

# Material Safety Data Sheet

Revision: 05/16/2001



Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

## IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY

**PRODUCT NAME:**  
Pyridoxine Hydrochloride, Vitamin B<sub>6</sub>

**PRODUCT CODE:**  
20900

**EEC NUMBER:**  
None

**SUPPLIER:**  
USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128 Phone: (216) 765-5000

**Emergency Contact:**  
Chemtrec (800) 424-9300  
Outside USA & Canada 703 527 3887

## COMPOSITION/ HAZARDOUS COMPONENTS

### HAZARD

### CAS NO.

### %WT

### TLV

### CHIP R & S Phrases

Pyridoxine Hydrochloride

58-56-0

~ 100%

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R:36/37/38 Irritating to eyes, respiratory system and skin  
S:22 Do not breathe dust  
S:24/25 Avoid contact with skin and eyes

## HAZARDS IDENTIFICATION

### CHIP

Irritant

### HCS

Irritant

## FIRST-AID MEASURES

**EYES:** Flush with water for 15 minutes. Seek medical advice if irritation persists.

**SKIN:** Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

**INHALATION:** Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

**INGESTION:** Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

## FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen and sulfur oxides under conditions of fire. Use appropriate precaution for dust explosion hazard. Ground all equipment in contact with the dry material.  
Flash Point = No data available. Decomposition Temperature = 205°C.

## ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

## HANDLING AND STORAGE

Wear suitable protective clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Do not generate dust or expose to ignition sources. Ground and bond all transfer equipment. Use adequate ventilation. Store out of direct sunlight in a cool, well ventilated area.

## PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.

For Further Information, contact your local USB authorized distributor, Amersham Pharmacia Biotech	<b>Asia Pacific</b> +852 2811 8693	<b>Canada</b> 1 800 463 5800	<b>Former Soviet Union</b> +7 (095) 232 0250	<b>Japan</b> 81 3 5331 9337	<b>Norway</b> 63 89 23 10	<b>Spain</b> 935 944 950	<b>USA</b> <b>USB Corporation</b> (216) 765-5000 If purchased from Amersham Pharmacia Biotech use 1 800 526 3593
	<b>Australia</b> +61 2 9894 5188	<b>Central and East Europe</b> +43 1 982 3826	<b>France</b> 0169 18 28 00	<b>Latin America</b> +55 11 3667 5700	<b>Portugal</b> 01 417 70 35	<b>Sweden</b> 018 164000	
	<b>Austria</b> 01 576 0616 10	<b>Denmark</b> +45 4516 2400	<b>Germany</b> 07 61 49 03 0	<b>Middle East and Africa</b> +30 (1) 96 00 687	<b>South East Asia</b> 60 3 724 2080	<b>Switzerland</b> 01 802 81 50	
	<b>Belgium</b> 0800 73888	<b>Finland</b> 358 (9) 512 3940	<b>Italy</b> 02 27322 1	<b>Netherlands</b> 0165 580 410	<b>South East Europe</b> +43 (1) 982 3826	<b>UK</b> 0800 515313	

MSDS information may be continued on back of page.

**PHYSICAL AND CHEMICAL  
PROPERTIES**

Appearance: White crystalline solid, odorless  
Vapor Pressure: No data available  
Solubility (Water): Soluble  
Percent Volatile: No data available  
Chemical formula: C8-H11-N-O3 · HCl

Boiling Point: No data available  
Vapor Density: 7.1  
Specific Gravity: 0.36 kg/l (bulk)  
Evaporation Rate: No data available  
Melting Point: 202-206 °C

**STABILITY AND REACTIVITY**

Product is stable. Caution: material is light sensitive. Avoid light, neutral aqueous solutions, heat (may cause dimerization and irradiation in neutral or alkaline solutions. Incompatible with strong oxidizing agents, bases, iron, heavy metals, trace minerals and chloride gas. Hazardous decomposition products include carbon and nitrogen oxides and hydrogen chloride gas. Hazardous polymerization will not occur.

**TOXICOLOGICAL INFORMATION**

EFFECTS OF OVEREXPOSURE: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.  
EYES: May cause irritation.  
SKIN: May cause skin irritation.  
INHALATION: Excessive dust may cause irritation to mucous membranes and upper respiratory tract.  
INGESTION: Chronic ingestion or excessive dosage may cause nausea, vomiting, insomnia, urine discoloration, ataxia and peripheral sensory neuropathy (deterioration of nerves and nerve tissue).  
ADDITIONAL INFORMATION:  
Reproductive effects, mutation and toxicity data listed in RTECS under UV1350000.  
Oral Rat LD50 = 4 gm/kg (1961). Toxic effects may included convulsions, dyspnea, hypermotility, diarrhea, ataxia and muscle weakness.  
Reproductive: Effects on newborn - biochemical and metabolic (1974).  
Specific developmental abnormalities - central nervous system (1974).  
Maternal effects - postpartum (1983).  
Paternal effects - testes, epididymis, sperm duct, prostate, seminal vesicle, Cowper's gland and spermatogenesis (1992).  
Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

**ECOLOGICAL INFORMATION**

No information available

**DISPOSAL CONSIDERATIONS**

Dispose of material in accordance with applicable local, state, and federal regulations.

**TRANSPORTATION INFORMATION**

US DOT / IATA: No applicable information.

**REGULATORY INFORMATION**

RCRA - No applicable information.  
SARA 302 -This material does not have an RQ or TPQ.  
SARA 313 -This material is not reportable under 313.  
Exposure Limits - Not established.  
EPA TSCA Section 8(b) - Chemical Inventory.  
California Proposition 65 - No applicable information.