



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: MICROVIT B6 PROMIX PYRIDOXINE

Product code: ADI041.

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

Additive for animal feed.

1.3. Details of the supplier of the safety data sheet

Registered company name: Adisseo France S.A.S.

Address: Immeuble Antony Parc II - 10, Place du Général de Gaulle.92160.Antony.France.

Telephone: +33 (0)1 46 74 70 00. Fax: +33 (0)1 40 96 96 96.

Email: fds@adisseo.com

<http://www.adisseo.com>

1.4. Emergency telephone number

Association/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.

1.4.1. Other emergency numbers

CareChem (24h/24): +44 (0) 208 762 8322

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2.

Eye irritation, Category 2.

Specific target organ toxicity (single exposure), Category 3.

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Possibility of irritation to the eyes, by inhalation and skin.

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS07

Signal Word:

WARNING

Product identifiers:

EC 200-386-2

PYRIDOXINE HYDROCHLORIDE

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

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Precautionary statements - Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.

Precautionary statements - Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements - Disposal:

- P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:



Irritant

Risk phrase:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrase:

- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 22 Do not breathe dust.
 S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S 60 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

In use, may form flammable/explosive dust-air mixture.

Dusts can form an explosive mixture with air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances****Composition :**

Identification	Name	Classification	%
CAS: 58-56-0 EC: 200-386-2	PYRIDOXINE HYDROCHLORIDE	GHS07, Wng Xi H:315-319-335 R: 36/37/38	100.0000 %

3.2. Mixtures

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

Other data:

Pyridoxine, chlorhydrate content: minimum 98%.

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation:**

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital

care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

In the event of swallowing:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

In the event of a fire, immediate and rapid evacuation is necessary.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- powder

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)
- hydrogen chloride (HCl)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

Avoid any contact with the skin and eyes.

Avoid inhaling dust.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

N/A

Collect in suitable receptacles for disposal.

After cleaning, rinse traces with water.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Prevent the formation of dusts.

The preparation can become electrostatically charged: always earth during decanting operations.

Fire prevention:

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions

In all cases, recover emissions at source

Avoid skin and eye contact with this substance.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition.

Store away from light, in a cool, dry and well-ventilated area.

Store at a temperature below 25°C.

Stack at ambient temperature in the original receptacle.

Storage

Keep the container tightly closed in a dry, well-ventilated place

Packaging

Always keep in packaging made of an identical material to the original

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

In the event of high danger, protect the face with a face shield.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

Wear safety goggles.

- Hand protection

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

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Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties:

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing

Suitable type of protective clothing:

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask:

Wear a disposable half-mask dust filter in accordance with standard EN149.

Category:

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

- A1 (Brown)

Wear a half-mask.

8.2.3. Exposure controls linked to environmental protection

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:	solid
-	Crystal powder.
Colour:	White to cream.
Odour:	Mild.
Empirical formula :	C8H12ClNO3
Molecular weight:	205.64
Particle size :	max 0.5% (> 500 µm) - ~60% (< 200µm) - ~5% (< 50µm).

Important health, safety and environmental information:

PH of the substance or preparation:	not relevant.
The pH is impossible to measure or its value is not relevant.	
PH (aqueous solution):	2.4 - 3.0 (5%)
Vapour pressure:	not relevant.
Density:	< 1
Water solubility:	Soluble. 1:4.5
Melting point/melting range:	204 °C.
Solubility in organic solvents:	Insoluble in: Diethylene ether.
-	Soluble in: Alcohol (1:90), acetone, chloroform.

9.2. Other information

Density:	0.60 - 0.70 g/cm3 (loose packed) / 0.80 - 0.90 g/cm3 (packed).
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:

- formation of dusts
- exposure to light
- heat

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

Keep away from:

Strong oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)
- hydrogen chloride (HCl)

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

Acute toxicity:

CAS: 58-56-0

PYRIDOXINE HYDROCHLORIDE

Oral route:

2000 < DL50 <= 5000 mg/kg

DL50 = 4000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity****Substances**

No aquatic toxicity data available for the substances.

12.2. Persistence and degradability

Biodegradation: Intrinsically biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Product infiltrates easily into soils.

Product's target compartment: water

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK):

Nicht wassergefährdend (VwVwS vom 27/07/2005, KBws): Not hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

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Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- German regulations concerning the classification of hazards for water (WGK):**

Germany: Nicht wassergefährdend (VwVwS vom 27/07/2005, KBws)

15.2. Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

Registration number(s):

Registered in the EINECS inventory.

Registered in the TSCA inventory.

Registered in the Canadian inventory (CEPA DSL).

Title for H, EUH and R indications mentioned in section 3:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
R 36/37/38	Irritating to eyes, respiratory system and skin.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefährdungsklasse (Water Hazard Class).