

Section 1: Identification			
<b>Common Name/Trade Name</b>	CYCLANDELATE USP		
<b>Supplier Information</b>	<table border="1"> <tr> <td>Letco Medical 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 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 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>	3,3,5-Trimethylcyclohexanol alpha-phenyl-alpha-hydroxyacetate		
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances		

Section 2: Hazards Identification	
<b>Classification of Substance or Mixture</b>	Not a hazardous substance or mixture.
<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>	No data available
<b>Ingredient(s) with Unknown Toxicity</b>	No data available

Section 3: Composition/Information on Ingredients	
<b>Chemical Name</b>	3,3,5-Trimethylcyclohexanol alpha-phenyl-alpha-hydroxyacetate
<b>Common Name</b>	Cyclandelate
<b>CAS Number</b>	456-59-7
<b>Impurities and/or Stabilizing Additives</b>	No data available

Section 4: First Aid Measures	
<b>General Advice</b>	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
<b>If Inhaled</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>In Case of Skin Contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>In Case of Eye Contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>If Swallowed</b>	Rinse mouth. If ingestion of a large amount does occur, call poison control center immediately
<b>Most Important Symptoms and Effects</b>	No data available

Section 5: Fire Fighting Measures	
<b>Suitable Extinguishing Media</b>	Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or CO2.
<b>Special Hazards Arising From the Substance/Mixture</b>	No unusual fire or explosion hazards noted.
<b>Special PPE and/or Precautions for Firefighters</b>	Wear suitable protective equipment. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Methods and Materials Used for Containment</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.
<b>Cleanup Procedures</b>	Sweep or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	As a general rule, when handling chemicals, avoid all contact and inhalation of dust, mist, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and others exposed skin thoroughly.
<b>Conditions for Safe Storage</b>	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	No exposure standards allocated.
<b>Appropriate Engineering Controls</b>	Airborne exposures should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side shields are recommended. Face shields or goggle may be required if splash potential exists or if corrosive materials are present. Approved eye protection is preferred. Maintain eyewash facilities in the work area.
<b>PPE - Skin Protection</b>	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
<b>PPE - Body Protection</b>	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
<b>PPE - Respiratory Protection</b>	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place. (applicable U.S. regulation OSHA 29 CFR 1910.34)

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: Powder Physical state: Solid Colour: White powder
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Slight menthol or camphor-like odor.
<b>Vapor Pressure</b>	0.0000001 kPa at 25 °C
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	122 - 127.4 °F (50 - 53 °C)
<b>Solubility</b>	Solubility in water: Practically soluble
<b>Initial Boiling Point and Boiling Range</b>	377.6 - 381.2 °F (192 - 194 °C)
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<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 reactivity hazards known.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	No dangerous reaction know under conditions of normal use.
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	No data available
<b>Hazardous Decomposition Products</b>	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral Mouse >10 g/kg mg/kg Rat 5 mg/kg
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	Due to lack of data the classification is not possible.
<b>Skin Corrosion/Irritation</b>	Due to lack of data the classification is not possible.
<b>Serious Eye Damage/Irritation</b>	Due to lack of data the classification is not possible.
<b>Respiratory or Skin Sensitization</b>	Due to lack of data the classification is not possible.
<b>Germ Cell Mutagenicity</b>	Due to lack of data the classification is not possible.
<b>Carcinogenicity IARC</b>	Due to lack of data the classification is not possible. This material is not considered to be a carcinogen by IARC.
<b>Carcinogenicity ACGIH</b>	Due to lack of data the classification is not possible. This material is not considered to be carcinogen by ACGIH.
<b>Carcinogenicity NTP</b>	Due to lack of data the classification is not possible. This material is not considered to be carcinogen by NTP.
<b>Carcinogenicity OSHA</b>	Due to lack of data the classification is not possible. This material is not considered to be a carcinogen by OSHA.
<b>Reproductive Toxicity</b>	Due to lack of data the classification is not possible.
<b>Specific Target Organ Toxicity - Single Exposure</b>	Due to lack of data the classification is not possible.
<b>Specific Targer Organ Toxicity - Repeated Exposure</b>	Due to lack of data the classification is not possible.
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

<b>Toxicity</b>	No ecotoxicity data noted for the ingredients.
<b>Persistence and Degradability</b>	No data available
<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 in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
<b>Waste Treatment Methods Packaging</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Special Precautions Landfill or Incinerations</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<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

CERCLA/SARA Hazardous Substances-Not applicable. All components are on the U.S EPA TSCA Inventory list. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories: Immediate Hazard: No Delayed Hazard: No Fire Hazard: No Pressure Hazard: No Reactivity Hazard: No SARA 302 Extremely hazardous substance: No SARA 311/312 Hazardous chemical: No Other federal regulations: SAFE Drinking Water Act: Not regulated. Food and Drug Administration: Not regulated. Us State regulations: California Safe Drinking Water and Toxic Enforcement Act 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. Issue Date 05/06/2003 Revision Date 01/24/2014.

## Section 16: Other Information

<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	05/19/2015 15:38

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