

Section 1: Identification			
<b>Common Name/Trade Name</b>	SODIUM CITRATE ANHYDROUS USP		
<b>Supplier Information</b>	<table border="1"> <tr> <td>Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693</td> <td><b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)</td> </tr> </table>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)		
<b>Product Synonym(s)</b>	Trisodium citrate; 2-Hydroxy-1,2,3-propanetricarboxylic acid trisodium salt.		
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances		

Section 2: Hazards Identification	
<b>Classification of Substance or Mixture</b>	Not classified
<b>Signal Word</b>	None
<b>Hazard Statement(s)</b>	N/A
<b>Pictogram(s)</b>	N/A
<b>Precautionary Statement(s)</b>	N/A
<b>Hazards Not Otherwise Classified</b>	Combustible Dust
<b>Ingredient(s) with Unknown Toxicity</b>	No data available

Section 3: Composition/Information on Ingredients	
<b>Chemical Name</b>	Sodium citrate
<b>Common Name</b>	Sodium Citrate Anhydrous
<b>CAS Number</b>	68-04-2
<b>Impurities and/or Stabilizing Additives</b>	No data available

Section 4: First Aid Measures	
<b>General Advice</b>	When symptoms persist or in all cases of doubt seek medical advice. Notes to Physician: Treat symptomatically.
<b>If Inhaled</b>	Move to fresh air.
<b>In Case of Skin Contact</b>	Wash off with warm water and soap.
<b>In Case of Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>If Swallowed</b>	Clean mouth with water and afterwards drink plenty of water.
<b>Most Important Symptoms and Effects</b>	Eyes: Contact with eyes may cause mechanical irritation. Skin: Product dust may cause mild, mechanical irritation. Inhalation: Dust may cause irritation of respiratory tract. Ingestion: Health injuries are not known or expected under normal use.

Section 5: Fire Fighting Measures	
<b>Suitable Extinguishing Media</b>	Suitable Extinguishing Media: Water. Carbon dioxide (CO2) Foam. Dry powder. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Special Hazards Arising From the Substance/Mixture</b>	Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO2). Specific Hazards Arising from the Chemical: Combustible material. Sensitivity to static discharge: Yes. (as dust).
<b>Special PPE and/or Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Ensure adequate ventilation. Avoid dust formation. Avoid sparks, flames, static electricity discharges, etc.in the presence of dust.
<b>Methods and Materials Used for Containment</b>	Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so.
<b>Cleanup Procedures</b>	Shovel or sweep up. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities."
<b>Conditions for Safe Storage</b>	Keep in a dry, cool and well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Exposure Limits: Where there is airborne dust, exposure limits pertaining to 'particulates not otherwise regulated' have been given: Chemical Name/ACGIH TLV/OSHA PEL/Mexico/NIOSH: Particulates not otherwise regulated/TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended, TWA: 3 mg/m <sup>3</sup> respirable particles, recommended/TWA: 15mg/m <sup>3</sup> total dust, TWA: 5 mg/m <sup>3</sup> respirable fraction/not listed/not listed.
<b>Appropriate Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice.
<b>PPE - Eye/Face Protection</b>	If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended.
<b>PPE - Skin Protection</b>	Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.
<b>PPE - Body Protection</b>	Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.
<b>PPE - Respiratory Protection</b>	If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Colorless to White Powder / Crystalline Granules
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	Not applicable
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	Not applicable
<b>pH</b>	approx 8.0
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	Decomposes before melting
<b>Solubility</b>	Insoluble in Alcohol. Water Solubility: approx 36%
<b>Initial Boiling Point and Boiling Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Avoid dust formation
<b>Incompatible Materials</b>	No materials to be especially mentioned
<b>Hazardous Decomposition Products</b>	None under normal use. Thermal decomposition may lead to release of: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral >8000 mg/kg bw (rat)
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	No data available
<b>Skin Corrosion/Irritation</b>	Based on available data, not, or only slightly irritating.
<b>Serious Eye Damage/Irritation</b>	Based on available data, no evidence of serious eye damage/irritation.
<b>Respiratory or Skin Sensitization</b>	Based on available data, not expected to be a skin or respiratory sensitizer.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity IARC</b>	No data available
<b>Carcinogenicity ACGIH</b>	TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended. TWA : 3mg/m <sup>3</sup> respirable particles, recommended
<b>Carcinogenicity NTP</b>	No data available
<b>Carcinogenicity OSHA</b>	OSHA PEL: TWA: 15 mg/m <sup>3</sup> total dust, TWA: 5 mg/m <sup>3</sup> respirable fraction
<b>Reproductive Toxicity</b>	Based on available data, no evidence of reproductive toxicity.
<b>Specific Target Organ Toxicity - Single Exposure</b>	No evidence of toxicity.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No evidence of toxicity.
<b>Aspiration Hazard</b>	Based on available data, no known aspiration hazard.

## Section 12: Ecological Information

<b>Toxicity</b>	Contains no substances known to be hazardous to the environment. Chemical name/Fresh Water Algae/Acute Fish Toxicity/Daphnia (Water flea): Sodium citrate/EC50:96h 18000 - 32000 mg/L (Chlorella vulgaris)/LC50: 96h 18000-32000 mg/L (Poecilia reticulata)/EC50: 48h 5600 - 10000 mg/L (Daphnia magna)
<b>Persistence and Degradability</b>	Inherently biodegradable.
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Can be landfilled or incinerated, when in compliance with local regulations.
<b>Waste Treatment Methods Packaging</b>	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

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

## Section 15: Regulatory Information

International Inventories: The components of this product are reported in the following inventories Yes/No: TSCA/Yes, DSL/Yes, NDSL/No, EINECS/Yes 200-675-3, ELINCS/No, AICS/Yes, ENCS ISHL/Yes (2)-1323, CHINA/Yes, PICCS/Yes, KECL/Yes KE-20843, NZIoC/Yes. USA: Federal Regulations: Ozone Depleting Substances: No Class I or Class II material is known to be used in the manufacture of, or contained in, this product. SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to reporting requirements of the Act or regulations contained in 40 CFR 372. SARA 302: Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 302. SARA 311/312 Hazardous Categorization: Acute Health Hazard/No, Chronic Health Hazard/No, Fire Hazard/No, Sudden Release of Pressure Hazard/No, Reactive Hazard/No. Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63) This product is not known to contain any HAPS. State Regulations: State Right-to Know: No known components subject to "Right-To-Know" legislation. Canada: WHMIS Product Classification: Not a WHMIS controlled product. Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12. WHMIS Ingredient Disclosure List IDL: No known component is listed on the WHMIS ingredients disclosure list. (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. Mexico: Mexico - Grade: Slight risk, Grade 1.

## Section 16: Other Information

<b>Additional Information</b>	
<b>Prepared By</b>	Lisa Russell
<b>Revision Date</b>	01/08/2019 13:37

### Disclaimer

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