

Material Safety Data Sheet

Revision date: 05/29/2012 **Print date:** 05/29/2012

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Glycopyrrolate Injection, USP

Product code: 0143-9682-25;

0143-9681-25; 0143-9680-25 0143-9679-10

Synonyms: Robinul

Chemical Family:Anticholinergic Agent.Product Type:Regulated Prescription Drug

Container Information: 1 and 2 mL single dose vials or 5 and 20 mL multiple dose vials

Product Use: Pharmaceutical

Supplier:

WEST-WARD PHARMACEUTICALS

EATONTOWN, NJ 07724

Emergency telephone number: CHEMTREC: USA & Canada (800) 424-9300 OUTSIDE USA +1 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	UN Number:	Classification: None		
Glycopyrrolate 596-51-0	0.02	None			
Benzyl Alcohol 100-51-6	<1	UN1986 (flammable, toxic); UN1987 (alcohol); UN3065 (alcoholic beverages)	Xn;R20/22		
Water 7732-18-5	>99	None	None		

3. HAZARDS IDENTIFICATION

Emergency overview: Irritation potential to skin, eyes, and mucous membranes. Do not ingest. Avoid skin

contact. Avoid eye contact. Wash thoroughly after handling.

Principle routes of exposure: Absorbed through skin. Eye contact. Ingestion.

Inhalation: Inhalation not likely under normal use conditions. May cause respiratory tract

irritation.

Product name: Chromywelete Injection LISP

3. HAZARDS IDENTIFICATION

Ingestion: Gastrointestinal effects (may include nausea, upset stomach, loss of appetite).

Cardiovascular effects (may include fluctuations in heart rate, changes in blood pressure, chest pain). Nervous system effects (may include drowsiness, confusion, hallucinations, convulsions, visual disturbances, headache, coma). May irritate

digestive tract.

Skin contact: May cause irritation and/or allergic reactions.

Eye contact: Irritating to eyes.

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing

is difficult, give oxygen. Get medical attention if symptoms appear.

Skin contact: In case of contact, immediately flush skin with plenty of water. Get medical attention

if irritation develops.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If large quantities of this material are

swallowed, call a physician immediately.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention.

Notes to physician: See patient package insert in shipping carton for complete information.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:Use foam or all purpose dry chemicals to extinguish.

Special protective equipment for firefighters: Fire fighters should wear positive pressure self-contained

breathing apparatus (SCBA) and full turnout gear.

Specific methods: No information available.

Flash point:

Autoignition temperature:

Flammable limits in air-lower (%):

Not available

Not available

Not available

Not available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep unnecessary personnel away. Use suitable protective equipment (Section 8).

Follow all fire fighting procedures (Section 5).

Environmental precautions: No information available.

Methods for cleaning up: If emergency personnel are unavailable, contain spilled material. For small spills add

absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a

waterway. Place spilled material in an appropriate container for disposal.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions: Wash thoroughly after handling.

Storage:

Technical measures/storage

conditions:

Keep containers tightly closed in a cool, well-ventilated place. Store at controlled

temperatures between 20°C and 25°C (68°F and 77°F).

Incompatible products: No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Component	OSHA- Time Weighted Average:	OSHA- Short Term Exposure Limit:	OSHA- Ceiling Limits	ACGIH- Time Weighted Average:	ACGIH- Short Term Exposure Limit:	ACGIH- Ceiling Limit Value:
Glycopyrrolate 596-51-0	None	None	None	None	None	None
Benzyl Alcohol 100-51-6	None	None	None	None	None	None
Water 7732-18-5	None	None	None	None	None	None

Engineering measures:

No special containment is required. Provide general or local exhaust ventilation.

Personal protective equipment:

Respiratory protection: Perform exposure monitoring for this product and its components to ensure that

employees are not exposed to levels greater than applicable regulatory limits. If exposure levels exceed regulatory limits, implement a respiratory protection program including respiratory protection that is in compliance with OSHA 29 CFR1910.134 (in the US) or equivalent regulation in other regions. Fire fighting requires the use of a self-contained breathing apparatus with full face piece and positive pressure mode.

Hand protection: Use chemical resistant, impervious gloves.

Skin and body protection: Work uniform or laboratory coat.

Eye protection: Safety glasses with side-shields. Goggles, face shield, or other full-face protection if

potential exists for direct exposure to aerosols or splashes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Appearance: Aqueous solution

Color: Colorless Odor: Not available. 2.0 - 3.0Molecular weight: Not applicable Boiling point/range: Not available. Melting point/range: Not available. Density: Not available. Vapor pressure: Not available. **Evaporation rate:** Not available. Soluble in water. Solubility:

9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient

(n-octanol/water):

Not available.

Viscosity:

Not available.

% Volatile by Volume:

Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: Not applicable

Hazardous decomposition

products:

Not available.

Materials to avoid:

Oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Component	LD50s and LC50s
Glycopyrrolate	Oral LD50 Rat = 709 mg/kg
596-51-0	Oral LD50 Mouse = 570 mg/kg Oral LD50 Rabbit = 2360 mg/kg Intravenous LD50 Mouse = 15 mg/kg Intravenous LD50 Rabbit = 29.1 mg/kg Intravenous LD50 Dog = 25 mg/kg Intramuscular LD50 Cat = 283 mg/kg
Benzyl Alcohol	Oral LD50 Rat = 1230 mg/kg
100-51-6	Oral LD50 Mouse = 1360 mg/kg Dermal LD50 Rabbit = 2 gm/kg
Water 7732-18-5	Oral LD50 Rat: >50000 mg/kg

Acute toxicity: Signs and symptoms of overexposure to Anticholinergic drugs may include lethargy,

drowsiness, coma, confusion, agitation, hallucinations, convulsions, visual disturbances, dry flushed skin, dry mouth, decreased bowel sounds, urinary retention, increased heart rate, high blood pressure, and supraventricular

arrhythmias.

Chronic toxicity: Contains material which may cause damage to the following organs: skin, eye, lens

or cornea.

Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. No data is available on

the product itself.

Mutagenic effects: No data is available on the product itself.

Reproductive toxicity: May impair fertility based on animal data. Not considered fetotoxic based on animal

data. See patient package insert for additional information.

FDA Pregnancy Category B

12. ECOLOGICAL INFORMATION

Environmental properties:

Component	Ecotoxicity - Water Flea Data	Ecotoxicity	Ecotoxicity - Freshwater Algae Data	Microtox Etoxicity Data
Glycopyrrolate 596-51-0	None.	None.	None.	None.
Benzyl Alcohol 100-51-6	= 23 mg/L EC50 water flea	LC50 (96 hr) fathead minnow:460 mg/L: Static, 18-22°C; LC50 (96 hr) bluegill:10 mg/L: Static.	None.	= 63.7 mg/L EC50 Photobacterium phosphoreum = 71.4 mg/L EC50 Photobacterium phosphoreum
Water 7732-18-5	None.	None.	None.	None.

Ecotoxicity effects: No data available

Bioaccumulation: No data available

13. DISPOSAL CONSIDERATIONS

Waste Classification: Not regulated.

Waste from residues / unused Wa

Waste disposal must be in accordance with appropriate Federal, State, and local

products: regulations.

14. TRANSPORT INFORMATION

DOT:

DOT shipping name:
UN Number:
None
DOT Packing Group:
None
DOT Hazard class:
None

TDG (Canada):

TDG Proper shipping name:

TDG UN/NA Number:

None

TDG Packing Group:

None

TDG Hazard class:

None

ADR/RID:

ADR Official Transport Name:

ADR Proper shipping name:

ADR UN/NA number:

None

ADR Hazard Class:

None

ICAO / IATA:

IATA Proper shipping name:NoneIATA UN NUMBERNoneIATA Primary HazardNoneIATA Packing group:None

Product id: 1087965 Product name: Glycopyrrolate Injection, USP

14. TRANSPORT INFORMATION

ICAO ERG Code: None

IMO / IMDG:

IMDG Proper Shipping Name:NoneIMDG Hazard Class and Division:NoneIMDG Packing Group:NoneIMDG Subsidiary Risks:None

15. REGULATORY INFORMATION

U.S. Regulations:

TSCA Inventory List - The product is exempt from TSCA, it is FDA Regulated

Japanese Inventory (ENCS)

This product does not comply with JPENCS

Component	Weight %	RCRA Status:	CERCLA Reportable Quantity:	CERCLA/SARA - 302 Ext. haz. substances:	Listed as Sara 313 title III:
Glycopyrrolate	0.02	Not Listed	Not Listed	Not Listed	Not Listed
Benzyl Alcohol	<1	Not Listed	Not Listed	Not Listed	Not Listed
Water	>99	Not Listed	Not Listed	Not Listed	Not Listed

STATE REGULATIONS:

Component	California Prop	Minnesota	Florida Right-	Rhode Island	Massachusetts	Pennsylvania	New Jersey Right-to-
	65:	Right-To -	to-Know	Right-to-Know	Right-to-Know	Right-to-Know:	Know:
		Know:	Reporting List:	List:	List:	_	
Glycopyrrolate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Benzyl Alcohol	Not Listed	Present	Not Listed	Not Listed	Present	[present]	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

CANADIAN REGULATIONS:

Canada DSL Inventory List -

EU EINECS List -

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This product does not comply with DSL This product complies with EINECS

Risk Phrases:

NONE

Safety Phrases:

NONE

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):

Updated NDC codes

Additional information:

Not Available.

Prepared by: West-Ward Pharmaceuticals

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End of safety data sheet

Product id: 1087965 Product name: Glycopyrrolate Injection, USP