Material Safety Data Sheet

According to Regulation (EC) No 1907/2006
Version 1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name :	Vitamin B6 Pyridoxine HCl 98-100.5% P.
Scientifc name :	Pyridoxine Hydrochloride
REACH Nr. :	A registration number for this substance is not available, as the substance or its use is exempted from registration registration, the annual tonnage does not require registration or registration is not required or the registration is registration is foreseen for a later date.
CAS-Nr. :	58-56-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Nutritional Ingredients

1.3 Details of the supplier providing the safety data sheet

Company :	Chem2market GmbH Planckstraße 17 22765 Hamburg
Phone :	+49 (0)40 80 79 60 10
Fax :	+49 (0)40 80 79 60 09
E-mail address :	QM@chem2market.com

1.4 Emergency number

Emergency Phone Number. : +49 (0)696 43508409

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye damage (Category 1)

H318: Causes serious eye damage.

2.2 Labelling elements (Labelling according Regulation (EC) No 1272/2008)

Pictogram

Signal word	Danger
Hazard Statements	
H318	Causes serious eye damage.
Precautionary Statements	
P280	Wear eye protection/ face protection.
P305 + P351 + P338 and easy to do	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Main constituent of the substance

Substance name: PN HCl
Aderminehydrochloride
Pyridoxolhydrochloride
Vitamin B6hydrochloride

Formula: C8H11NO3 ·HCl
Molecular weight: 205.64 g/mol
EC No.: 200-386-2
CAS No.: 58-56-0

Component		Classification	Concentration
pyridoxine hydrochloride			
CAS-No. EC-No.	58-56-0 200-386-2	Eye Dam. 1; H318	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of the first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

After **inhalation**: Ensure access to fresh air. Seek medical advice if symptoms occur.
After **skin contact**: Take off immediately all contaminated clothing. Rinse skin with water/shower.
After **eye contact**: Rinse out eyes with plenty of water. Immediately call in ophthalmologist.
After **ingestion**: Immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indications for immediate medical help or special treatment

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing agent

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No specific hazardous decomposition products known under normal conditions of use.

5.3 Advice for firefighting

Use self-contained breathing apparatus in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and dust formation. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental protection measures

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

For precautionary measures see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a cool, dry place.

7.3 Specific end applications

No uses other than those mentioned in Section 1.2 are intended.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

No occupational exposure limit values available.

8.2 Exposure controls

Eye protection: Use safety goggles or glasses complying with EN 166. Ensure availability of eye wash stations.
Hand protection: Wear protective gloves conforming to EN ISO 374 in case of prolonged or repeated contact.
Body protection: Wear suitable protective clothing conforming to local hygiene regulations.
Respiratory protection: Use particle-filtering half mask (e.g. FFP2) if dust is generated and local exhaust ventilation is insufficient.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Powder Colour: white
b) Odor	No data available
c) Odour threshold	No data available
d) pH value	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid,gas)	No data available
(j) Upper/lower flammability or explosion limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Solubility in water	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidising properties	No data available
u) Other safety information	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents, Bases

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In case of fire, hazardous decomposition products may be formed. - Oxides of carbon, oxides of nitrogen (NOx), oxides of phosphorus.

SECTION 11: Toxicological data

11.1 Information on toxicological effects

No toxicological data available. Not classified as hazardous.

Acute toxicity

LD50 Oral: rat - 4,000 mg/kg
Remarks: Behavioral: Convulsions or effect on seizure threshold.
Behavioral: Excitement.
Inhalation: No data available.
Dermal: No data available.

Corrosive/irritant effect on the skin

Skin - in vitro study
Result: no skin irritation - 15 Minutes (OECD Test Guideline 439)

Serious eye damage/irritation

Eyes: Bovine cornea
Result: Causes serious eye damage - 4h (OECD Test Guideline 437)

Sensitisation of the respiratory tract/skin

Maximisation Test - Guinea pig
Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 490
Result: negative
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Test Type: Mutagenicity (mammal cell test): micronucleus.
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative

Carcinogenicity

No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

SECTION 12: Ecological information
No data available. Not considered bioaccumulative or environmentally hazardous.

12.1 Toxicity

Toxicity to fish	static test LC50- Oncorhynchus mykiss (rainbow trout) -> 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) -> 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 72mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge -> 1.000 mg/l - 30 min (OECD Test Guideline 209)

12.2 Persistence and degradability
Biodegradability Result: 85% - Readily biodegradable. (OECD Test Guideline 301B)

12.3 Bioaccumulative potential
No bioaccumulation is to be expected (log Pow ≤ 4)

12.4 Mobility in soil
No data available

12.5 Results of the PBT and vPvB assessment
This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disruption properties
Product:
Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Dispose of product residues and packaging in accordance with local regulations.

SECTION 14: Transport information
Not classified as dangerous goods under ADR/RID/IMDG/IATA regulations.

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 Regular UN shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard classes
ADR/RID: - IMDG: - IATA: -

14.4 Packing group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for the user
No data available
Further information: Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Legislation

15.1 Safety, health and environmental regulations/specific legislation for the substance or mixture

Specific legislation for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

Full text of H-Statements:

H318 Causes serious eye damage.

This safety data sheet is provided for information purposes only. No liability is accepted for improper handling or use of the product. This information has been compiled to the best of our knowledge, but it does not claim to be complete and should be understood by the user as a guide only. Chem2Market GmbH excludes any liability for damage that may occur when handling or in contact with these chemicals.