Luitpold Pharmaceuticals

AMERICAN REGENT, INC.

MATERIAL SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY INFORMATION

Luitpold Pharmaceuticals, Inc.
P.O. Box 9001
Shirley, New York 11967
(800) 645-1706
(631) 924-4000

Chemtrec 24/7 Emergency Telephone Number
Domestic North America: (800) 424-9300
International: +1 703-527-3887

PRODUCT NAME: **Droperidol Injection, USP**

PRODUCT CODE (NDC): **2.5 mg/mL: 0517-9702-25**

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance / Odor	Clear, colorless to slightly, pale yellow, odorless solution.
WARNING!	
Skin, eye and respiratory irritant	Causes slight irritation of the eyes, skin and respiratory tract.
Toxicity to fish/aquatic organisms	Product is not known to be toxic to fish.
Potential Health Effects: See Section 11 for more information	
Likely Routes of Exposure	Eye contact, skin contact, inhalation and ingestion.
Eye	Causes slight irritation of the eye.
Skin	Causes slight irritation of the skin.
Inhalation	May cause irritation of the upper and lower respiratory tract.
Ingestion	May cause irritation of the gastrointestinal tract.
Skin Absorption	Not absorbed through the skin.
Medical Conditions Aggravated by Exposure	Personnel with sensitivity to this product. Workers with impaired neurological or cardiovascular systems should avoid exposure to this product.
Target Organs	Central nervous system and cardiovascular system.

continued on next page

Section 2: HAZARDS IDENTIFICATION (continued)	
Potential Environmental Effects: See Section 12 for more information	This product is not known to be toxic to fish.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS		
Component	CAS Number	Percentage (%) by Weight
Droperidol	548-73-2	0.3 percent
Lactic Acid	79-33-4	used for pH adjustment
Sodium Hydroxide	1310-73-2	used for pH adjustment
Water for Injection	7732-18-5	99.7 percent

Section 4: FIRST AID MEASURES	
Eye Contact	Causes irritation. Flush for 15 minutes with copious quantities of water. Seek medical attention.
Skin Contact	May cause irritation. Remove contaminated clothing. Flush area with copious quantities of water for 15 minutes. Seek medical attention.
Inhalation	May cause irritation of respiratory tract. Dyspnea is possible with inhalation exposures. Remove person to fresh air. Remove contaminated clothing. Seek medical attention.
Ingestion	Ingestion of product may cause irritation. Flush mouth out with water. Seek medical attention.
Injection	See prescribing information.
Note to Physicians	Exposure to this product may result in syncope, chills, shivering, dizziness, dysphoria, drowsiness and palpitations. Hypotension, arrhythmia and ventricular tachycardia may be observed following exposure. Hypersensitivity to this product is possible. See prescribing information.

Section 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media	Water spray, foam, dry chemical or Carbon Dioxide (CO_2). **Caution**: CO_2 will displace air in confined spaces and may cause an Oxygen deficient atmosphere.
Unsuitable Extinguishing Media	None.
Hazardous Combustion Products	When heated, Droperidol solution thermally decomposes to form toxic vapors. (i.e. Carbon Monoxide, Carbon Dioxide, Halogenated Compounds and Nitrogen Oxides).
Protection for Firefighters: Droperidol solution thermally decomposes to form toxic vapors. Vapors may be irritating to eyes and skin and toxic to respiratory tract. Firefighters are to wear self-contained breathing apparatus (SCBA) and full turn out gear (Bunker gear). Cool containers with water spray and use caution when approaching.	

Section 6: ACCIDENTAL RELEASE MEASURES	
Personnel Precautions	Use personal protective equipment recommended in Section 8 of this document and isolate the hazard area.
Environmental Precautions	This material is not considered a water pollutant. However, it is recommended to prevent spilled or leaking material from entering waterways.
Methods of Containment	Absorb material with suitable materials such as clay absorbent or absorbent pads for aqueous solutions.
Methods of Clean Up	Vacuum spillage with a vacuum cleaner having a high efficiency particulate (HEPA) filter, or absorb liquid with clay absorbent, absorbent pads or paper towels. Use plastic tools to scoop up, sweep or containerize spilled material. Use plastic drums to contain spilled materials. Wipe working surfaces to dryness, and then wash with soap and water.
Other Information	A spill of this material does not need to be reported to the National Response Center.

Section 7: HANDLING AND STORAGE

Handling:

As a general rule, when handling pharmaceutical products, avoid all contact and inhalation of mists or vapors associated with the product. Avoid contact with skin, eyes or clothing. Do not mix with other drugs.

Use in a well ventilated area. Wash thoroughly after handling.

Storage:

Store in a well ventilated area. Keep containers closed when not in use. Product residue may remain in empty containers. Observe all label precautions until container is cleaned, discarded or destroyed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	OSHA PEL	ACGIH TLV	OTHER
Dopamine HCl	Not listed	Not listed	
Sodium Hydroxide	2 milligrams per cubic meter	2 milligrams per cubic meter - Ceiling	
Lactic Acid	Not listed	Not listed	
Water for Injection	Not listed	Not listed	

Personal Protective Equipment	Description
Ventilation	Local exhaust or general ventilation is recommended.
Respiratory Protection	Under normal conditions of product use, respiratory protection is not required. When required, use a NIOSH approved air purifying respirator with combination P-100 / organic vapor cartridges.
Eye Protection	Wear ANSI approved chemical splash goggles or safety glasses.
Skin Protection	When administering this product to patients, wear nitrile or latex gloves. Use Tyvek™ SL or equivalent coveralls, PVC booties and nitrile gloves for clean up activities.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Clear, colorless to slightly pale yellow solution.
Odor / Odor Threshold	Odorless
Physical State	Liquid
pH	3.0 to 3.8
Freezing Point	Approximately 32 degrees Fahrenheit
Boiling Point	Approximately 212 degrees Fahrenheit
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Nonflammable, noncombustible
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Vapor Pressure	Not applicable

continued on next page

Section 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)	
Vapor Density	Not applicable
Specific Gravity	Approximately 1.0
Solubility (water)	Freely soluble in water
Partition Coefficient	Not applicable
Auto-ignition Temperature	Not applicable
Percent Volatile	0 Percent
Volatile Organic Compounds (%)	0 Percent

Section 10: STABILITY AND REACTIVITY	
Stability	Stable.
Conditions to Avoid	Do not mix with other drugs. Avoid heat, light and humidity. Keep away from flames, thermally decomposes to form toxic vapors.
Incompatible Materials	Reactive with oxidizers, alkalis and iron salts.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, halogenated compounds and nitrogen oxides may be released by thermal decomposition.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.

Section 11: TOXICOLOGY INFORMATION		
Acute Effects		
Oral (LD_{50})	LD_{50}:	750 mg/kg oral - rat
Intraperitoneal (LD_{50})	LD_{50}:	72 mg/kg intraperitoneal - mouse
Intravenous (LD_{50})	LD_{50}:	30 mg/kg intravenous - rat
Subcutaneous (LD_{50})	LD_{50}:	>100 mg/kg subcutaneous - rat
Dermal (LD_{50})	No data available.	
(TD_{LO})	TD_{LO}: TD_{LO}:	223 micrograms/kg oral - human 133 micrograms/kg intravenous - human
Inhalation	Respiratory irritation is possible.	
Eye Irritation	Eye irritation is possible.	
Skin Irritation	Skin irritation is possible.	
Sensitization	Some personnel may be hypersensitive to this product. Workers with pheochromocytoma, impaired neurological or cardiovascular systems should avoid exposure to this product.	

Section 11: TOXICOLOGY INFORMATION (continued)	
Chronic Effects	
Organ Systems	Prolonged or repeated exposure may lead to central nervous system and cardiovascular damage.
Carcinogenicity	Droperidol is not considered carcinogenic. No adequate and well controlled studies in humans have been conducted.
Mutagenicity	Droperidol is not considered mutagenic. No adequate and well controlled studies in humans regarding the mutagenic effects of Droperidol have been conducted.
Reproductive Effects	Droperidol is not considered a reproductive toxin. No adequate and well controlled studies in humans regarding the reproductive effects of Droperidol have been conducted.
Developmental Effects	Droperidol is not considered a teratogen. No adequate and well controlled studies in humans regarding the teratogenic effects of Droperidol have been conducted. Classified as Pregnancy Category C.

Section 12: ECOLOGICAL INFORMATION	
Ecotoxicity	No data available.
Persistence / Degradability	Short term products of biodegradation are not likely. Long term degradation products may arise.
Bioaccumulation / Accumulation	No applicable bioaccumulation is expected in the environment.
Mobility in Environment	Appreciable volatilization is not expected into the air.

Section 13: DISPOSAL CONDITIONS	
Disposal	Do not mix with other substances. Dispose of in accordance with Federal, state and local regulations. Contact your state or local government environmental and / or sanitation department for guidance on disposal.

Section 14: TRANSPORTATION INFORMATION	
Regulatory Agency	**Shipping Description**
US DOT (ground)	Not considered a DOT regulated material - Non hazardous for shipment.
Canadian TDG (ground)	See US DOT
IATA (air)	Not considered a DOT regulated material - Non hazardous for shipment.

Section 15: REGULATORY INFORMATION	
STATE RIGHT TO KNOW	Refer to the applicable state to determine applicability.
California Safe Drinking Water & Toxic Enforcement Act (Prop 65)	This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65.
RTECS Number	DE2100000
TSCA	8b Inventory - Not listed
NFPA Rating	Health - 1, Fire - 1, Reactivity - 0
WHMIS (Canada)	Not controlled.

Section 16: OTHER INFORMATION

Droperidol Injection is indicated to reduce the incidence of nausea and vomiting associated with surgical and diagnostic procedures.

Refer to Luitpold / American Regent's prescribing information for further information at http://www.americanregent.com/product_index.asp

Prepared By: Christopher Seniuk CIH CSP

The information above is believed to be accurate and represents the best information currently available to American Regent. The information has not been verified and we cannot, therefore, guarantee its accuracy or completeness or adequacy for all persons and situations or as to the results to be obtained by use of the information. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. Users should make their own investigations to determine the suitability of the information for their own particular purposes. The user assumes all risks from use of the product. In no event shall Luitpold, its subsidiaries, its affiliates and its contractors be liable for any claims, losses or damages of any third party, or for lost profits, or for any special, indirect, incidental, consequential or exemplary damages however arising, even if Luitpold has been advised of the possibility of such damages.