

Section 1: Identification

Common Name/Trade Name	GLYCOPYRROLATE 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)	GCP. 1-dimethyl-, bromide", "3-[(cyclopentylhydroxyphenylacetyl)oxy]-1	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Skin irritation (Category 2), Eye irritation (Category 2), Specific target organ toxicity - single exposure (Category 3)	
Signal Word	Warning	
Hazard Statement(s)	H315 H319 H335	Causes skin irritation Causes serious eye irritation May cause respiratory irritation
Pictogram(s)		
Precautionary Statement(s)	P261 P305+P351+P338	Avoid breathing dust/fume/gas/mist/vapours/spray. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing.
Hazards Not Otherwise Classified	Other hazards - None	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Glycopyrrolate
Common Name	Glycopyrrolate
CAS Number	596-51-0
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms and Effects	Acute Health Effects: Swallowed: Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 grams may be fatal or may produce serious damage to the health of the individual. Anticholinergics can cause loss of vision. Effects associated with their use include increased heart rate, decreased saliva production and other secretions and reduction in bowel movements. Adverse effects include dry mouth, difficulty swallowing and speaking, thirst, dilated pupils, loss of focus, sensitivity to light, skin flushing and dryness, a temporary slowing of heart rate followed by rapid heart rate with palpitations and irregularities in rhythm. There may be vomiting, pain in the chest and dizziness. Toxicity due to overdose may result in rapid breathing, high fever, restlessness, confusion, excitement, paranoia, psychosis, hallucinations, delirium, seizures and convulsions. A rash may occur on the face or upper trunk. Severe intoxication can depress the central nervous system, causing incoordination, drowsiness, stupor, unconsciousness, coma, stoppage of circulation and breathing, and death. Quaternary ammonium anticholinergic agents, in high doses, can cause postural hypotension and impotence. Paralysis may occur at very high doses

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	No data available
Special PPE and/or Precautions for Firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Methods and Materials Used for Containment	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Cleanup Procedures	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Do not let product enter drains.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Conditions for Safe Storage	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations. NOTE: Store in the dark.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not let product enter drains.
PPE - Eye/Face Protection	Use Safety glasses with side shields. Use equipment for eye protection.
PPE - Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
PPE - Body Protection	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
PPE - Respiratory Protection	For nuisance exposures use particle respirator. For higher level protection use respirator cartridges. Use respirators and components tested and approved under appropriate government standards

Section 9: Physical and Chemical Properties

Appearance	Form: Solid
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	Neutral
Relative Density	No data available
Melting Point/Freezing Point	193-198°C
Solubility	mixes with water (1:4.2), alcohol (1:30)
Initial Boiling Point and Boiling Range	No data available
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
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 data available
Chemical Stability	Stable under normal temperature and pressures or recommended conditions. In dry form relatively stable to light.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Presence of incompatible materials. Product is considered stable. Hazardous polymerization will not occur.
Incompatible Materials	Strong oxidizing agent
Hazardous Decomposition Products	Hazardous polymerization will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Oral (rat) LD50: 709 mg/kg Nil Reported. Intraperitoneal (rat) LD50: 90 mg/kg. Subcutaneous (mouse) LD50: 122 mg/kg. Intravenous (mouse) LD50: 15 mg/kg Oral (rabbit) LD50: 2360 mg/kg Intravenous (rabbit) LD50: 29.1 mg/kg. Oral toxicity (Mouse) LD50: 570 mg/kg Oral LD50 in mice 107 mg / kg i.p.; >1 g / kg
Acute Toxicity - Inhalation	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). The dust may produce eye discomfort causing smarting, pain and redness. Anticholinergic eye drops can cause stinging, dryness, redness, itch, dilated pupils, and loss of focus with blurred vision. Pupil Reflexes may be lost or diminished for 3 days.
Skin Corrosion/Irritation	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Toxic effects may result from skin absorption.
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	No data available
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. Prolonged exposure to anticholinergic agents may irritate the eyes, causing allergic lid reactions, conjunctivitis, swelling, excess blood flow to the eyes, and sensitivity to light. Increase in eye pressure may lead to closed-angle glaucoma. There may be hypersensitivity shown by conjunctivitis, rash and eczema. Anticholinergics can also cause chronic constipation with blockage of the intestine by faeces.
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	No data available
Persistence and Degradability	No data available
Bio-accumulative Potential	Air. The products of degradation are as toxic as the product itself. Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.
Mobility in Soil	Water/Soil.
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Recycle wherever possible. Special hazard may exist - specialist advice may be required. Consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury or incinerate residue at an approved site. Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed. Puncture containers to prevent re-use and bury at an authorised landfill. Observe local/national regulations regarding waste disposal.
Waste Treatment Methods Packaging	Recycle wherever possible. Special hazard may exist - specialist advice may be required. Consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury or incinerate residue at an approved site. Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed. Puncture containers to prevent re-use and bury at an authorised landfill. Observe local/national regulations regarding waste disposal.
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

No further data available.

Section 16: Other Information

Additional Information	N/A
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