Product Description

CITRIC ACID, MONOHYDRATE

Supplier:C2A Sales & Supplies (Barbados) Ltd.#3 Canewood Road, Jackson, St. Michael,1-246-426-1256	Barbados BB11005
Synonyms: Citric Acid, Hydrate	
Product Name: CITRIC ACID, MONOHYDRATE Recommended Use: Science education applications	

Section 2

Section 1

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



WARNING

Causes serious eye irritation.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity - Oral Category 5

Section 3	Composition / Information on Ingredients						
Chemical Name	CAS # %						
Citric Acid, Monohydrate	5949-29-1 100						
Section 4	First Aid Measures						
Emergency and First A	id Procedures						
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.						
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.						
Skin Contact:	After contact with skin, wash immediately with plenty of water.						
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.						
Section 5	Firefighting Procedures						
Extinguishing Media:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.						
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.							
Fire and/or Explosion Hazards: Reacts with some acids and bases to form hydrogen gas. Hazardous Combustion Products: Carbon dioxide, Carbon monoxide							
Steps to Take in Case M Released or Spilled:	aterial IsExposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area.						

Section 6

Reactivity: Chemical Stability: Conditions to Avoid:

Spill or Leak Procedures

No data available Stable under normal conditions. None known.

Incompatible Materials: Hazardous Polymerization: Caustics (bases), Strong oxidizing agents, Strong reducing agents, Nitrates, Keep Will not occur unnecessary personnel

away. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container Do not flush spill to drain.

Section 7

Handling and Storage

Handling:

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. After contact with skin, wash immediately with plenty of water. Harmful if swallowed. Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

Green - general chemical storage

Protection Information Section 8 ACGIH **OSHA PEL Chemical Name** (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A **Control Parameters Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. **Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower. **Respiratory Protection:** No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible. **Respirator Type(s):** NIOSH approved air purifying respirator with dust/mist filter. Eve Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available. Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Gloves: Nitrile

Section 9

Formula: C6H8O7 * H2O Molecular Weight: 210.14 Appearance: Crystalline Solid Odor: No data available Odor Threshold: No data available pH: 1.8 at 50 g/l at 20 °C Melting Point: No data available Boiling Point: No data available Flash Point: No data available 174 C Flammable Limits in Air: N/A

Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 7.26 - (Air = 1.0) Specific Gravity: 1.54 Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0%

Section 10

Reactivity Data

Section 11		Toxici	ty Data				
Routes of Entry Symptoms (Acute):	Inhalation and inge N/A	stion.					
Delayed Effects:	Vomiting Gastrointestinal, Dermititis						
Acute Toxicity: Chemical Name Citric Acid, Monohydrat	e	CAS Number 5949-29-1	Oral LD50 Oral LD50 Rat 3000 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined		
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA		
No data available		5949-29-1	Not listed	Not listed	Not listed		
Chronic Effects: Mutagenicity: Teratogenicity:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect).						
Sensitization:	No evidence of a sensitization effect.						
Reproductive:	No evidence of negative reproductive effects.						
Target Organ Effects: Acute: Chronic:	See Section 2 Not listed as a c	arcinogen by IARC, I	NTP or OSHA.				
Section 12		E	cological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	al is not expected to	be harmful to the ecolog	y. Keep out of waten	ways.		
Chemical Name N/A		CAS Number 5949-29-1	Eco Toxicity				
Section 13		Disp	osal Informatio	on			
Disposal Methods:			with all applicable Federa te disposer (TSD) to ass		egulations. Always		
Waste Disposal Code	(s): Not	t Determined					
Section 14		Tran	sport Informati	on			
Ground - DOT Proper N/A	Shipping Name:		Air - IATA Proper Sh Not regulated for air t				

Section 15

TSCA Status:

Regulatory Information

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Na	ame	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data avai	lable	5949-29-1	No	Νο	No	No	No
California Prop 65: No California Proposition 65 ingredients							
Section	16					Additio	onal
		Information					
Revised: 08/	21/2018	Replac	ces: 06/15/2018		Printed: 08	3-25-2018	
The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.							
Glossary							
ACGIH	American Confere	nce of Governme		NTP	National Toxicol	0, 0	
CA8	Industrial Hygienis			OSHA	Occupational Sa	•	Administration
CAS	Chemical Abstract	Service Number	r	PEL	Permissible Exp	osure Limit	

CAS Chemical Abstract Service Number PEL Permissible Exposure Limit	
CERCLA Comprehensive Environmental Response, ppm Parts per million	
Compensation, and Liability Act RCRA Resource Conservation and Rec	overy Act
DOT U.S. Department of Transportation SARA Superfund Amendments and Rea	authorization Act
IARC International Agency for Research on Cancer TLV Threshold Limit Value	
N/A Not Available TSCA Toxic Substances Control Act	
IDLH Immediately dangerous to life an	d health