

SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : April 21, 2022

Print Date : April 28, 2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Citric Acid
Synonyms	:	Beta-hydroxy-tricarboxylic acid, 2-Hydroxy-1,2,3-propanetricarboxylic (continued)
INCI name	:	acid.
CAS #	:	Not available.
Country of Origin	:	77-92-9
EINECS #	:	Canada
Product use	:	201-069-1
Supplier	:	Domestic and Industrial
Address	:	New Directions Aromatics Inc.
Fax	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Telephone number	:	905-362-1926
Emergency phone number	:	905-362-1915
	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Eye Irritation-Category 2

GHS Label elements, including precautionary statements

Signal: Warning

Hazard statement(s)

H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313 If eye irritation persists get medical advice/attention.

P501 Dispose of contents/container according to local regulations.

Other Info

Hazards Not Otherwise Classified - May form combustible dust concentrations in air (during processing).

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
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4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Small fires: DRY chemical powder.

Large fires: Water spray, fog, foam

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

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

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

Clean up any spills as soon as possible. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities

Do not store at temperatures above 30 °C / 86 °F. Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes

Use tightly sealed goggles.

Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Ingestion

Not for ingestion.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Solid crystalline powder
Odor	:	Odorless.
Melting Point/Freezing Point	:	153 °C.
Relative density	:	1.665 @ 20 °C
Solubility (ies)	:	Soluble in water.
Auto-ignition temperature	:	345 °C.

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity (LD50): 3000 mg/kg [Rat].

Acute dermal toxicity : LD50: > 2,000 mg/kg [Rat].

Acute toxicity (other routes of administration): LD50 : 725 mg/kg [Rat] Application Route: i.p.

LD50 Mouse: 940 mg/kg [Rat] Application Route: i.p.

Carcinogenicity

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

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by ACGIH.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a known or

anticipated carcinogen by OSHA.

Mutagenicity

Non - mutagenic

Reproductive toxicity

No adverse effects on reproduction are known.

Respiratory or skin sensitization

Does not cause respiratory or skin sensitization.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Possible irritation should be prevented by wearing safety glasses.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna (Water flea)): 1,535 mg/l

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l

Toxicity to bacteria : TT (Pseudomonas putida): > 10,000 mg/l

Persistence and degradability

Biochemical Oxygen Demand (BOD): 526 mg/g

Chemical Oxygen Demand (COD): 728 mg/g

Readily Biodegradable.

Bio - accumulative potential

The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Mobility in soil

Not available.

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION

US DOT Shipping Description (Land)

Not regulated

IMO-IMDG Shipping Description (Sea)

Not regulated

IATA Shipping Description (Air)

Not regulated

15. REGULATORY INFORMATION

TSCA

On TSCA Inventory.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Revision date : April 21,2022

Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that Jurisdiction is limited to the province of Ontario, Canada.