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SAFETY DATA SHEET

CITRIC ACID ANHYDROUS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

INTERSAC Last Revision Date : 2019/08/19
International Suppliers and Contractors Inc.
19400 Cruickshank Ave, Baie d'Urfé.
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EMERGENCY TELEPHONE NUMBER

For emergency assistance involving chemical call

CANUTEC: (613)-996-6666

PRODUCT IDENTIFICATION

Product Name : CITRIC ACID ANHYDROUS
Chemical Name : Citric Acid
Synonyms : Citric Acid, FCC, USP.
Chemical Family : 2-hydroxyl-1,2,3-propanetricarboxylic acid
Molecular Formula : C₆H₈O₇
Product Use : Intermediate, formulation, detergents and cleaning products, agricultural applications, personal care products, paper industry, construction products, polymers and plastics, oil industry, paints and coatings, photography products, laboratory reagents, water treatment, treatment of metal surfaces, medical devices.
CAS N° : 77-92-9

Read the entire SDS for the complete hazard evaluation of this product

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

According to SOR 2015-17

Eye Irrit.2

Hazard Pictogram: GHS07



Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash hands thoroughly after handling.

P280 Wear eye 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 IN EYES: If eye irritation persists: Get medical advice/attention.

Other hazards

Result of PBT and vPvB assessment

PBT : No PBT

vPvB: No vPvB

3. COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS N°	EINECS	ACGIH TVL
Citric Acid Anhydrous	000077-92-9	201-069-1	Not Listed

4. FIRST AID MEASURES

FIRST AID PROCEDURES

Inhalation: Move victim to fresh air, if symptoms persist consult a doctor.

Skin Contact: Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Ingestion: Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed : Serious eye damage/ irritation: Eye irrit Cat 2

Indication of immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol-resistant foam,

Special hazard arising from the substance or mixtures: Carbon dioxide (CO₂), carbon monoxide (CO)

Advice for fire-fighters

Protective equipment: Wear fully protective suit.

Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation

Environmental precaution Do not flush substance into surface water or sewage system.

Methods and material for containment and cleaning up

Send for recovery or disposal in suitable receptacles.

Retrieve the product by mechanical means.

Dispose contaminated material as waste according to item 13

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Reference to other section

Section 7 for safe handling,

Section 8 for information on personal protection equipment

See section 13 for disposal information.

7. HANDLING AND STORAGE

HANDLING

Precautions for safe Handling:

Use only in well-ventilated areas.

Provide suction extractors if dust is formed.

Do not breathe vapours/dust.

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry location in well-sealed receptacles.

Provide ventilations for receptacles

Keep in original container.

Incompatible materials Strong oxidizing substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required

PNECs

PNEC/PEC – Environment

Compartment

Aquatic PNECaqua – freshwater (mg/l)

PNEC

0.44

PNECaqua - marine water (mg/l)

0.044

PNEC_{freshwater-sediment} (mg/kg d.w.)

3.46

The PNEC marine-sediment mg/kg d.w.

34.6

Terrestrial (PNEC_{soil} mg/kg d.w.)

33.1

Sewage treatment plant PNEC STP (mg/l)

>1000

Exposure controls

Appropriate engineering controls

Minimize the risk of dust inhalation. Provide adequate ventilation.

Personal protection equipment**General protective and hygienic measures:**

Do not inhale dust/smoke/mist
 Avoid contact with eyes and skin
 Wash hands before breaks and at the end of work
 Do not eat, drink, smoke or sniff while working.

Respiratory protection	Suitable respiratory protective device recommended.
Protection of hands	Protective gloves Material of gloves: Rubber, PVC or neoprene gloves recommended
Eye protection	Tightly sealed goggles (EN 166)
Body protection	Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid, crystalline
Colour	: White
Odour	: Odourless
pH-Value	: 1.7 (100g/l)
Melting Point	: Approx 153° C at 1.013 hPa
Boiling Point Range (Deg. Celsius)	: Not determined. Decompose before boiling
Flammability	: Non flammable
Relative Density(20°C)	: 1.665
Solubility (Water)	: 590 g/L at 20°C
Solubility (other)	: Partly soluble in alcohol
Partition Coefficient (Log Pow)	: -0.2 to -1.8
Explosive properties	: Product does not present an explosion hazard
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Oxidizing properties	: Not oxidizing
Vapor Pressure (mmHg at 20 °C)	: 2.21 *10 ⁻⁶ Pa
Vapor Density (Air = 1.0)	: n.a.
Volatility (%) by Volume	: n.a.i.
Evaporation rate	: Not applicable

10. STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Reactivity	: No data available
Chemical stability	
Possibility of hazardous reaction	: Reacts with alkali (lyes)
Thermal decomposition/conditions to be avoided:	Stable at environment temperature
Hazardous Polymerization	: Will not occur
Condition to Avoid	: Keep away from heat and direct sunlight
Materials to Avoid	: Protect from moisture. Avoid strong oxidants, strong alkalis and strong acids
Decomposition or Combustion Products	: Carbon dioxide. Carbon monoxide.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects:****Acute toxicity**

Ingestion LD50 (mouse)	5400 mg/kg bw
Inhalation	No data
Skin Contact. LD50 (dermal):	>2000 mg/kg bw
Skin corrosion/irritation	Mild skin irritant
Eye Contact	Cause serious eye irritation.
Respiratory or skin sensitization –skin	Not a sensitizer
Mutagenicity	Not a mutagen
Carcinogenicity	Not a carcinogen
Reproductive toxicity	Not a reproductive toxin
STOT - single exposure	Not known
STOT - repeated exposure	Not known
Aspiration hazard	Not known

12. ECOLOGICAL INFORMATION**Toxicity**

Fish LC50 (48hr)	440 mg/l
D. Magna LC 50 (24hr)	1535 mg/l
NOEC (Algae)	425 mg/l
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	No expected to bioaccumulated.
Mobility in soil	Not applicable
Results of PBT and vPvB assessment	Not a PBT or a vPvB

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Recommendation:** Do not allow product to reach sewage system

Uncleaned packaging

Waste Disposal Methods: Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.**Safe Handling of Residues:** Empty containers retain product residue and can be hazardous.**Additional information** Not known.**14. TRANSPORTATION INFORMATION****Land transport (ADR/RID)** Not subject to transport regulations.**Sea transport (IMDG)** Not subject to transport regulations.**Air transport (ICAO/IATA)** Not subject to transport regulations.**Transport in bulk according to Annex II of** Not known**MARPOL73/78 and the IBC Code****15. REGULATORY INFORMATION****The following sections contain revisions or new statements:** Version 1.**LEGEND**

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration

References:

Chemical Safety Report for citric acid and citrates
 Regulation (EC) No. 1272/2008 & 453/2010 (CLP)
 Directive 67/548/EEC & Directive 1999/45/EC

Risk Phrases and Safety Phrases

R36: Irritating to eyes

S26: Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Training advice:

Ensure staff and workers receive adequate training with regular updates in the handling of chemicals

16. OTHER INFORMATION**ADDITIONAL INFORMATION AND SOURCES USED****Prepared By:** INTERSAC

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n.a.: not applicable n.a.i.: not available information