

CERTIFICATE OF ANALYSIS & SAFETY DATA SHEET

PRODUCT: Citric acid extra fine - anhydrous

INCI: Citric acid

COUNTRY OF ORIGIN: China

USAGE: Cosmetic use only

Physical & chemical data / Specification

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White or colorless crystal	Complies
Odor	odorless	Complies
Assay, calculated on anhydrous basis	99.5 % - 100.5 %	100 %
Identification	Pass test	Complies
Clarity of solution	Pass test	Complies
Color of solution	Pass test	Complies
Moisture	≤ 0.3 %	0.1 %
Heavy metal (as Pb)	≤ 5 ppm	< 5 ppm
Oxalate	≤ 350 ppm	< 100 ppm fwd. 9-2007
Readily carbonizable substances	Pass test	Complies
Residue on ignition (sulfated ash)	≤ 0.05 %	0.01 %
Sulfate	≤ 150 ppm	Complies
Lead, Pb	≤ 0.5 ppm	< 0.5 ppm
Iron, Fe (not in current FCC/USP)	≤ 5 ppm	< 5 ppm
Granulation	Retained on 30 mesh: 5% max Trough 100 mesh: 10 % max	0.4 % 2.9 %

COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Citric acid	77-92-9	-	99-100%

HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification: Hazards not otherwise classified – Combustible dust
Serious eye damage/eye irritation - Category 2

GHS Label elements, including precautionary statements: Signal: Warning

Hazard statement(s): H319 Cause serious eye irritation

May form combustible dust concentration in air



Precautionary statement(s):

IF ON SKIN: Wash hands and exposed skin with plenty of water after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

If skin or eye irritation occurs: Get medical advice/attention.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes: Use tightly sealed goggles.

Skin: Use protective gloves, long sleeved clothing and boots

Respiratory: Wear suitable respiratory equipment with dust filter.

FIRST AID MEASURES

Eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Skin contact: Immediately wash with water and soap and rinse thoroughly. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

Inhalation: Supply fresh air. In case of unconsciousness place the patient stably inside position for transportation. In case of respiratory tract irritation, consult a physician.

Ingestion: If accidentally swallowed rinse the mouth with plenty of water and drink a lot of water.

PHYSICAL AND CHEMICAL PROPERTIES

Solubility	Soluble in water above 590g/l at 20°C
Flash point	Not determined
pH	1.8 @ 25°C at 5wt% conc.
Dissociation constants (pKa)	3.13, 4,76 and 6.4 at 25°C
Melting/freezing Point	153.000 °C / 307.000 °F (101.3 kPa)
Flammability limits in air	Not flammable
Density	1.665 g/m ³ at 20°C
Bulk Density	500-950 kg/m ³ at 20°C
Partition Coefficient (n-octanol/water)	-0.2 to -1.8

HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapours/dust. Use only in area provided with appropriate exhaust ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Ensure adequate ventilation. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities".

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers. Keep at temperature not exceeding 23.9°C / 75°F. at 55% relative humidity. Keep away from metals. Corrosive to metals (as aqueous solution). Keep away from oxidizing agents. Keep away from strong bases. Keep away from amines.

FIRE FIGHTING MEASURES

Suitable extinguishing media: Extinguishing powder, carbon dioxide, water spray foam.

Unsuitable extinguishing media: Not available

Special protective equipment and precautions for fire-fighters: Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products:

In case of fire, the following can be released: Carbon monoxide and Carbon dioxide

Fine dust dispersed in air may ignite. Dust explosivity class = 1. Weak to moderately explosible

Resulting gases: Carbon oxide



NFPA : Health = 1 ; flammability = 1 ; Stability and reactivity = 0 ; Physical hazard = None known

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Mount respiratory protective device. Wear protective equipment. Avoid formation of dust. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with the skin and the eyes.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up: Pick up and transfer to properly labelled containers. Avoid dust formation. Keep in suitable, closed containers for disposal. Aqueous spillage should be neutralized and treated prior to discharge.

STABILITY AND REACTIVITY

Reactivity: Reaction with metal nitrates may be potentially explosive. Aqueous form is corrosive to copper, zinc, aluminum and their alloys.

Chemical stability: Not applicable, stable under normal conditions.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Excessive heat. High energy sources of ignition.

Incompatible materials: Amines, Heavy metals, strong oxidizing agents and strong bases.

Hazardous decomposition products: Thermal decomposition can lead to release of irritation gases and vapors Carbon monoxide (CO), Carbon dioxide (CO₂)

TOXICOLOGICAL INFORMATION *based on available data

Acute toxicity: Oral: LD50 = 5400 mg/kg (mouse)
Dermal: LD50 = >2000 mg/kg (rat)

Carcinogenicity: None of the components of this material are listed as a carcinogen.

Mutagenicity: The substance was found to be non-mutagenic

Specific target organ toxicity: No data available.

Reproductive toxicity: Based on available data, no evidence of reproductive toxicity.

Single exposure: No evidence of toxicity

Aspiration hazard: No data available.

Eyes: Irritating to eyes. Contact with eyes may cause mechanical irritation.

Skin: According to GHS hazard classification criteria, the product is not considered as being a skin irritant. Product dust may cause mild, mechanical irritation. Health injuries are not known or expected under normal use.

Inhalation: May cause irritation of respiratory tract. Based on the low pH, citric acid would be expected to cause irritation to the respiratory tract, resulting in a higher cough response as the inhalation exposure concentration was increased.

Ingestion: Oral exposure is not anticipated under normal working conditions. Health injuries are not known or expected under normal use.

Main Symptoms: Itching, Redness and Burning sensation.

ECOLOGICAL INFORMATION

Ecotoxicity: Not classified for aquatic toxicity. Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in wastewater treatment plants.

EC50 (static) = 1535 mg/L (Daphnia magna); LC50 (static) = 440 mg/L (Leuciscus idus); NOEC (8d) = 425 mg/L

Persistence and degradability: Readily biodegradable. Inherently biodegradable. 97% and 100% biodegradability in 28d and 19d, respectively (protocols OECD 301E and OECD 301A, respectively)

Bio - accumulative potential: Bio-accumulative is unlikely

Mobility in soil: Soluble in water

TRANSPORT INFORMATION

Not regulated

CANADIAN CLASSIFICATION

WHMIS product classification: CLASS E – corrosive material

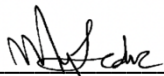
WHMIS Ingredient disclosure list IDL

Product Name	Weight %	WHMIS IDL	WHMIS threshold limits
Citric acid	99-100%	listed	1%

(NPRI) Canadian National Pollutant Release Inventory: No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Émis par _____



Online Boutique Director's

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