



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Chemical Name	Citric acid
Trade name	Citric acid anhydrous
CAS No.	77-92-9
EINECS No.	201-069-1
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Used as a sour agent, buffering agent and antioxidant in the food industry; a correctant in pharmaceutical industry; used in detergents, buffering and chelating, sizing and as a sequestrant.
Uses advised against	No uses advised against.
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Wynco Provisions LLC. 451 Agnes Drive Tontitown, AR 72770
Telephone	
Fax No	
Contact name	
e mail	
1.4 Emergency telephone number	ChemTel 888-255-3924; Account #MIS005177
CO.,LTD	
Opening hours	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1. Regulation (EC) No. 1272/2008 (CLP)	Warning.H319: Causes serious eye irritation
2.1. Directive 67/548/EEC & Directive 1999/45/EC	Xi; Irritant.R36
2.2 Label elements	
2.2.1 According to Regulation (EC) No. 1272/2008 & 453/2010 (CLP), OSHA HCS 29 CFR 1910.1200	
Hazard Pictogram	
Signal word(s)	Warning
Hazard statement(s)	Causes serious eye irritation
Precautionary statement(s)	
P264 Wash hands thoroughly after handling	
P280 Wear eye protection.	
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.	
2.2.2 According to Directive 67/548/EEC & Directive 1999/45/EC	
Hazard Symbol	
Risk Phrases	R36. Irritating to eye
Safety Phrases	S26. Avoid contact with eyes. In case of contact with eyes, immediately with plenty of water and seek medical advice
2.3 Other hazards	Not known
2.4 Additional Information	Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Composition	%W/W	EC	CAS
Citric acid	99.5 –100.5	201-069-1	77-92-9

3.2 Mixture. Not applicable

SECTION 4: FIRST AID MEASURES



First Aid

For Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

For Skin Contact: Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and take along these instructions.

In case of Ingestion: Never give liquid to an unconscious person.

In case of Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

4.1 Description of first aid measures

Inhalation

Move to fresh air.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If irritation persists, call a physician.

Eye Contact

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

Ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation: Eye Irrit. 2

4.3 Indication of immediate medical attention and special treatment needed

Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.1.2 Unsuitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Oxides of carbon

5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus and wear suitable protective clothing. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

5.4 Additional information

Explosion hazard from the generation of dust.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Do not flush substance into surface water or sewage system.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections

Section 8

6.5 Additional Information

Not known

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Use only in well-ventilated areas. Do not breathe vapours/dust

7.2 Conditions for safe storage, including any incompatibilities

Keep locked up or in an area accessible only to qualified staff

Storage

Store in tightly closed original container in a dry, cool and well ventilated place.




Incompatible materials Keep in original container.
Strong oxidising substances, strong alkalis.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1 Occupational Exposure Limits No values
8.1 Biological limit value No values assigned
8.2 PNECs and DNELs
DNELs - Health No true DNEL for systemic toxicity can be derived. Local effects irritation should be considered.

PNEC/PEC – Environment

Compartment	PN
Aquatic PNEC aqua – freshwater (mg/l)	0.465
PNEC aqua – marine water (mg/l)	0.0465
PNEC freshwater-sediment (mg/kg d.w.)	3.52. (Equivalent to 0.752 mg/kg wwt)
The PNEC marine-sediment mg/kg d.w.	35.2. (Equivalent to 7.52 mg/kg wwt)
Terrestrial (PNEC soil mg/kg d.w.)	34.2
Sewage treatment plant PNEC STP (mg/l)	>1050
Atmospheric Compartment	Not applicable

8.3 Exposure controls Minimise the risk of dust
8.3.1 Appropriate engineering controls Provide adequate ventilation.
8.3.2 Personal protection equipment
Eye/face protection Safety glasses with side-shields

Skin protection (Hand protection/ Other) Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Protective gloves must satisfy the specifications of EU Directive 89/686/EEC and EN 374

Respiratory protection Provide adequate ventilation. Wear respirator where dust level exceeds 10 mg/m3.

Thermal hazards Not applicable
8.3.3 Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses
8.3.4 Hygiene measures Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
 Appearance Solid, crystalline
 Colour White
 Odour Odourless
 pH (Value) 1.75(100g/l)
 Melting Point Approx.153 °C at 1,013 hPa
 Boiling point/boiling range (°C): Decomposes before boiling
 Flash Point (°C) Not known



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Flammability	Non flammable
Density	1.542 g/cm ³ at 20 °C
Solubility (Water)	750 g/L at 20 °C
Solubility (Other)	Soluble in alcohol
Partition Coefficient (Log Kow: -n-Octanol/water)	-0.1 to -1.7
Decomposition Temperature (°C)	Not known
Explosive properties	Not explosive
Oxidising properties	Not oxidising
9.2 Other information	The fraction below 100 µm = 84.1%; the D50 of the fraction below 100 µm = at 31.99 µm.
Granulometry	pKa: 3.13, 4.76 and 6.4 at 25 °C
Dissociation constant	

SECTION 10: STABILITY AND REACTIVITY

10. Reactivity	Reacts with alkaline
10. Chemical stability	Stable under normal
10. Conditions to avoid	Exposure to heat and
10. Incompatible materials	Sodium nitrite, potassium
10. Hazardous Decomposition Product(s)	Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1. Substances	
Acute toxicity	
Ingestion LD50 (mouse)	5050 mg/kg bw
Inhalation	No data
Skin Contact. LD50 (dermal):	>1845 mg/kg bw
Skin corrosion/irritation	Mild skin irritant
Eye Contact	Irritating
Respiratory or skin sensitization –	Not a sensitizer
Mutagenicity	Not a mutagen
Carcinogenicity	Not a carcinogen
Reproductive toxicity	Not a reproductive
STOT - single exposure	Not known
STOT - repeated exposure	Not known
Aspiration hazard	Not known
11.2 Other information	Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
12.1.1 Fish LC50 (48hr)	415 mg/l
12.1.2 D. Magna LC 50 (24hr)	1460 mg/l
12.1.3 Algae NOEC (8 d mat. (nominal) based on cell density)	408 mg/l
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	No expected to bioaccumulate
12.4 Mobility in soil	Not applicable
12.5 Results of PBT and vPvB assessment	Not a PBT or a vPvB
12.6 Other adverse effects	Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Disposal to licensed waste disposal site in accordance with local Waste Disposal
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13.2 Additional Information Authority:
Not known

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID) Not subject to transport regulations.
14.2 Sea transport (IMDG) Not subject to transport regulations.
14.3 Air transport (ICAO/IATA) Not subject to transport regulations.
14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture
15.1.1 EU regulations User to follow EU directives and regulations
Authorisations and/or restrictions on use Not applicable
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. California SCAQMD Rule 443.1 VOC'S:
Vapor Pressure: 0.00kPa at 25 °C
CALIFORNIA PROPOSITION 65:
California Safe Drinking Water and Toxic Enforcement Act of 1986
(Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
15.1.2 National regulations User to follow national regulations

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Version 1.

LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
STOT Specific Target Organ Toxicity
DNEL Derived No Effect Level
PNEC Predicted No Effect Concentration

References:

Chemical Safety Report for citric acid and citrates
Regulation No.

1272/2008 & 453/2010 (CLP),
OSHA HCS 29 CFR 1910.1200

Directive 67/548/EEC & Directive 1999/45/EC

Risk Phrases and Safety Phrases

R36: Irritating to eyes

S26: Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Hazard statement(s) and Precautionary statement(s)

H319: Causes serious eye irritation

P264: Wash hands thoroughly after handling.

P280: Wear eye protection.

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.

Training advice: Ensure staff and workers receive adequate training with regular updates in the handling of chemicals

Additional Information. Not known

Revision Date: 15/05/2015

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