

#### MATERIAL SAFETY DATA SHEET

Product Name: Buprenorphine Hydrochloride Injection



#### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Manufacturer Name** Hospira, Inc.

And Address 275 North Field Drive

Lake Forest, Illinois 60045

USA

**Emergency Telephone** 

CHEMTREC: 800 424-9300

Hospira, Inc.

224 212-2055

**Product Name** Buprenorphine Hydrochloride Injection

**Synonyms** None

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Buprenorphine Hydrochloride **Ingredient Name** 

**Chemical Formula** C<sub>29</sub>H<sub>42</sub>ClNO<sub>4</sub>

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Buprenorphine Hydrochloride	0.03	53152-21-9	KM7758000
Water	99	7732-18-5	ZC0110000

#### 3. HAZARD INFORMATION

**Emergency Overview** In clinical use, this material is used as a narcotic analgesic to treat pain. Target

organs include the nervous system, respiratory system, eyes, gastrointestinal

tract, cardiovascular system, and fetus.

**Occupational Exposure** 

**Potential** 

Information on the absorption of this compound via ingestion,

inhalation or skin contact is not available. Avoid liquid aerosol generation and

skin contact with solution.

Signs and Symptoms No signs or symptoms from occupational exposure are known. Clinical data

suggests the following: sedation, nausea, dizziness/vertigo, sweating, headache, hypotension, vomiting, hypoventilation, miosis, confusion, blurred vision, euphoria, weakness, fatigue, dry mouth, nervousness, depression, slurred speech, paresthesia, altered heart rate, constipation, dyspnea, cyanosis, pruritis,

diplopia and visual abnormalities.

**Medical Conditions** Aggravated by Exposure Hypersensitivity to the material and/or similar materials. Data suggest asthma, head injury, liver dysfunction, renal dysfunction, pre-existing central

nervous system, ocular and gastrointestinal ailments.

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#### 4. FIRST AID MEASURES

**Eye Contact:** Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Skin Contact:** Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Inhalation:** Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic / supportive care as necessary.

**Ingestion:** Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic / supportive care as necessary.

#### 5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Fire & Explosion

Hazard:

None

**Extinguishing Media:** Use extinguishing media appropriate for the underlying cause of fire.

**Special Fire Fighting** 

Procedures

No special provisions required beyond normal fire fighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Absorb liquid with suitable material and clean affected area with soap and

water. Dispose of materials according to the applicable federal, state, or local

regulations.

#### 7. HANDLING AND STORAGE

**Handling** Protect from light by retaining in carton until contents have been used.

**Storage** No special storage required for hazard control. For product protection store at

controlled room temperature of 15-30°C (59-86°F).

**Special Precautions** Protect from freezing, light and extreme heat.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

	Exposure limits			
Component	OSHA-PEL	ACGIH-TLV	Hospira EEL	
Buprenorphine Hydrochloride	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: 0.3 mcg/m3	
	Established	Established	STEL: Not Established	

Notes: OSHA PEL: US Occupational Safety and Health Administration – Permissible Exposure Limit

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

EEL: Employee Exposure Limit.
TWA: 8 hour Time Weighted Average.
STEL: 15-minute Short Term Exposure Limit.

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**Respiratory Protection** Respiratory protection is not needed during normal product use.

**Skin Protection** If solution contact with unprotected skin is likely, use of impervious gloves is a

prudent practice.

**Eye Protection** Eye protection is not required during expected product use conditions but may

be warranted should a splash potential exist.

**Engineering Controls** Engineering controls are not needed during normal product use conditions.

### 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical

Clear, colorless to slightly yellow liquid

State

Odor Not Determined **Boiling Point** Not Determined Freezing Point Not Determined Vapor Pressure Not Determined Vapor Density (Air=1) Not Determined **Evaporation Rate** Not Determined **Bulk Density** Not Determined **Specific Gravity** Not Determined

**Soluble** in water and dextrose solutions

**pH** 3.5 - 5.5

#### 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under standard use and storage conditions.

**Incompatibilities** None

**Hazardous** Oxides of carbon, nitrogen and chlorine.

Decomposition Products

**Hazardous** None

**Polymerization** 

### 11. TOXICOLOGICAL INFORMATION:

#### **Acute Toxicity:**

Ingredient(s)	Percent	Test Type	Value	Units	Species
Buprenorphine	100	LD50	260	ma/ka	Rats
Hydrochloride	100	LD30	>1000	mg/kg	Mice

LD50 is the oral dosage that produces 50% mortality.

Product contains approximately 0.03% Buprenorphine Hydrochloride.

Mutagenicity Not Determined

**Target Organ Effects** In clinical use target organ effects include the nervous system, respiration, eyes,

gastrointestinal tract and cardiovascular system.

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#### 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity Not Determined.

# 13. DISPOSAL CONSIDERATIONS:

Waste Disposal Disposal should be performed in accordance with the federal, state or local

regulatory requirements.

**Container Handling** Dispose of container and unused contents in accordance with federal, state,

and Disposal and local regulations.

# 14. TRANSPORTATION INFORMATION

**DOT** Not Regulated

Notes: DOT - US Department of Transportation Regulations

#### 15. REGULATORY INFORMATION

TSCA Status

CERCLA Status

Not Regulated
Not Regulated
Not Regulated
Not Regulated
Not Regulated
RCRA Status

Not Regulated
Not Regulated
PROP 65 (Calif.)

Not Regulated

Notes: TSCA Toxic Substance Control Act

CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act

SARA Superfund Amendments and Reauthorization Act RCRA US EPA, Resource Conservation and Recovery Act

Prop 65, California Proposition 65

## 16. OTHER INFORMATION:

MSDS Coordinator T. Straits MPH, CIH Date Prepared September 15, 2005

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