


**Citric acid anhydrous**
**SECTION 1 - IDENTIFICATION**

<b>Product identifier:</b>	<b>Citric acid anhydrous</b>
<b>Recommended use:</b>	
<b>Chemical name:</b>	
<b>Chemical group:</b>	
<b>Supplier identifier:</b>	<b>TOTAL FABRICATION</b> 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0 (418) 970-0889
<b>Manufacturer identifier:</b>	<b>TOTAL FABRICATION</b> 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0 (418) 970-0889
<b>Emergency phone:</b>	418-970-0889, Lundi au Vendredi 9h00 à 17h00

**SECTION 2 - HAZARD IDENTIFICATION**

<b>Classification</b>	Skin irritation - Category 2 Eye irritation - Category 2A	
<b>Signal Word</b>	WARNING	
<b>Hazard statement</b>	H315 Causes skin irritation. H319 Causes serious eye irritation.	
<b>Precautionary statement - Prevention</b>	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
<b>Precautionary statement - Response</b>	P103 Read label before use. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.	
<b>Precautionary statement - Elimination</b>	P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container according to municipal, provincial and federal regulation.	

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENT**

<b>Hazardous Product</b>	<b>No. CAS</b>	<b>% (weight)</b>
Citric acid	77-92-9	99,5-100,5

**SECTION 4 - FIRST AID MESURE**

<b>Inhalation:</b>	IF INHALATED : Remove victim to fresh air and keep comfortable for breathing.
<b>Skin contact:</b>	IF ON THE SKIN: If skin irritation or rash occurs : Get medical advice/attention. Take off contaminated clothing/jewellery and wash it before reuse. Apply moisturizing cream in case of dry skin.
<b>Eye contact:</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: Get medical advice/attention.
<b>Ingestion:</b>	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsion. Rinse mouth with water throughly. DO NOT INDUCE VOMITING. Ask victim to drink two (2) glass of water. If vomiting occurs naturally, lean victim forward to reduce risk of aspiration. Continue to drink water. Obtain medical care.

**SECTION 5 - FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media:</b>	In case of fire: Use water, foam, CO2, dry chemical to extinguish.
<b>Unsuitable extinguishing media:</b>	Heavy stream of water.
<b>Hazardous combustion products:</b>	Carbon oxides.
<b>Protective equipment:</b>	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.

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**Precaution:** Retain water run-off.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Protective equipment:**

Wear plastic or rubber gloves if large quantities of bulk are handled (see Section 8)

**Containment and clean up:**

Ventilated spill area. Stop spill if safe to do so. Contain and absorb with inert absorbing material for future disposal (see section 13). Prevent spill from entering sewers or waterways. Retain water run-off. Inform proper authorities if necessary.

**Environnement precaution:**

Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal provincial and federal regulation.

### SECTION 7 - HANDELING AND STORAGE

**Precaution for safe handling:**

Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.

**Condition for safe storage:**

Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.

**Incompatible materials:**

Strong bases, oxidants. The product does not polymerize.

**Incompatible condition:**

Sources of ignition. Direct sunlight.

### SECTION 8 - EXPOSURE CONTROLS / PERSONNAL PROTECTION

**Exposure limits:**

Ingredients	OSHA PEL		TWA	STEL
	TWA	STEL		
Citric acid	Not available	Not available	Not available	Not available

**Engineering controls:**

Local ventilation system is recommended.

**Protection of airways:**

Not required if ventilation is adequate.

**Protective equipment and clothing:**

Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.

**General hygiene recommendations :**

Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid, crystalline
<b>Odour :</b>	Odourless
<b>Odour threshold:</b>	Not available
<b>pH (value) :</b>	1,7 (100g/L)
<b>Melting point:</b>	Approx 153 C at 1,013 hPa
<b>Initial boiling point:</b>	Decompose before boiling
<b>Flash point:</b>	Not applicable
<b>Evaporation rate (butyl acetate = 1):</b>	Not applicable
<b>Flammability:</b>	Non flammable
<b>LIL:</b>	Not applicable
<b>UIL:</b>	Not applicable
<b>Vapour pressure:</b>	Not available
<b>Vapour density (air=1):</b>	Not available
<b>Relative density:</b>	1,665 g/cm3

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Solubility:	590 g/L at 20C
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

### SECTION 10 - STABILITY AND REACTIVITY

Stability and reactivity :	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Direct Sunlight. Extremely high or low temperature Contact with incompatible materials.
Incompatible materials :	Strong oxidants, bases.
Hazardous decomposition products :	Carbon oxides.

### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Toxicological data:</b>				
Hazardous ingredient	No. CAS	% (weight)	LD <sub>50</sub> (route, species)	LC <sub>50</sub> (species)
Citric acid	77-92-9	10 - 30	3000 mg/kg (oral, rat)	N/A
<b>Short term exposure (acute) :</b>				
Inhalation:	Not applicable.			
Skin:	May cause skin irritation and / or drying the skin.			
Eyes:	May cause serious irritation to the eyes.			
Ingestion:	Nausea, diarrhea, vomiting and abdominal cramps.			
<b>Long term exposure (chronic) :</b>				
Inhalation:	Not available			
Skin:	Not available			
Eyes:	Not available			
Ingestion:	Not available			
Carcinogenicity :	Not carcinogen by IARC			
Teratogenicity:	Not available			
Mutagenicity:	Not mutagen			
Target organ:	Not available			
Conditions aggravated by exposure :	Not available			

### SECTION 12 - ECOLOGICAL INFORMATION

Hazardous ingredient	No. CAS	% (weight)	Value	Species
Citric acid	77-92-9	10 - 30	LC <sub>50</sub> /96h : 440-706 mg/l EC <sub>50</sub> : 1534 mg/l	Goldfish Daphnia
Persistence and degradability:	Not available			
Bioaccumulation potential:	Not available			
Mobility in soil:	Not available			
Other adverse effects:	Not available			
Other information:	Avoid release to the environment.			

### SECTION 13 - DISPOSAL CONSIDERATION

Safe handling for disposal:	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
Methods of disposal:	Dispose contents/containers according to all municipal, provincial and federal regulations.

### SECTION 14 - TRANSPORT INFORMATION

UN Number	Proper shipping name	Class	Packing group	Placard
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

### SECTION 15 - REGULATION INFORMATION

Canadian Environmental Protection Act (CEPA):	Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
Others :	Components of this product are listed on the TSCA or are exempt.

### SECTION 16 - OTHER INFORMATION

**Citric acid anhydrous**

<b>Prepared by:</b>	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0
<b>Telephone :</b>	(418) 970-0889
<b>Date :</b>	09-mai-22
<b>Version:</b>	1,0
<b>Abbreviations:</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.