 6.2 Environmental precautions

Avoid discharge into drains, water courses or sewage.

### 6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material such as clay or vermiculite and place into containers for later disposal. Dispose in suitable waste container.

#### Reference to other sections

Never return spills to original containers for re-use. For waste disposal see section 13 of the SDS.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container in a dry, cool and well ventilated area.

Keep away from strong oxidizing substances and strong alkalis.

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety glasses with side shields.

# Safety Data Sheet

## NAPCO 50% Citric Acid

### Skin protection

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of the workday. Wear appropriate chemical resistant gloves if in direct contact with product.

### Body protection

Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long sleeved clothing. Consult PPE manufacturer for chemical resistant information.

### Respiratory protection

Provide adequate ventilation. Wear proper respirator where dust levels exceed 10 mg/m<sup>3</sup>.

### Thermal hazards

Not applicable.

### Environmental exposure controls

Do not allow to enter drains, sewers or watercourses.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Liquid/White to yellow
Odor	None
Odor threshold	Not available.
pH	<1.25
Melting point/freezing point	-10-15 C
Initial boiling point and boiling range	>100C
Flash point	Not available.
Evaporation rate	<1 (butyl acetate=1)
Flammability (solid, gas)	Not available.
Upper/lower flammability limits	Not available.
Upper/lower explosive limits	Not available.
Vapor pressure	17.5 (mm of Hg) @ 20C
Vapor density	.6 (air=1)
Relative density	Not available.
Solubility(ies)	Complete.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not Oxidizing.

### Other safety information

The physical data included above are typical values and should not be construed as a specification.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts with alkaline.

### 10.2 Chemical stability

Stable under recommended storage conditions.

# Safety Data Sheet

## NAPCO 50% Citric Acid

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Isolate from oxidizers, heat and open

### 10.5 Incompatible materials

Sodium nitrite and potassium.

### 10.6 Hazardous decomposition products

Oxides of carbon.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Cause serious eye irritation.

#### Skin corrosion/irritation

May cause burns with prolonged contact.

#### Serious eye damage/irritation

May cause redness, tearing, and blurred vision.

#### Respiratory or skin sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### Reproductive toxicity

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

#### Summary of evaluation of the CMR properties

This product is not expected to contribute to any of these properties.

#### STOT-single exposure

Not classified.

#### STOT-repeated exposure

Not classified.

#### Aspiration hazard

Not known.

#### Additional information

None known.

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## SECTION 12: Ecological information

# Safety Data Sheet

## NAPCO 50% Citric Acid

### Toxicity

Not known.

### Persistence and degradability

Biodegradable.

### Bioaccumulative potential

Not known.

### Mobility in soil

Not known.

### Results of PBT and vPvB assessment

No data is available.

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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## SECTION 13: Disposal considerations

### Disposal of the product

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Disposal of contaminated packaging

Dispose according to local regulations.

### Waste treatment

Not known.

### Sewage disposal

Do not allow.

### Other disposal recommendations

None known.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### HMIS Rating

Citric Acid	
HEALTH	2
FLAMMABILITY	0

# Safety Data Sheet

## NAPCO 50% Citric Acid

PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. NAPCO CHEMICAL COMPANY, INC. DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN. NAPCO CHEMICAL COMPANY, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of NAPCO Chemical Company, Inc., and shall be the sole responsibility of the holder or user of the product.