

CITRA ACID

SECTION 1. IDENTIFICATION

Product Identifier	CITRA ACID
Other Means of Identification	Code: ECT-855
Recommended Use	Cleaning product.
Restrictions on Use	For food plant and industrial use only.
Manufacturer/Supplier Identifier	Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
Emergency Phone No.	CANUTEC, (613) 996-6666, 24/7
Date of Preparation	September 13, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 3; Eye irritation - Category 2

Label Elements



Signal Word:
Warning

Hazard Statement(s):

H316	Causes mild skin irritation.
H319	Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P264	Wash hands and skin thoroughly after handling.
P280	Wear eye protection/face protection.
P260	Do not breathe dusts or mists.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention.	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.
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.

Storage:

Store locked up in a cool, well-ventilated place away from possible contaminants.
Keep container closed when not in use.

Disposal:

P501	Dispose of contents and container in accordance with local, regional, national and international regulations.
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Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Citric acid	77-92-9	15-40		

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Rinse skin with water. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Do not induce vomiting. Get medical attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: inhalation of vapours or mists may be irritating to the respiratory system.
If on skin: no adverse effects expected by prolonged contact. Skin may become rough and dry.
If swallowed: if large amounts are swallowed may cause gastrointestinal irritation, nausea, diarrhea.
If in eyes: this product may cause irritation or injury to the eye.

Immediate Medical Attention and Special Treatment

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.
In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location.
Wear protection suitable for surrounding fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet.
Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use appropriate certified respirators when facing concentrations above exposure limit.
Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Dike spilled product to prevent runoff. Dilute with weak base solution. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not swallow. Do not get in eyes. Wear personal protective equipment to avoid direct contact with this chemical. Avoid repeated or prolonged skin contact. Wash hands thoroughly after handling this material.
Do not breathe in this product. Only use where there is adequate ventilation. Avoid generating vapours or mists. Prevent uncontrolled release of product. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Store in an area that is: cool, dry, temperature-controlled, well-ventilated, separate from incompatible materials (see

Section 10: Stability and Reactivity). Store in a closed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Use approved respiratory protection if product is misted.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Pale yellow - colourless liquid.
Odour	No particular odour
pH	1.0 - 2.0
Melting Point/Freezing Point	Not available (melting); -5 °C (23 °F) (freezing)
Initial Boiling Point/Range	> 100 °C (212 °F)
Vapour Pressure	18.0 mm Hg (2.4 kPa)
Vapour Density (air = 1)	1.2
Relative Density (water = 1)	1.1145
Solubility	Soluble in all proportions in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Incompatible materials.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong bases (e.g. sodium hydroxide), strong acids (e.g. hydrochloric acid).

Hazardous Decomposition Products

Flammable hydrogen gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Citric acid	Not available	3000 mg/kg (rat)	Not available

Skin Corrosion/Irritation

No adverse effects expected by prolonged contact. Skin may become rough and dry.

Serious Eye Damage/Irritation

May cause irritation or injury to the eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Inhalation of vapours or mists may be irritating to the respiratory system.

Ingestion

If large amounts are swallowed may cause gastrointestinal irritation, nausea, diarrhea.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Citric acid	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

IARC = International Agency for Research on Cancer. ACGIH® = American Conference of Governmental Industrial Hygienists. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.
No information was located for: Aspiration Hazard, STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product should not be allowed to enter drains, water courses or the soil. This product and its container should be disposed of in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1760	Corrosive liquids (Citric acid)	8	III
US DOT	1760	Corrosive liquids (Citric acid)	8	III

Special Precautions Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class E

E - Corrosive

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Technical Service Department, Epsilon Chemicals
Phone No.	(780) 438-3040
Date of Preparation	September 13, 2017
Date of Last Revision	September 13, 2017
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

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HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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