

Section 1: Identification

Common Name/Trade Name	SODIUM CITRATE ANHYDROUS USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours)
Distributor Name	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	
Product Synonym(s)	Trisodium 2-hydroxypropane-1,2,3-tricarboxylate, Trisodium Citrate Anhydrous	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not classified
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	Combustible Dust
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	Trisodium Citrate Anhydrous
Common Name	Sodium Citrate Anhydrous
CAS Number	68-04-2
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	No hazards which require special first aid measures.
If Inhaled	If breathed in, move person into fresh air
In Case of Skin Contact	Immediately flush skin with large amounts of water
In Case of Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If easy to do, remove contact lens, if worn.
If Swallowed	Clean mouth with water and drink afterwards plenty of water.
Most Important Symptoms and Effects	No information available. None known. Notes to physician: Treat symptomatically.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable extinguishing media: Water spray Dry powder Carbon dioxide (CO ₂) Foam Unsuitable extinguishing media: High volume water jet
Special Hazards Arising From the Substance/Mixture	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Hazardous combustion products: Carbon dioxide (CO ₂), Carbon monoxide.
Special PPE and/or Precautions for Firefighters	In the event of fire, wear self-contained breathing apparatus. Wear fire resistant or flame retardant clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Avoid dust formation. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.
Methods and Materials Used for Containment	No special environmental precautions required.
Cleanup Procedures	Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and Storage

Precautions for Safe Handling	Advice on protection against fire and explosion: Normal measures for preventive fire protection. Advice on safe handling: Risk of dust explosion. Do not breathe dust. Avoid contact with skin and eyes. For personal protection see section 8.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place. Minimize dust generation and accumulation. Take measures to prevent the buildup of electrostatic char.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Components with workplace control parameters Contains no substances with occupational exposure limit values.
Appropriate Engineering Controls	Provide adequate ventilation. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
PPE - Eye/Face Protection	Safety glasses
PPE - Skin Protection	Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
PPE - Body Protection	Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
PPE - Respiratory Protection	In the case of dust or aerosol formation use respirator with an approved filter. Use NIOSH approved respiratory protection.

Section 9: Physical and Chemical Properties

Appearance	White crystalline product.
Upper/Lower Flammability or Explosive Limits	Upper explosion limit: No data available Lower explosion limit: 125,000 mg/m ³
Odor	Odorless
Vapor Pressure	Not applicable
Odor Threshold	Not relevant
Vapor Density	Not applicable
pH	7.5–9.0 (77 F) Concentration: 5 %
Relative Density	No data available
Melting Point/Freezing Point	> 302°F Decomposition
Solubility	Solubility(ies) Water solubility: 400–700 g/l (68–77°F)
Initial Boiling Point and Boiling Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (Solid, Gas)	does not ignite
Partition Coefficient	log Pow: -1.8 – -0.2 Calculation
Auto-Ignition Temperature	No data available
Decomposition Temperature	Decomposes before melting.
Viscosity	Not applicable.

Section 10: Stability and Reactivity

Reactivity	No decomposition if stored and applied as directed
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Avoid dust formation
Incompatible Materials	No data available
Hazardous Decomposition Products	Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Carbon dioxide (CO ₂) Carbon monoxide

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Acute oral toxicity: LD50 Oral (Mouse): 5,400 mg/kg Method: OECD Test Guideline 401 Test substance: Non neutralised product LD50 Oral (Rat): 11,700 mg/kg Method: OECD Test Guideline 401 Test substance: Non neutralised product
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	LD50 Dermal (Rat): > 2,000 mg/kg Test substance: Non neutralised product
Acute Toxicity - Eye	Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405
Skin Corrosion/Irritation	Trisodium Citrate Anhydrous: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation
Serious Eye Damage/Irritation	Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405
Respiratory or Skin Sensitization	Test Type: Maximisation Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. No human information is available.
Germ Cell Mutagenicity	Genotoxicity in vitro: Test Type: Ames test Species: Salmonella typhimurium Concentration: 0.0-10 mg/plate Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Information given is based on data obtained from similar substances. Germ cell mutagenicity - Assessment: In vitro tests did not show mutagenic effects
Carcinogenicity IARC	No data available. Carcinogenicity - Assessment: Not classifiable as a human carcinogen.
Carcinogenicity ACGIH	No data available. Carcinogenicity - Assessment: Not classifiable as a human carcinogen.
Carcinogenicity NTP	No data available. Carcinogenicity - Assessment: Not classifiable as a human carcinogen.
Carcinogenicity OSHA	No data available. Carcinogenicity - Assessment: Not classifiable as a human carcinogen.
Reproductive Toxicity	Reproductive toxicity - Assessment: No toxicity to reproduction
Specific Target Organ Toxicity - Single Exposure	No data available.
Specific Target Organ Toxicity - Repeated Exposure	Repeated dose toxicity: Species: Rat NOAEL: 8,000 mg/kg LOAEL: 16,000 mg/kg Application Route: Oral Exposure time: 10 d Dose: 2, 4, 8, 16 g/kg bw/day
Aspiration Hazard	No aspiration toxicity classification

Section 12: Ecological Information

Toxicity	Toxicity to fish: LC50 (Oncorhynchus tshawytscha (chinook salmon)): > 10 mg/l Exposure time: 24 h Test Type: semi-static test LC50 (Leuciscus idus (Golden orfe)): 440 mg/l Exposure time: 48 h Test Type: static test Test substance: Non neutralised product Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h Test Type: static test. Test substance: Non neutralised product Method: OECD Test Guideline 202 EC50 (Dreissena polymorpha): > 50 mg/l Exposure time: 48 h Test Type: static test Toxicity to algae: NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Exposure time: 8 d Test Type: static test. Test substance: Non neutralised product Toxicity to microorganisms: TT (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h. Test substance: Non neutralised product
Persistence and Degradability	Biodegradability: Biodegradation: 97 % Testing period: 28 d Method: OECD Test Guideline 301B Test substance: Non neutralised product Readily biodegradable. Biodegradation: 100 % Information given is based on data obtained from similar substances. Physico-chemical removability: Readily biodegradable.
Bio-accumulative Potential	Partition coefficient: noctanol/water: log Pow: -1.8 – -0.2 Calculation Bioaccumulation: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
Mobility in Soil	No data available
Other Adverse Effects	Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). Additional ecological information: This product has no known ecotoxicological effects.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Waste from residues: In accordance with local and national regulations. Where possible recycling is preferred to disposal or incineration.
Waste Treatment Methods Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know Act SARA 311/312 Hazards: Fire Hazard 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. Clean Water Act This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 California Prop. 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. The components of this product are reported in the following inventories: EINECS: On the inventory, or in compliance with the inventory TSCA: On TSCA Inventory TSCA_12b: Not applicable DSL: All components of this product are on the Canadian DSL REACH: On the inventory, or in compliance with the inventory.

Section 16: Other Information

Additional Information	N/A
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