

Section 1: Identification

Common Name/Trade Name	CARBIDOPA 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)
Product Synonym(s)	Carbidopa hydrate	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Serious eye damage/eye irritation (Category 2B)	
Signal Word	Warning	
Hazard Statement(s)	H320	Causes eye irritation
Pictogram(s)	N/A	
Precautionary Statement(s)	P264 P305+P351+P338 P337+P313	Wash hands thoroughly after handling. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. If eye irritation persists Get medical advice/attention.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data Available	

Section 3: Composition/Information on Ingredients

Chemical Name	Benzenepropanoic acid, alpha-hydrazino-3,4-dihydroxy-alpha-methyl-, monohydrate, (S)
Common Name	Carbidopa
CAS Number	38821-49-7
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	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.
If Inhaled	Move to fresh air. Call a physician if symptoms develop or persist.
In Case of Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Remove contact lenses , if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If Swallowed	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms and Effects	Irritation of eyes and mucous membranes.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Water. Foam. Dry chemical or CO2.
Special Hazards Arising From the Substance/Mixture	No unusual fire or explosion hazards noted.
Special PPE and/or Precautions for Firefighters	Wear suitable protective equipment. 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.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	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.
Methods and Materials Used for Containment	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. Clean surface thoroughly to remove residual contamination.
Cleanup Procedures	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. Clean surface thoroughly to remove residual contamination.

Section 7: Handling and Storage

Precautions for Safe Handling	As a general rule, 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 other exposed skin thoroughly.
Conditions for Safe Storage	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

Components with Workplace Control Parameters	No biological exposure limits noted for the ingredient(s). No exposure standards allocated.
Appropriate Engineering Controls	Airborne exposure 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.
PPE - Eye/Face Protection	Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g. bearing the ANSI Z87 or CSA Stamp) is preferred. Maintain eyewash facilities in the work area.
PPE - Skin Protection	Hand protection: 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.
PPE - Body Protection	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.
PPE - Respiratory Protection	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

Appearance	White to creamy white powder. Physical state: Solid. Form: Powder.
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Odorless or practically odorless
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	4 - 6 (91% suspension)
Relative Density	No data available
Melting Point/Freezing Point	Melting point/freezing point: 397.4-406.4°F (203-208°C) (decomposes)
Solubility	Slightly soluble in water.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	Not applicable.
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical Stability	Stable at normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Mouse 1750 mg/kg, Rat 4810 mg/kg
Acute Toxicity - Inhalation	Due to lack of data the classification is not possible.
Acute Toxicity - Dermal	Due to lack of data the classification is not possible.
Acute Toxicity - Eye	Causes eye irritation
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Causes eye irritation.
Respiratory or Skin Sensitization	Due to lack of data the classification is not possible.
Germ Cell Mutagenicity	Due to lack of data the classification is not possible.
Carcinogenicity IARC	Due to lack of data the classification is not possible.
Carcinogenicity ACGIH	Due to lack of data the classification is not possible.
Carcinogenicity NTP	Due to lack of data the classification is not possible.
Carcinogenicity OSHA	Due to lack of data the classification is not possible.
Reproductive Toxicity	Due to lack of data the classification is not possible.
Specific Target Organ Toxicity - Single Exposure	Due to the lack of data the classification is not possible.
Specific Target Organ Toxicity - Repeated Exposure	Due to lack of data the classification is not possible.
Aspiration Hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity	Acute: Crustacea LC50 Daphnia magna >8.4 mg/l
Persistence and Degradability	No data is available on the degradability of this product.
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	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. 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.
Waste Treatment Methods Packaging	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.
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

US Federal regulations: CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Superfund Ammendments and Reauthorization Act of 1986 (SARA): Hazard categories: Immediate Hazard-Yes, Delayed Hazard-No, Fire Hazard-No, Pressure Hazard-No, Reactivity Hazard-No. SARA 302 Extremely hazardous substance: No. SARA 311/312 Hazardous chemical: Yes. Other federal regulations: Safe Drinking Water Act (SDWA): Not regulated. Food and Drug Administration (FDA): Not regulated. US state regulations: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories: Country(s) or region/Inventory Name/On Inventory (yes/no)*: Australia, Australian Inventory of Chemical Substances (AICS), No. Canada, Domestic Substances List (DSL), No. Canada, Non-Domestic Substances List (NDSL), No. China, Inventory of Existing Chemical Substances in China (IECSC), No. Europe, European Inventory of Existing Commercial Chemical Substances (EINECS), No. Europe, European List of Notified Chemical Substances (ELINCS), No. Japan, Inventory of Existing and New Chemical Substances (ENCS), No. Korea, Existing Chemicals List (ECL), No. New Zealand, New Zealand Inventory, No. Philippines, Philippine Inventory of Chemicals and Chemical Substances (PICCS), No. United States & Puerto Rico, Toxic Substances Control Act (TSCA) Inventory, No. *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

Section 16: Other Information

Additional Information	
Prepared By	Lisa Russell
Revision Date	01/14/2019 17:12

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