

May 19 2017



Shannon Chemical Corp.
P.O. Box 376 Malvern, PA 19355 • Phone: (610) 363-9090 • Fax: (610) 524-6050

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Product Identifier

Product Name: **SE-CA-50**
Trade Name: Citric Acid 50% Solution
Synonyms : 2-Hydroxy-1,2,3-Propanetricarboxylic Acid
CAS Number 77-92-9
SDS Number/Grade 0044

1.2 Use of Substance/Mixture

Recommended use: Membrane Cleaner, Well Cleaning Aid

1.3 Company Identification

Name Shannon Chemical Corporation
Address P.O. Box 376
Malvern, PA 19355

1.4 Contact Information

Information #: (610) 363-9090
Chem Tel #: (800) 255-3924
Emergency #: (800) 860-9090

SECTION 2: HAZARDS IDENTIFICATION

2.1 Emergency Overview

- **SE-CA-50** is an odorless, clear to light yellow solution.
- The primary routes of exposure for **SE-CA-50** are through inhalation, and skin or eye contact.

HMIS Rating: Health- 2 Fire- 1 Reactivity- 0

0-Minimal; 1-Slight Hazard; 2-Moderate Hazard; 3-Serious Hazard; 4-Severe Hazard

Hazard Symbols



2.2 Potential Health Effects

- Inhalation: • May cause mucous membrane irritation with symptoms of sore throat, coughing and/or shortness of breath.
- Contact with Eyes: • **SE-CA-50** is damaging to eye tissue on contact. It may cause burns that result in damage to the eye.
- Contact with Skin: • May cause irritation with redness, swelling and pain.
- Ingestion • **SE-CA-50** if swallowed, may cause burns to mucous membranes of the mouth, throat, esophagus, and stomach.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Citric Acid Component

The following component(s) in this product are considered hazardous under applicable OSHA (USA), WHMIS (Canada), and/or NOM-002-SCT-2003 (Mexico) regulations

Chemical Name	CAS-No	Weight %
Citric Acid	77-92-9	50 ± 1
Non-hazardous Components		
Water	7732-18-5	50 ± 1

SECTION 4: FIRST AID MEASURES

- 4.1 Eye Exposure** • Flush eyes immediately with water while holding eyelids apart and open for 15 minutes. Seek prompt medical attention.
- 4.2 Skin Exposure** • Wash contaminated area with soap and water. Seek medical attention if a rash appears or irritation is severe. Thoroughly wash all contaminated clothing
- 4.3 Inhalation** • Use caution and do not breathe mist or vapors. If exposed move to open fresh air. If breathing is difficult or stopped, administer oxygen, resuscitate, and call 911.
- 4.4 Ingestion** • Seek prompt medical attention. If an individual swallows product give copious amounts of water. NEVER give anything by mouth to an unconscious person.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

- Suitable Extinguishing Media • Use extinguishing measures appropriate to local circumstances.

Unsuitable Extinguishing Media • N/A

5.2 Special Hazards

Unusual Fire and Explosion Hazards • None

Special Fire Fighting Procedures • Apply excess water to any fire. Wear self-contained breathing apparatus.

Flash Point • No Data

NFPA Rating: Health- 2 Fire- 1 Reactivity- 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment & Emergency Procedures

Personal Precaution • Avoid contact with skin or eyes. Ensure adequate ventilation. Use personal protective equipment.

Environmental Precaution • If a spill or leak occurs, do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Dike or dam spill area and neutralize.

6.2 Methods and Material for Containment and Cleaning Up

Containment/Clean-up • Immediately try to contain or dike effected area. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. After cleaning, flush away traces with water.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling • Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage • Keep in properly labelled containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from metals. Keep away from oxidizing agents. Keep away from strong bases. Keep away from amines.

Ventilation	<ul style="list-style-type: none"> • Allow sufficient ventilation (natural or mechanical) to maintain exposure below TLV/TWA.
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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Personal Protections

Respiratory Protection	<ul style="list-style-type: none"> • If the potential to exposure of mists or vapor exists always use an approved N105H-MSHA mist respirator.
Hand Protection	<ul style="list-style-type: none"> • Wear protective rubber or plastic gloves.
Eye Protection	<ul style="list-style-type: none"> • Wear protective eye protection. i.e. face shield, goggles, safety glasses.
Other Protection	<ul style="list-style-type: none"> • Wear chemical protective apron if the potential for splashing exists. Remove clothing immediately if contaminated. Spontaneous ignition of clothing may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Appearance	<ul style="list-style-type: none"> • Clear to light yellow solution
Odor	<ul style="list-style-type: none"> • Light, sweet, citric odor

9.2 Important Health Safety and Environmental Information

Density	<ul style="list-style-type: none"> • 10.2-10.5
Specific Gravity	<ul style="list-style-type: none"> • 1.22 - 1.26 (H₂O=1)
Solubility	<ul style="list-style-type: none"> • Completely miscible
Boiling Point	<ul style="list-style-type: none"> • 100-104°C
Freezing Point	<ul style="list-style-type: none"> • -15 to -10°C
pH	<ul style="list-style-type: none"> • 2.2 ± 0.5
Vapor Pressure	<ul style="list-style-type: none"> • No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical Stability

- **SE-CA-50** is stable under normal ambient conditions of temperature and pressure.

10.2 Conditions to Avoid

- Incompatible products.

10.3 Incompatible Materials

- Amines. Heavy metals. Strong oxidizing agents. Strong bases.

10.4 Hazardous Decomposition Products

- No hazardous decomposition products

10.5 Hazardous Polymerization

- Gives off hydrogen by reaction with metals.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Acute Toxicity**

Skin Contact	• Based on available data, not, or only slightly irritating.
Eye Contact	• Irritant, may cause serious eye irritation
Method Species Results	• OECD Guideline 405 (Eye irritation) • Rabbit (New Zealand White) • Test data is not provided for 50% solution, but results for 30% solution indicate significant irritation score.

11.2 Carcinogenicity

SE-CA-50 has not been classified as a carcinogen by ACGIH, NIOSH, OSHA, NTP, or IARC.

SECTION 12: ECOLOGICAL INFORMATION

No aquatic toxicity is available for citric acid. Contains no substances known to be hazardous to the environment. Contains no substances known to be degradable in waste water treatment plants.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste Disposal Methods**

Hazardous as supplied. The classification and disposal method of waste material resulting from this product should be determined by the user at the time of disposal. Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Taking into account local regulations the product may be disposed of as waste water after neutralization. Solutions with low pH-value should be neutralized before discharge.

13.2 Contaminated Package

Triple rinse containers. Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name	• Corrosive liquid, acidic, organic, n.o.s. (Citric acid)
DOT Hazard Class	• 8
U.N. Identification	• 3265
Packaging Group	• III

SECTION 15: REGULATORY INFORMATION

OSHA Status	• This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard CFR 1910.1200.
TSCA Status:	• Listed in the TSCA inventory
SARA Extremely Hazardous Substances:	• This product does not contain any chemicals subject to reporting requirements.
SARA Hazard Categories	• Acute Y
	• Chronic N
	• Fire N
	• Pressure N

SECTION 16: OTHER INFORMATION

Preparation Date: 01/01/2014

Last Revision Date: 06/01/2015