

MATERIAL SAFETY DATA SHEET

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LLOYD, Inc.

Phone No. (712) 246-4000

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P.O. Box 130, Shenandoah, IA 51601-0130

Butorphic[®] Injection, 10 mg/mL butorphanol

MSDS Date: 2/17/10 (Original)

Product Name: Butorphic[®] Injection, 10 mg/mL butorphanol

1. INGREDIENTS: (% w/w), unless otherwise noted

COMPONENT	CAS#	%	EXPOSURE LIMITS, ppm	
			OSHA PEL	ACGIH TLV (mg/m ³)
Butorphanol Tartrate	58786-99-5	1	Not established (NE)	

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Only those ingredients composing $\geq 1\%$ ($\geq 0.1\%$ for carcinogens or suspect carcinogens) of the formula (w/w) and which have been identified as hazards are listed.

2. PHYSICAL DATA:

APPEARANCE: Liquid (solution)

COLOR: Clear, colorless

ODOR: None

Other physical data have not been determined.

3. FIRE AND EXPLOSION HAZARD DATA:

This has not been evaluated.

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder, or foam.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

4. REACTIVITY DATA:

This has not been evaluated. The product is stable under normal storage conditions. Exposure to sunlight should be avoided.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Mop up and wash down area with water.

DISPOSAL METHOD: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

6. HEALTH HAZARD DATA:

EYES: This product may be absorbed through the conjunctiva.

SKIN: This product may be absorbed through the dermis.

INHALATION: Not normally an inhalation hazard, but it may produce symptoms similar to ingestion.

INGESTION: Ingestion may cause CNS effects, GI tract effects.

ACUTE EFFECTS OF EXPOSURE: Sedation, nausea, clamminess, sweatiness, headache, vertigo, dizziness, lethargy, confusion, lightheadedness, nervousness, euphoria, hallucinations, insomnia, palpitations, bradycardia, abdominal cramps, constipation, vomiting, rash, itching.

CHRONIC EFFECTS OF EXPOSURE: None known

CARCINOGENIC EFFECTS: This product is not considered a carcinogen and is not listed by OSHA,

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IRAC or NTP.

7. FIRST AID:

EYES: Flush with copious amounts of water for at least 15 minutes, occasionally lifting upper and lower eyelids. (Check person for contact lenses and remove if present). If redness or irritation persists have eyes examined by doctor immediately.

SKIN: Wash with soap and water for at least 15 minutes (remove all contaminated clothing and shoes). Get medical attention if symptoms persist.

INGESTION: No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities are ingested.

INHALATION: Move to fresh air. If breathing is difficult give oxygen, if respiratory arrest occurs provide artificial respiration and seek immediate medical attention.

Seek medical attention immediately if excessive exposure occurs. A physician or a poison control center should be consulted.

8. HANDLING PRECAUTIONS:

During manufacturing or handling of liquid wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles and outer protective clothing.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Exercise reasonable care and caution. Avoid contact with eyes, skin, and clothing. Avoid generating or breathing product aerosol or splash. Wash after handling.

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSDS for health and safety information.

U.S. REGULATIONS: SARA HAZARD CATEGORY: This product has been reviewed according to the federal EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to be exempt from reporting requirements. Nevertheless, potential reporters should check with their state emergency response commissions to determine if this product must be reported under applicable state requirements.