

VITAMIN B6 (Pyridoxine Hydrochloride)

According to regulation of 01/12/10 GHS

Revision no. 1

Revision: 09/07/2012

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**1.1. Product identification****Trade name:** Vitamin B₆ hydrochloride , pyridoxine hydrochloride**Product reference:** 01260500, 01262600, 01261600**1.2. Relevant identified uses of the substance or mixture and uses advised against****Mainly use:** Industrial use**Specific use:** Vitamin for animal feed**1.3. Details of the supplier of the safety data sheet****Company name:** IMPEXTRACO NV**Address:** Wiekevorstsesteenweg 38, 2220 Heist op den Berg (B)**Telephone no.:** +32 15/ 222 425**Fax no.:** +32 15/ 222 424**1.4. Emergency telephone number****Belgian Poison Control Centre:** +32 70/ 245 245 (this phone number is accessible 24/24h and 7/7d)**2. HAZARD IDENTIFICATION****2.1. Classification of the substance or mixture**

2.1.1. Classification according to Regulation (EU) 1272/2008/EC

2.1.2. Classification according to directive 67/548/EC or 1999/45/EC

2.2. Labelling elements

2.2.1. Labelling according to Regulation 1272/2008 (EC):

Substance:

2.2.2. Labelling according to the directives (67/548/EC or 1999/45/EC):

Symbol(s):

2.2.3. Other Hazards

Other hazards which do not result in classification:

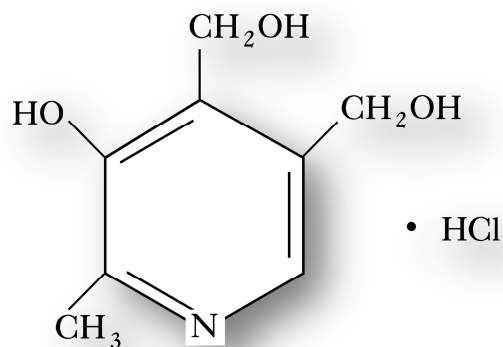
Results of PBT- and vPvB-assessment: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS
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3.1. Substances

Product-/ingredient name: 5 - hydroxy - 6 - methylpyridine - 3,4 - dimethanol hydrochloride

Chemical Formula: $C_8H_{11}NO_3 \cdot HCl$



CAS-no.:	58-56-0
EC no.:	CE [200-386-2]
INDEX no.:	No data available
% Concentration:	not less than 98.5 % of $C_8H_{11}NO_3 \cdot HCl$

3.2. Mixtures

Not applicable.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
Contact with skin:	first aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Contact with eyes:	If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
Ingestion:	First aid is not normally required. If symptoms develop, seek medical attention.

4.2. Main acute and delayed symptoms and effects

Inhalation:	This material may produce dust. Breathing small amounts of this material is not likely to be harmful.
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Contact with eyes:	Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes
Contact with skin:	Unlikely to cause skin irritation or injury.
Ingestion:	Swallowing this material is not likely to be harmful.

4.3. Identification of the required immediate medical attention and special treatment

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, extinguishing powder or water spray. Fight larger fires with water or alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons:

Do not use water jet.

5.2. Special hazards caused by the substance or mixture:

Fire hazard: May be combustible at high temperature.

Special risks: Possible decomposition products in case of fire: nitrogen oxides (NO_x), carbon oxides (CO, CO₂), hydrogen chloride (HCL).

Organic dusts can form explosive mixtures in air

5.3. Advice for firefighters

Advice for firefighters: Wear a self-contained breathing apparatus with a full face-piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective

equipment. Refer to the personal protective equipment section of this SDS.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-first aid personnel: Avoid contact with eyes: protective eye protection. Avoid inhalation of the dust. Avoid causing dust. Ensure adequate ventilation.
Wear the protective equipment required.
Reference to the precautions listed under heading 7 and 8.

Advice for firstaiders: Only qualified personnel equipped with suitable protective equipment may occur. See also section 8.

6.2. Environmental precautions

Spills - environmental precautions: do not allow product to reach sewage system or water bodies.

6.3. Collecting and cleaning methods and equipment

Cleaning methods:

Ensure adequate ventilation.

Collect mechanically.

Dispose of the material collected according to regulations.

6.4. Reference to other sections

See section 7.

See section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling of the substance or mixture

Handling:	Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapour, liquid, and/or solid) all hazard precautions given in the data sheet must be observed. Provide suction extractors if dust is formed. Do not breathe dust.
Hygiene measures:	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water.

7.2. Conditions for safe storage, including incompatible products

Storage:	Protect container from light. Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place. Store in a cool, dry place at 75 degrees F or lower.
Packaging material:	No data available.

7.3. Specific end use

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Observe all workplace limits for dust.

No exposure limits established.

8.2. Exposure controls:

Personal protective equipment:



Respiratory protection:

3M Dust respirator No. 8710 or 9900 is recommended or a NIOSH/MSHA jointly approved dust respirator (See your safety equipment supplier)

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.



Protection of hands:

Wear resistant gloves.



Eye protection:

Tightly sealed safety goggles.

Protection against thermal hazards:

No data available.

Technical measures:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects)

Mastering the environmental exposure:

No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic, physical and chemical properties

Form:	Powder
Physical state:	Solid
Colour:	white or almost white
Odor:	Odourless
Melting point:	205 °C (with decomposition)
Boiling point:	No data available
Flash point:	No data available
Flammability:	product is not inflammable
Self-ignition temperature:	No data available
Explosion hazard:	No data available
Oxidising properties:	No data available
Vapour pressure:	No data available
Density:	0.8 g/cm ³ (at 20°C)
Solubility in water :	soluble in water (1: 4.5)
Solubility in other solvents:	slightly soluble in alcohol (1:90) and in acetone. Soluble in chloroform and insoluble in ether.
pH:	2.3 to 3.2 (5 % solution)
Molecular mass:	205.64 g/mol

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability: Stable

10.3. Possible dangerous reactions

Hazardous polymerization: Product will not undergo hazardous polymerization

10.4. Conditions to be avoided

Conditions to avoid: Avoid dust cloud formation.
Avoid contact with direct light.

10.5. Incompatible materials

Incompatible materials: Oxidants

10.6. Dangerous decomposition products

Dangerous decomposition products:
May form, hydrogen chloride, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: No risks known if properly used.

Pyridoxine hydrochloride	
LD50 / oral / rat :	4000 mg/kg
LD50 / oral / mouse :	5500 mg/kg

Irritation: Irritant for skin and mucous membranes.
On the eyes: strong irritant with the danger of severe eye injury.

Corrosivity: No data available.

Hypersensitivity: No data available.

Toxicity in repeated capture:

Prolonged or repeated skin contact may result in dermatitis. Inhalation of the dusts or powders may result in respiratory irritation. Ingestion may result in gastric disturbances.

Carcinogenicity:

There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Mutagenicity:

No data available.

Reproductive toxicity:

There is no data available for assessing risk to the foetus from maternal exposure to this material

Further information:

This material can form dust which may cause skin or mucous membrane irritation. Symptoms may include redness, burning, and swelling. Although they may cause respiratory tract irritation, nuisance dusts do not form scar tissue or affect the structure of air spaces in the lungs. Their effects on the tissues are potentially reversible

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects:

Water hazard class 1 (self-assessment): slightly hazardous for water.

Ingredient: Pyridoxine hydrochloride

Toxicity to fish OECD Guidines 203
Oncorhynchus mykiss/LC50 (96h) :>100 mg/L
The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates OECD Guidines 202, part 1
Daphnia magna/EC50 (48h) :>100 mg/L
The details of the toxic effect relate to the nominal concentration.

Aquatic plants OECD Guidines 201
Daphnia magna/EC50 (72h) : 5.3 mg/L
The details of the toxic effect relate to the nominal concentration.

Microorganisms / effect on activated sludge: OECD Guidines 209 aerobic.
Activated sludge Domestic/EC20 (30 min): > 1 000 mg/L
Assessment of aquatic toxicity: There is high probability that the product is not acutely harmful to aquatic organinics.
The inhibition of the degratdation activity of activated sludge is not anticipated when introduced biological treatment plants in appropriate low concentrations.

12.2. Persistence and degradability

Persistence and degradability: biodegradable.

12.3. Bioaccumulation

Bioaccumulation: No data available.

12.4. Mobility in the soil

Mobility: No data available.

12.5. Results of the PBT- and zPzB-assessment

PBT/vPvB: No data available.

12.6. Other adverse effects

Further information: No data available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste disposal methods

Waste from residues/unused products:

Disposal must be made according to official regulations.
Do not discharge into waterways or sewer systems.

Contaminated packaging: Disposal must be made according to official regulations.

Waste codes (2001/573/EC, 75/442/EEC, 91/689/EEC):

No data available.

14. TRANSPORT INFORMATION

14.1. Un number

UN-No.: None

14.2. Proper shipping name in accordance with the model regulations of the UN

Proper shipping name in accordance with the model regulations of the UN:
No data available

Proper shipping name in accordance with the model regulations of the UN IA TA/IMDG:

No data available

14.3. Transport hazard classification(s)

14.3.1. Land transport

Class: No hazardous good according to the regulation
Danger number (Kemler-no.): No data available
Classification code: No data available
ADR/RID-labels: None.

14.3.2. Transport on inland waters (ADN)

Class (ADN): No hazardous good according to the regulation

14.3.3. Transport on open sea

Class: No hazardous good according to the regulation

14.3.4. Air transport

Class: No hazardous good according to the regulation

14.4. Packaging group

Packaging group: None

14.5. Environmental hazards

Other information: Not classified as hazardous under transport regulations.

14.6. Special precautions for user

Keep separated from foodstuffs.

14.7. Carriage in bulk in accordance with Annex II by MARPOL 73/78 and the IBC-code

Code IBC: No data available.

15. REGULATORY INFORMATION

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

15.1.1. EU regulatory information

Authorizations/Restrictions for use: No data available.

This product contains an ingredient According to the candidate list of Annex XIV of the REACH regulation 1907/2006/EC: No data available.

15.1.2. National rules

No data available.

15.2. Chemical safety assessment

Chemical safety assessment: No data available.

16. OTHER INFORMATION

DSD / DPD

Labelling according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC

CLP

Classification and labelling according to the criteria of Regulation (EC) no. 1272/2008 and after evaluation of available test data

List of abbreviations and acronyms

DSD	Dangerous Substance Directive
DPD	Dangerous Preparation Directive
CLP (EU - GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
PBT	Persistent, Bioaccumulative and toxic chemical program
zPzB	very Persistent and very Bioaccumulative substances (irrespective of their toxicity)
VwVwS	Verwaltungsvorschrift Wassergefährdende Stoffe
LD50	Lethal Dose for 50% of subjects

ADR/RID	Accord européen relatif au transport international des marchandises Dangereuses par Route/Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN	Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures
IBC	International Bulk Code
REACH	Registration, Evaluation and Authorisation of CHemicals

All information and instructions in this SDS are based on the current state of scientific and technical knowledge at the date indicated on the current SDS. The information applies to the product as such. It is the responsibility of the person that receives this SDS that the information for appliance will be good read and will be understood by everyone, who comes in contact with it, who gets exposed to it or eliminates.