

Date Prepared: 08/06/1996  
Date Reviewed: 08/06/1996

**THIAMINE HYDROCHLORIDE INJECTION**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: Thiamine HCl

General Use: Vitamin

**MANUFACTURER**

American Pharmaceutical Partners, Inc.  
1101 Perimeter Drive  
Schaumburg, IL 60173-5837  
(847) 969-2700

**EMERGENCY TELEPHONE NUMBER:**

(708) 450-7500

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component: *Chlorobutanol*

CAS Registry #: 57-15-8

OSHA PEL: NE	mg/m3	OSHA PEL: NE	ppm
ACGIH TLV: NE	mg/m3	ACGIH TLV: NE	ppm
STEL: NE	mg/m3	STEL: NE	ppm

Percent of Product: 0.5%

Note: NA

Component: *Monothioglycerol*

CAS Registry #: 96-27-5

OSHA PEL: NE	mg/m3	OSHA PEL: NE	ppm
ACGIH TLV: NE	mg/m3	ACGIH TLV: NE	ppm
STEL: NE	mg/m3	STEL: NE	ppm

Percent of Product: 0.5%

Note: NA

Component: *Thiamine Hydrochloride*

CAS Registry #: 67-03-8

OSHA PEL: NE	mg/m3	OSHA PEL: NE	ppm
ACGIH TLV: NE	mg/m3	ACGIH TLV: NE	ppm
STEL: NE	mg/m3	STEL: NE	ppm

Percent of Product: NG

Note: 100 mg/ml

Component: *Water for Injection*

CAS Registry #: 7732-18-5

OSHA PEL: NE	mg/m3	OSHA PEL: NE	ppm
ACGIH TLV: NE	mg/m3	ACGIH TLV: NE	ppm
STEL: NE	mg/m3	STEL: NE	ppm

Percent of Product: NG

Note: QS to volume

**3. HAZARD IDENTIFICATION**

PRIMARY ROUTES OF EXPOSURE - Inhalation, Eye/Skin Absorption and Ingestion.

CHEMICAL LISTING AS CARCINOGEN: (NO)

National Toxicology Program, IARC Monographs, OSHA

<u>COMPONENT</u>	<u>CAS No.</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Chlorobutanol	57-15-8			
Monothioglycerol	96-27-5			
Thiamine Hydrochloride	67-03-8			

**COMPONENT**  
Water for Injection

**CAS No.**  
7732-18-5

**NTP**  
NO

**IARC**  
NO

**OSHA**  
NO

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#### 4. EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move person to fresh air immediately. Give artificial respiration and cardiopulmonary resuscitation (CPR) if required. Seek medical attention.

Ingestion: Flush mouth out with water immediately. Seek medical attention.

Skin Contact: Remove contaminated clothing immediately. Flush area with water for at least 15 minutes. Seek medical attention.

Eye Contact: Immediately flush with water for at least 15 minutes. Seek medical attention.

For Adverse Drug Reaction Information call (708) 547-2372.

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#### 5. FIRE FIGHTING MEASURES

Fire and Explosion Data:

Closed Cup Flash Pt. 200.0

Open Cup Flash Pt. NE

Fire Point NE

Autoignition NE

Lower Explosion Limit NE

Upper Explosion Limit NE

GENERAL HAZARD: When heated to decomposition it emits toxic fumes.

FIRE FIGHTING INSTRUCTION: Water spray, dry chemical, carbon dioxide or foam as appropriate.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, and toxic fumes of SO<sub>x</sub> and NO<sub>x</sub>.

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#### 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP: Wear recommended personal protective equipment. Use absorbent towels or booms to clean-up spill. Wipe surfaces clean and wash with soap and water.

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#### 7. HANDLING AND STORAGE

When handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with the product.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

General room ventilation is usually satisfactory, use local exhaust ventilation when necessary.

PERSONAL PROTECTION:

Respirators - With satisfactory ventilation, respiratory protection not usually required.

Eyes - Safety glasses or goggles recommended.

Gloves - Disposable latex gloves recommended.

Clothing - Disposable garments if direct skin contact is anticipated.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor other characteristics: Clear, colorless, nut like odor.

Boiling Point: NE

Vapor Density: NE

Melting Point: 248° C

Percent Volatiles: NE

Freezing Point: NE

pH: 2.5-4.5

Vapor Pressure: NE

Molecular Weight: 337.3

Note:

Solubility: Water

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#### 10. STABILITY AND REACTIVITY

Stability - Stable.

Conditions/Materials to Avoid - Exposure to light and/or heat may cause decomposition.

Hazardous Polymerization - Will not occur.

## 11. TOXICOLOGY INFORMATION

### SIGNS & SYMPTOMS OF OVEREXPOSURE MAY INCLUDE:

This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert. Occupational exposure has not been fully investigated.

LD50: 200mg/kg Intraperitoneal mouse

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin and respiratory conditions.

IMMEDIATE EFFECTS: Eye, skin and respiratory irritation may occur.

DELAYED EFFECTS: Hypersensitivity reactions ranging from mild to severe may occur.

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## 12. TRANSPORT INFORMATION

UN/NA Number: NA

DOT Hazard Class: NA

Shipping Name: NA

Shipping Label: NA

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## 13. WASTE DISPOSAL

Waste Disposal - Dispose of in accordance with federal, state and local regulations.

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## 14. OTHER INFORMATION

### KEY TO ABBREVIATIONS:

ACGIH - American Conference of Governmental Industrial Hygienists

HEPA - High-Efficiency Particulate Air

IARC - International Agency for Research on Cancer

NA - Not Applicable

NE - Not Established

NG - Not Given

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

PPM - Parts Per Million

QS - Quantity Sufficient

RCRA - Resource Conservation and Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

The information contained herein pertains to this material. It is the responsibility of each individual party to determine for themselves the proper means of handling and using these materials based on their purpose and intended use. APP assumes no liability resulting from the use of, or reliance upon the information contained in this material safety data sheet. This material safety data sheet does not constitute the guaranty or specification of the product.