

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product name: IPANEMA

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

Plant protection product.

Use descriptor system (REACH):

No data available.

1.3. Details of the supplier of the safety data sheet

Registered company name: Société Financière de Pontarlier

Address: "Villa Celony"- 1175 Montée d'Avignon -13090 Aix en Provence

(France) Telephone: +33.442.527.212 Facs. : +33.442.526.852

contact@phytorus.com

1.4. Emergency telephone number: +33.145.425.959

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

Other emergency numbers

In an emergency, call anti-poison center.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

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

Skin corrosion, Category 1B.

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

Hazardous to the aquatic environment - Acute hazard, Category 3.

Hazardous to the aquatic environment - Chronic hazard, Category 3.

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

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

Possibility of corrosive effects.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

2.2. Label elements

Phytopharmaceutical mixture.

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

Hazard pictograms:



GHS05

GHS07

Signal Word:

DANGER

Product identifier:

CHLOROETHYLPHOSPHONIC ACID (CAS No.16672-87-0)

Hazard statements:

- H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Additional labelling:

- EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements:

- P260 Do not breathe spray mist.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination *via* drains from farmyards and roads.
SPe3 To protect aquatic organisms, respect an unsprayed buffer zone of 5 meters to surface water bodies.

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

Hazard symbol:



C-Corrosive

Contains:

CHLOROETHYLPHOSPHONIC ACID (CAS No.16672-87-0)

Risk phrases:

- R 34 Causes burns.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

- S 23 Do not breathe spray mist.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination *via* drains from farmyards and roads.
SPe3 To protect aquatic organisms, respect an unsprayed buffer zone of 5 meters to surface water bodies.

Respect the instructions of use to avoid risks for man and environment.

Hazard symbol & Risk phrases of the approval :



Xi-Irritant



N-Dangerous for the environment

- R 38 Irritating to skin.
R 41 Risk of serious damage to eyes
R 52 / 53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.3. Other hazards

No data available.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfill the criteria set forth in Annex II section A of the REACh Regulation (EC) No.1907/2006.

3.2. Mixtures

Composition:

INDEX	CAS No.	EC No.	Name	Hazard symbol	Risk phrase / hazard statement	% m/m
015-154-00-4	16672-87-0	240-718-3	CHLOROETHYLPHOSPHONIC ACID	GHS05 GHS07 Danger Xn C	H314 H332-H312- H412 R20/21 R34 R52/53	≤ 40

Information on ingredients:

No data available.

Other data:

No data available.

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, 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.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin:

Remove any soiled or splashed clothing immediately.

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.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show 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

Specific and immediate treatment:

No data available.

Information for the doctor:

No data available.

SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

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 oxides (NO_x)
- hydrogen chloride (HCl)

5.3. Advice for firefighters

No data available.

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 inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilled, 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

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

Consult sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

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

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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

Avoid inhaling vapors.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

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

7.2. Conditions for safe storage, including any incompatibilities

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

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

Unsuitable packaging materials:

- Steel

Keep away from food, drink and animal feedingstuffs.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

No data available.

Biological limits:

No data available.

8.2. Exposure controls

Suitable technical inspections

Ensure that there is adequate ventilation, especially in confined areas. Avoid exposure to spray mist.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



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.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

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

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

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

- Hand protection

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

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

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.

Type of gloves recommended:

- PVA (Polyvinyl alcohol)

Recommended properties:

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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

Do not breathe spray mist.

If the ventilation is insufficient, wear appropriate breathing apparatus.

- Thermal risks

Not applicable.

Exposure controls linked to environmental protection

No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:	Liquid
Odour:	Odorless
Colour:	Amber

Important health, safety and environmental information:

pH value of the mixture in solution (10 g/L) :	< 2 (20°C)
Melting point/melting range:	Not applicable
Boiling point/boiling range:	> 100°C
Flash point:	Not determined (aqueous product)
Evaporation rate:	Not determined
Flammability:	Not applicable
Lower/upper flammability limits:	Not applicable
Lower/upper explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	1.21
Water solubility:	Fully miscible.
Partition coefficient n-octanol/water:	Not applicable
Auto-flammability:	Product is not self-igniting.
Decomposition point/decomposition range:	Not determined
Viscosity:	Not determined
Explosive properties:	None
Oxidising properties:	Not determined

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxides.

10.4. Conditions to avoid

Avoid:

- humidity

10.5. Incompatible materials

Keep away
from: - strong
acids - alkalis

10.6. Hazardous decomposition products

The thermal decomposition may release/form:
- carbon monoxide (CO)
- carbon dioxide (CO₂)
- hydrogen chloride (HCl)
- phosphine (PH₃)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

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

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

Acute toxicity:

No data available.

Skin corrosion/skin irritation:

Causes severe skin burns.

Serious damage to eyes/eye irritation:

Causes severe eye damage.

Respiratory or skin sensitisation:

Not sensitizing.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicant:

No data available.

Specific target organ systemic toxicity - single exposure:

May cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics

No data available.

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

No data available.

Interactive effects

No data available.

Absence of specific data

No data available.

Other information

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Substances

Chronic hazard, Category 3:

CHLOROETHYLPHOSPHONIC ACID (CAS No.16672-87-0): Harmful to aquatic life with long lasting effects.

Mixture

Harmful to aquatic life with long lasting effects. Do not pour into drains or waterways.

LC₅₀ (*Oncorhynchus mykiss*, 96h) > 100

mg/L EC₅₀ (daphnies, 48h) > 100 mg/L

EC₅₀ (*Scenedesmus subspicatus*, 72h) = 50 mg/L

12.2. Persistence and degradability

DT₅₀ water-sediment : 2.6 days

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Koc = 4600 L/kg

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

13.1. Waste treatment methods

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.

Local arrangements:

No data available.

SECTION 14: TRANSPORT INFORMATION

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 2011).

Classification:



UN3265 = CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(CHLOROETHYLPHOSPHONIC ACID)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C3	II	8	80	1 L	274	E2	2	E

IMDG	Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ
	8	-	II	1 L	F-A,S-B	274	E2

IATA	Class	2° Label	Pack gr.	Passager	Passager	Cargo	Cargo	Note	EQ
	8	-	II	851	1 L	855	30 L	A3	E2
	8	-	II	Y840	0.5 L	-		A3	E2

SECTION 15: REGULATORY INFORMATION

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

- Particular provisions:

No data available.

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.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. 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 mixture and not as a guarantee of the properties thereof.

Title for H and R indications mentioned in section 3:

- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 34 Causes burns.
- R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 Organization.

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