



Safety Data Sheet

Revision Date Mar-05-2015

Item # 11578

Safety Data Sheet 1249

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Citric Acid 50%
UN/ID No. UN3265
Synonyms No information available
Recommended Use Preservative, pH adjustment
Uses advised against Consumer uses: Private households (= general public = consumers).

CONTROLLED DOCUMENT
IF STAMPED IN RED

Company Name
PVS-Nolwood Chemicals, Inc
10900 Harper Ave.
Detroit, MI 48213
(800) 284-9735

24 Hour Emergency Phone Number CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Emergency Overview

DANGER

Hazard statements

Causes serious eye damage
Causes severe skin burns and eye damage

Physical hazards

Do not handle until all hazard precautions have been read and understood



Precautionary statements

Prevention

- Wear eye/face protection
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray

Response

- Wash face, hands and any exposed skin thoroughly after handling
- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage

Disposal

- Wash contaminated clothing before reuse
- Store locked up
- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known.

Other Information

Unknown Acute Toxicity

50.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	Weight-% *
Citric acid	77-92-9	201-069-1	50.5
Water	7732-18-5	231-791-2	49.5

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice

- Immediate medical attention is required

Eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
- Keep eye wide open while rinsing
- Do not rub affected area
- Immediate medical attention is required

Skin Contact

- Immediate medical attention is required
- Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Inhalation

- Remove to fresh air
- Call a physician or poison control center immediately
- If not breathing, give artificial respiration
- If breathing is difficult, give oxygen

Ingestion

- Immediate medical attention is required
- Do NOT induce vomiting
- Drink plenty of water
- Never give anything by mouth to an unconscious person
- Remove from exposure, lie down
- Clean mouth with water and drink afterwards plenty of water
- Call a physician or poison control center immediately

Note to physician

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- Dry chemical, CO2, water spray or alcohol-resistant foam
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

- Caution: Use of water spray when fighting fire may be inefficient
- Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

- The product causes burns of eyes, skin and mucous membranes
- Thermal decomposition can lead to release of irritating and toxic gases and vapors
- In the event of fire and/or explosion do not breathe fumes

Protective equipment and precautions for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing

- Flammable properties** • No information available
Explosive properties • No information available

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** • Evacuate personnel to safe areas
 • Use personal protective equipment as required
 • Avoid contact with skin, eyes or clothing
- Environmental precautions** • Keep people away from and upwind of spill/leak
 • For small spills, absorb material with clay absorbent or other compatible material.
Dispose of the waste material according to local, state and governmental requirements.
 • For large spills, contain the material using barriers of absorbent pigs, clay absorbent or
earth dams.
- Methods for cleaning up** • Dike far ahead of liquid spill for later disposal
 • Soak up with inert absorbent material
 • Take up mechanically, placing in appropriate containers for disposal
 • Clean contaminated surface thoroughly
 • Prevent product from entering drains
 • Dam up
 • After cleaning, flush away traces with water
- Other Information** • No information available

7. HANDLING AND STORAGE

- Advice on safe handling** • Use personal protective equipment as required
 • Avoid contact with skin, eyes or clothing
 • Ensure adequate ventilation, especially in confined areas
 • In case of insufficient ventilation, wear suitable respiratory equipment
 • Use only with adequate ventilation and in closed systems
- Storage Conditions** • Keep container tightly closed in a dry and well-ventilated place
 • Keep out of the reach of children
 • Keep containers tightly closed in a dry, cool and well-ventilated place
 • Keep in properly labeled containers
- Incompatible materials** Incompatible with strong acids and bases, Incompatible with oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** Ensure adequate ventilation, especially in confined areas.
- Individual protection measures, such as personal protective equipment**
- Respiratory protection** • A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2
requirements must be followed whenever workplace conditions warrant the use of a
respirator.
- Eye/face protection** • Tight sealing safety goggles
 • Face protection shield
- Skin and body protection** • Wear suitable protective clothing
 • Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,
as appropriate, to prevent skin contact

General Hygiene Considerations

- When using do not eat, drink or smoke
- Wash contaminated clothing before reuse
- Keep away from food, drink and animal feeding stuffs
- Contaminated work clothing should not be allowed out of the workplace
- Regular cleaning of equipment, work area and clothing is recommended
- Avoid contact with skin, eyes or clothing
- Take off all contaminated clothing and wash it before reuse
- Wear suitable gloves and eye/face protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	clear
Color	colorless or slight yellow
Odor	Odorless
Odor threshold	No information available

Property	Values	Remarks • Method
pH	<1	
Melting point/Freezing Point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit (%)	No information available	
Lower flammability limit (%):	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	1.23	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
 <u>Other Information</u>		
Softening point °C	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Density	No information available	
Bulk density	10.2582 Pounds per gallon (lb/gal)	

10. STABILITY AND REACTIVITY

- | | |
|---|--|
| Stability | • Stable under recommended storage conditions |
| Conditions to avoid | • Exposure to air or moisture over prolonged periods |
| Incompatible materials | • Incompatible with strong acids and bases
• Incompatible with oxidizing agents |
| Hazardous Decomposition Products | • Thermal decomposition can lead to release of irritating and toxic gases and vapors |
| Possibility of Hazardous Reactions | • None under normal processing and storage |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Routes of Exposure	Inhalation Skin Contact Eye contact
Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Ingestion	No data available.
Skin Contact	No data available.
Eye contact	Contact with eyes may cause irritation.

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic toxicity	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 50.5% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Citric acid 77-92-9	-	1516: 96 h Lepomis macrochirus mg/L LC50 static	-

Persistence and degradability No information available.

Bioaccumulation No information available.

Chemical Name	Partition coefficient
Citric acid 77-92-9	-1.72

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes	<ul style="list-style-type: none"> • Dispose of in accordance with federal, state and local regulations • Dispose of hazardous waste in a RCRA licensed facility
Contaminated packaging	• Do not reuse container
US EPA Waste Number	D002

14. TRANSPORT INFORMATION

DOT

Proper shipping name Corrosive liquid, acidic, organic, n.o.s.*
Hazard Class 8
UN/ID No. UN3265
Packing Group III
Technical Name Description CITRIC ACID
Description UN3265, Corrosive liquid, acidic, organic, n.o.s.*, (CITRIC ACID) 8, III
Special Provisions IB3, T7, TP1, TP28
Emergency Response Guide Number 153

IATA

UN/ID No. UN3265
Proper shipping name Corrosive liquid, acidic, organic, n.o.s.*
Hazard Class 8
Packing Group III
ERG Code 8L
Special Provisions A3

IMDG

UN/ID No. UN3265
Proper shipping name Corrosive liquid, acidic, organic, n.o.s.*
Hazard Class 8
Packing Group III
EmS-No. F-A, S-B
Special Provisions 223, 274

15. REGULATORY INFORMATION

US Federal Regulations

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Inventories

TSCA Complies
DSL/NDL Complies
EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies

KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection B

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Version	1
Revision Note	*** Updated value on SDS.

Disclaimer

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End of Safety Data Sheet