


# Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	<b>Citric Acid</b>	<b>Version: 6</b> <b>Effective Date: 25 January 2021</b>
<b>Other Means Of Identification</b>	None	
<b>Initial Supplier Identifier</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
<b>Recommended Use and Restrictions On Use</b>	Descaler, food additive	
<b>Product Family</b>	Organic acids	
<b>Emergency Phone</b>	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification	
<b>Hazard Classification</b>	
	
<b>Health Hazards</b>	Eye Damage/Irritation – Category 2A
<b>Signal Word</b>	Warning
<b>Hazard Statement</b>	Causes serious eye irritation.
<b>Precautionary Prevention Statement</b>	Wash hands thoroughly after handling. Wear eye and face protection.
<b>Precautionary Response Statement</b>	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, seek medical attention.
<b>Precautionary Storage Statement</b>	No statement
<b>Precautionary Disposal Statement</b>	Dispose of contents/container in accordance with local regulations.
<b>Other Hazards</b>	None.



Manufacturer of Specialty Chemicals

## Safety Data Sheet

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS# NO. and Other Unique Identifiers	% by weight
Citric acid	None	77-92-9	100

Section 4. First-Aid Measures	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Flush area with water. If irritation persists, seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	Irritation, nausea, headache, and shortness of breath
<b>Immediate Medical Attention and Special Treatment</b>	Treat symptomatically. Treatment should be based on sound judgment of the physician and reactions of the patient. Observe for pulmonary oedema.

Section 5. Fire-Fighting Measures	
<b>Suitable and Unsuitable Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Hazardous Combustion Products</b>	Carbon monoxide, and carbon dioxide.
<b>Specific Hazards Arising From the Product</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Chemical resistant gloves (neoprene) and coveralls (rubber). Isolate area. Scoop or vacuum material and arrange disposal without creating dust.

## Safety Data Sheet

<b>Environmental Precautions</b>	Do not allow to enter the storm water systems or surface drains. Dike and contain.
<b>Methods and Materials For Containment and Clean-Up</b>	Restrict access to the area. Scoop up or vacuum up material and place in an appropriate container for reuse or disposal. Wash area down with water. Do not sweep material as this will generate dust.

Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Handle with care. Avoid inhaling dust. Avoid air conveying of powdered product due to potential for static buildup. Avoid contact with skin and eyes. Wash thoroughly after handling.
<b>Conditions For Safe Storage</b>	Store in a cool dry place. Keep containers closed when not in use. Avoid incompatible materials.

Section 8. Exposure Controls / Personal Protection				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Citric acid	Not established			
* Immediately Dangerous to Life and Health				
<b>Exposure Controls</b>	Local exhaust ventilation			
<b>Appropriate Engineering Controls</b>	Ensure safety shower and eye wash station are available.			
<b>Individual Protective Measures</b>				
<b>Eye / Face Protection</b>	Safety glasses			
<b>Skin Protection</b>	Chemical resistant coveralls and gloves			
<b>Respiratory Protection</b>	Dust mask or respirator if dust is being generated.			

Section 9. Physical and Chemical Properties	
<b>Appearance</b>	White powder or fine granules
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available.
<b>pH</b>	2.2 ( 1 % solution), 1.7 (10% solution)
<b>Flash Point</b>	Not applicable
<b>Boiling Point and Boiling Range</b>	175 °C
<b>Melting Point and Freezing Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Flammable



Manufacturer of Specialty Chemicals

## Safety Data Sheet

<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Relative Density</b>	1.665
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	Not applicable

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Stable
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur
<b>Conditions to Avoid</b>	Avoid generating dust.
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong alkalis.
<b>Hazardous Decomposition Products</b>	Not expected to decompose under normal conditions of use and storage.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric Acid	11.7g/kg (Rat)	>2.0 g/kg (Rat)	
<b>Likely Routes of Exposure</b>			
<b>Skin:</b>	Mild irritant. May cause localized irritation. Long term exposure may cause dermatitis.		
<b>Eyes:</b>	May cause redness, pain and conjunctivitis, ulceration, and permanent cloudiness.		
<b>Inhalation:</b>	Dust may cause irritation of the mucous membranes, coughing, and shortness of breath.		
<b>Ingestion:</b>	May cause gastrointestinal disturbances, nausea, and vomiting if large quantities are ingested.		
<b>Acute Toxicity Estimates (ATE)</b>	Product is not toxic by any route of exposure		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Not classified		



Manufacturer of Specialty Chemicals

## Safety Data Sheet

<b>Aspiration Toxicity</b>	Not classified
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Not classified
<b>Skin Corrosion / Irritation</b>	Not hazardous
<b>Serious Eye Damage / Irritation</b>	Irritating
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Carcinogenicity</b>	Not listed.
<b>Reproductive Toxicity</b>	
- <b>Sexual Function and Fertility</b>	Not classified
- <b>Development of Offspring</b>	Not classified
- <b>Effects on or via Lactation</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Interactive Effects</b>	Not classified
<b>Other Information</b>	None known

### Section 12. Ecological Information

<b>Ecotoxicity</b>	LC50 / 96 hrs/ goldfish: 440-706 mg/l BOD: 528 O <sub>2</sub> /g (5 days), COD: 728 mg O <sub>2</sub> /g
<b>Persistence and Degradability</b>	Will not persist
<b>Bioaccumulative Potential</b>	Will not bioaccumulate
<b>Biodegradability</b>	Readily biodegradable
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	None known

### Section 13. Disposal Considerations

<b>Disposal Considerations</b>	Dispose of contents/container in accordance with local regulations.
--------------------------------	---

# Safety Data Sheet

<b>Section 14. Transport Information</b>	
<b>UN Number</b>	Not applicable
<b>UN Proper Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packaging Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	Not applicable

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-1/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-1/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	22 September, 2011
<b>Date of Latest Revision:</b>	25 January 2021
<b>Disclaimer</b>	
<p>Notice to reader</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> <p>Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.</p>	