# Safety Data Sheet



Issuing Date 03-Jun-2010

Revision Date 10-May-2011

**Revision Number** 2

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name	Citric Acid, Monohydrate
Product Code(s)	0908
Recommended Use	For Further Manufacturing Use Only Not for Human or Animal Drug Use
Synonyms <u>Company</u> AMRESCO, LLC 6681 Cochran Road Solon, Ohio 44139	CITRIC ACID HYDRATE * 1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-,MONOHYDRATE *
Emergency Telephone Number	Chemtrec 1-800-424-9300
Company Phone Number E-mail Address	1-800-448-4442 info@amresco-inc.com

## 2. HAZARDS IDENTIFICATION

## **GHS** - Classification

Classification

Skin Irritant 2 Eye Irritant 2 Respiratory Sensitizer 1 Skin Sensitizer 1

Signal Word



**Hazard Statements** 

Danger



H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

### Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Citric Acid, Monohydrate	-	Not available	5949-29-1	95-100	-

4. FIRST AID MEASURES				
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician			
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes			
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen			
Ingestion	Clean mouth with water and afterwards drink plenty of water			
Notes to Physician	Treat symptomatically			

## 5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam
Hazardous Combustion Products	Carbon oxides
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive Not sensitive
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation
Methods for Containment	Prevent further leakage or spillage if safe to do so

# Methods for Cleaning UpAvoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area<br/>and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place

Incompatible Products Oxidizing agents. Bases. Reducing agents. Nitrites.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid, Monohydrate			
5949-29-1			

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment Eye/Face Protection Skin and Body Protection Respiratory Protection	Tightly fitting safety goggles Wear protective gloves/clothing If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor Threshold Decomposition Temperature °C Freezing Point Initial Boiling Point Physical State pH Flash Point Autoignition Temperature Boiling Point/Range Melting Point/Range Flammability Limits in Air Explosive Properties Oxidizing Properties Evaporation Rate MMHG @ 37.8 C Vapor Density Specific Gravity Solubility Partition Coefficient (n-octanol/water)	White No information available No information available No information available No information available No information available Granular or powder 2.2 Not determined No data available 175 °C 100 °C <b>Upper</b> No data available No information available No data available	Lower No data available
Melting Point/Range Flammability Limits in Air Explosive Properties Oxidizing Properties Evaporation Rate MMHG @ 37.8 C Vapor Density Specific Gravity Solubility Partition Coefficient	<b>Upper</b> No data available No information available No information available No data available No data available No data available 1.542 Freely soluble. No data available	Lower No data available

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions		
Incompatible Products	Oxidizing agents. Bases. Reducing agents. Nitrites.		
Conditions to Avoid	None known based on information supplied		
Hazardous Decomposition Produ	ucts Carbon oxides		
Hazardous Polymerization	Hazardous polymerization does not occur		
11. TOXICOLOGICAL	INFORMATION		
Acute Toxicity			
Product Information	Irritating to eye, skin and respiratory system. Sensitizer.		
Chronic Toxicity			
Chronic Toxicity	No known effect based on information supplied		

Target Organ EffectsNone known.

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations

## 14. TRANSPORT INFORMATION

 IATA
 Not regulated

 DOT
 Not regulated

## **15. REGULATORY INFORMATION**

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Citric Acid, Monohydrate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

	Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
C	Citric Acid, Monohydrate 5949-29-1 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### International Inventories

TSCA

Does not Comply

EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

#### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **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)

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

### CERCLA

#### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### International Regulations

Mexico - Grade

No information available.

Canada

WHMIS Hazard Class D2B Toxic materials D2A Very toxic materials



## 16. OTHER INFORMATION

Issuing Date 03-Jun-2010

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### **Revision Note**

No information available.

**Recommended Restrictions** No information available

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

### End of MSDS