Not appropriate for regulatory submission. Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.
Table of Contents

- Product Specification
- Certificate of Analysis Sample(s)
- Safety Data Sheet (SDS)
- Certification of Current Good Manufacturing Practices (cGMP)
- Manufacturing Process Flowchart
- Source Statement
- BSE/TSE Statement
- Allergen Statement
- EU Fragrance Allergen Statement
- GMO Statement
- Melamine Statement
- Nitrosamine Statement
- Animal Testing Statement
- Organic Compliance Statement
- Shelf Life Statement
- Other Chemicals Statement
- Elemental Impurities Statement
- Residual Solvents Statement
- General Label Information – Sample Label
• General Lot Numbering System Guidance

• Kosher Certificate

• Halal Certificate
### Specification for Pyridoxine Hydrochloride, USP (PY103)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>PY103</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Pyridoxine Hydrochloride, USP</td>
</tr>
<tr>
<td>CAS Number</td>
<td>58-56-0</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C₈H₁₁NO₃•HCl</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>205.64</td>
</tr>
<tr>
<td>MDL Number</td>
<td></td>
</tr>
<tr>
<td>Synonyms</td>
<td>Adermine Hydrochloride; 3-Hydroxy-4,5-bis(hydroxymethyl)-2-picoline Hydrochloride; Vitamin B6 Hydrochloride</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPEARANCE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>IDENTIFICATION (A) FTIR</strong></td>
<td>SPECTRUM MATCHES REFERENCE</td>
</tr>
<tr>
<td><strong>IDENTIFICATION (B)</strong></td>
<td>POSITIVE FOR CHLORIDE</td>
</tr>
<tr>
<td><strong>ASSAY</strong></td>
<td>98.0</td>
</tr>
<tr>
<td><strong>CHLORIDE CONTENT</strong></td>
<td>16.9</td>
</tr>
<tr>
<td><strong>LOSS ON DRYING</strong></td>
<td>0.5</td>
</tr>
<tr>
<td><strong>RESIDUE ON IGNITION</strong></td>
<td>0.1</td>
</tr>
<tr>
<td><strong>ELEMENTAL IMPURITIES</strong></td>
<td>AS REPORTED</td>
</tr>
<tr>
<td><strong>CERTIFIED KOSHER</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFIED HALAL</strong></td>
<td></td>
</tr>
<tr>
<td><strong>RETEST DATE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>DATE OF MANUFACTURE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>RESIDUAL SOLVENTS</strong></td>
<td>AS REPORTED</td>
</tr>
<tr>
<td><strong>CLASS 3 (solvent) / ETHANOL</strong></td>
<td>.</td>
</tr>
<tr>
<td><strong>MONOGRAPH EDITION</strong></td>
<td></td>
</tr>
</tbody>
</table>

_Spectrum Chemical Mfg Corp_

**Corporate Headquarters:** 769 Jersey Ave.  14422 S. San Pedro St.  New Brunswick, NJ 08901  Gardena, CA 90248  732.214.1300  310.516.8000
## Certificate Of Analysis

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item</th>
<th>Lot Number</th>
<th>CAS Number</th>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY103</td>
<td>Pyridoxine Hydrochloride, USP</td>
<td>1KF0780</td>
<td>58-56-0</td>
<td>C₈H₁₁NO₃·HCl</td>
<td>205.64</td>
</tr>
</tbody>
</table>

### TEST | SPECIFICATION | RESULT
---|---|---
APPEARANCE | | WHITE CRYSTALLINE POWDER
IDENTIFICATION (A) FTIR | SPECTRUM MATCHES REFERENCE | SPECTRUM MATCHES REFERENCE
IDENTIFICATION (B) | POSITIVE FOR CHLORIDE | POSITIVE FOR CHLORIDE
ASSAY | 98.0 % | 102.0 % | 99.7 %
CHLORIDE CONTENT | 16.9 % | 17.6 % | 17.2 %
LOSS ON DRYING | 0.1 % | 0.5 % | 0.02 %
RESIDUE ON IGNITION | 0.1 % | 0.02 % | 0.01 %
ELEMENTAL IMPURITIES | AS REPORTED | NO ELEMENTAL IMPURITIES PRESENT
CERTIFIED KOSHER | | CERTIFIED KOSHER
CERTIFIED HALAL | | CERTIFIED HALAL
RETEST DATE | | 18-APR-2025
DATE OF MANUFACTURE | | 19-APR-2025
RESIDUAL SOLVENTS | AS REPORTED | .<5000 ppm
CLASS 3 (solvent) / ETHANOL | . | . | <5000 ppm
MONOGRAPH EDITION | | (USP) 43

Spectrum Chemical Mfg Corp
14422 South San Pedro Street
Gardena 90248 CA

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum’s chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer’s responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <233> Elemental Impurities - Limits and <233> Elemental Impurities - Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected
elements are not exceeded in the formulation of pharmaceutical products.
1. Identification

Product identifier

Product Name          PYRIDOXINE HYDROCHLORIDE, USP

Other means of identification

Product Code(s)       PY103
Synonyms              None

Recommended use of the chemical and restrictions on use

Recommended use       No information available
Restrictions on use   No information available

Details of the supplier of the safety data sheet

Supplier Address      Spectrum Chemical Mfg. Corp.
                      14422 South San Pedro St.
                      Gardena, CA 90248
                      (310) 516-8000

Emergency telephone number

Emergency Telephone   Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).</th>
</tr>
</thead>
</table>

The product contains no substances which at their given concentration, are considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Crystals or Crystalline</th>
<th>Physical state</th>
<th>Solid</th>
<th>Odor</th>
<th>Odorless</th>
</tr>
</thead>
</table>
**3. Composition/information on ingredients**

**Substance**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyridoxine Hydrochloride</td>
<td>58-56-0</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. First-aid measures**

**Description of first aid measures**

**Inhalation**
Remove to fresh air.

**Eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**
Wash skin with soap and water.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**
Treat symptomatically.

**5. Fire-fighting measures**

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire**
CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**
Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical**
No information available.

**Hazardous combustion products**
Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx).

**Explosion data**

**Sensitivity to mechanical impact**
none.

**Sensitivity to static discharge**
none.

**Special protective equipment for fire-fighters**
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Ensure adequate ventilation.

**Methods and material for containment and cleaning up**

**Methods for containment**
Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**
Pick up and transfer to properly labeled containers.

7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling**
Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**
Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits**
The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

**Appropriate engineering controls**

**Engineering controls**
Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
No special protective equipment required.

**Skin and body protection**
No special protective equipment required.

**Respiratory protection**
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

**Information on basic physical and chemical properties**
Physical state  Solid
Appearance  Crystals or Crystalline powder
Color  White; Off-white
Odor  Odorless
Odor threshold  No information available

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>207 °C / 404.6 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.44 estimated</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td>None known</td>
</tr>
</tbody>
</table>
| Solubility(ies)                              | Soluble in Propylene glycol
Very slightly soluble in acetone
Slightly soluble in alcohol
Insoluble in diethyl ether
Insoluble in Chloroform | None known       |
| Partition coefficient                        | No data available | None known       |
| Autoignition temperature                     | no data available | None known       |
| Decomposition temperature                    | No data available | None known       |
| Kinematic viscosity                          | no data available | None known       |
| Dynamic viscosity                            | No data available | None known       |
| Other information                            | No information available | |
| Explosive properties                         | No information available | |
| Oxidizing properties                         | No information available | |
| Softening point                              | No information available | |
| Molecular weight                             | 205.64           |                  |
| VOC Content (%)                              | No information available | |
| Liquid Density                               | No information available | |
| Bulk density                                 | No information available | |

10. Stability and reactivity

Reactivity  No information available.
Chemical stability  Stable under recommended storage conditions.
Possibility of hazardous reactions  None under normal processing.
Conditions to avoid  None known based on information supplied.
Incompatible materials  None known based on information supplied.
Hazardous decomposition products  None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Inhalation  Specific test data for the substance or mixture is not available.
Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyridoxine Hydrochloride</td>
<td>4 g/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>58-56-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Respiratory or skin sensitization No information available.
Germ cell mutagenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.
Other adverse effects No information available.
Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.
Persistence and degradability No information available.
Bioaccumulation Inherently biodegradable.
Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging Do not reuse empty containers.

14. Transport information
15. Regulatory information

### International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>This product complies with ENCS:</td>
</tr>
<tr>
<td>IECSC</td>
<td>This product complies with China:</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).</td>
</tr>
</tbody>
</table>

**Legend:**
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level.
pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**
This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

**NFPA**
Health hazards 0
Flammability 0
Instability 0
Physical and chemical properties -

**HMIS**
Health hazards 0
Flammability 0
Physical hazards 0

**Personal protection** X

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

Section 8: EXPOSURE CONTROLS/PERSOINAL PROTECTION

TWA  TWA (time-weighted average)  STEL  STEL (Short Term Exposure Limit)

Ceiling  Maximum limit value

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

**Revision date** 27-May-2021
**Revision Note** No information available.

**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,
transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY103</td>
<td>Pyridoxine Hydrochloride, USP</td>
</tr>
</tbody>
</table>

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632
Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com

Sincerely,

Oralia Chavez
Quality Assurance Specialist
Manufacturing Process Flowchart

Pyridoxine Hydrochloride, USP (Cat# PY103)

4-Methyl-5-ethoxyloxazole n-Propyl dioxepin → Addition reaction

Ethanol, HCl, EDTA → Aromatization

Ethanol → Hydrolysis

Active carbon → Decoloration

Water, HCl, Ethanol → Crystallization

Drying → Blending

Milling → Packaging

Finished product
Source Statement
The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

BSE/TSE Statement
The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

Allergen Statement
The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy
- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

EU Fragrance Allergen Statement
The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

GMO Statement
The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

Melamine Statement
The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.
Nitrosamine Statement

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

Animal Testing Statement

The above mentioned catalog item has not been tested on animals.

Organic Compliance Statement

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

Shelf Life Statement

The above mentioned catalog item is typically assigned a shelf life of 48 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

Other Chemicals Statement

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances
- Parabens
- Pesticides
- Phthalates
- Preservatives
RE: Elemental Impurities - Pyridoxine Hydrochloride, USP (Cat# PY103)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. No Class 1, Class 2A, Class 2B or Class 3 elemental impurities are likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at TechServices@spectrumchemical.com.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.
RE: Residual Solvents - Pyridoxine Hydrochloride, USP (Cat# PY103)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

<table>
<thead>
<tr>
<th>Residual Solvent</th>
<th>Class</th>
<th>Expected Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>3</td>
<td>&lt; 5000 ppm</td>
</tr>
</tbody>
</table>

No Class 1, Class 2 or other solvents are used or produced in the manufacturing process of this material.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at TechServices@spectrumchemical.com.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.
Pyridoxine Hydrochloride
[3-Hydroxy-4,5-bis(hydroxymethyl)2-picoline Hydrochloride; Vitamin B6 Hydrochloride]

USE CARE: This material has been evaluated per GHS/OSHA criteria and is not classified as hazardous. All chemicals may pose unknown hazards and must be used with caution. Use personal protection and safe handling methods consistent with proper workplace safety practices. Consult SDS for additional properties and precautions. If adverse reaction occurs seek medical attention.

KEEP FROM CHILDREN

CAUTION: For manufacturing, processing or repacking, read and understand the label and Safety Data Sheet (SDS) prior to use.

Chemical Emergency: (800) 424-9300
www.SpectrumChemical.com

Py103  SIZ SY

C_{8}H_{11}NO_{3}\cdot HCl  F.W. 205.64

Assay .............................................. 98.0-102.0%
Chloride Content .................. 16.9-17.6%

MAXIMUM LIMITS
Loss on Drying .............................. 0.5%
Residue on Ignition  ..................... 0.1%
Elemental Impurities ................ As reported
Residual Solvents ....................... To pass test

LIGHT SENSITIVE: Keep tightly closed in light-resistant containers.

WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov

G 12/I8GHS  ?  Lot No. XQ####

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.
RE: Lot Numbering System

Dear Valued Customer:

This letter is to inform you of Spectrum Chemicals and Laboratory Products’ Lot Numbering System. The system is based on an alpha-numerical sequence which provides the month, year and location of production.

The lot numbering system utilized until 2010 is a sequence of six characters, two letters followed by four numbers. The first letter represents the year, for example, Y denotes 2009 and Z denotes 2010. The second letter represents the month and site, for example, A-L denotes January through December at Spectrum’s Gardena, CA facility, while M-X denotes January through December at the New Brunswick, NJ facility. The following four numbers are sequentially assigned.

Example: ZI0928 = The 928th material produced in California in September 2010

The lot numbering system utilized for 2011 and forward, is a sequence of seven characters. The first character, a number, represents the production facility:

1 = Gardena, CA Facility
2 = New Brunswick, NJ Facility
3 = China Facility
4 = Pharmacy, NJ Facility

The second character, a letter, represents the year. For example, A denotes 2011 and B denotes 2012. The third character, a letter, represents the month, with A denoting January and L denoting December. The following four numbers are sequentially assigned.

Example: 2AA0706 = The 706th material produced in New Jersey in January 2011

Thank you for your interest with Spectrum products. Please feel free to contact us at 310-516-8000 or via email at quality_assurance@spectrumchemical.com if we may be of further assistance.

Sincerely,

Oralia Chavez,
Quality Assurance Specialist
The following product(s) prepared by the named company are certified kosher with the stated requirements:

**Spectrum Laboratory Products, Inc.**  
S-0032  
14422 South San Pedro Street  
Gardena CA 90248  
USA

<table>
<thead>
<tr>
<th>Product Name</th>
<th>PY103, Pyridoxine Hydrochloride, USP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Spectrum</td>
</tr>
<tr>
<td>UKD-ID</td>
<td>KSAV3-T6P0M23</td>
</tr>
<tr>
<td>D/P/M</td>
<td>P</td>
</tr>
<tr>
<td>Symbol Required</td>
<td>KSA</td>
</tr>
</tbody>
</table>

This certificate expires on **Feb 01, 2023**

Rabbi Binyomin Lisbon  
Kashrus Administrator

Placing the KSA logo on products not listed above constitutes an unauthorized use of the KSA symbol, which is a federally registered trademark.
This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: November 02, 2021
Document #: 11205.11206.II214304

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Code</th>
<th>Halal-ID</th>
<th>Product Certificate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyridoxine Hydrochloride, USP</td>
<td>PY103</td>
<td>C13213</td>
<td>HC-21SP2B93</td>
</tr>
</tbody>
</table>

Muhammad Munir Chaudry, Ph.D.
President

This Certificate is valid until **August 31, 2022** and subject to renewal at that time.