

Summary of product characteristics for a biocidal product

Product name: PHOSTOXIN

Product type(s): PT20 - Control of other vertebrates (Pest control)

Authorisation number: IE/BPA 70458

R4BP 3 asset reference number: IE-0020195-0000

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Administrative information

1.1. Trade names of the product

TALUNEX
Detia WM
Arvalin PHOS

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Detia Freyberg GmbH
	Address	Dr.-Werner-Freyberg-Str.11 69514 Laudenbach Germany
Authorisation number	IE/BPA 70458	
R4BP 3 asset reference number	IE-0020195-0000	
Date of the authorisation	06/03/2019	
Expiry date of the authorisation	22/05/2028	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Detia Freyberg GmbH
Address of the manufacturer	Dr.-Werner-Freyberg-Straße 11 69514 Laudenbach Germany
Location of manufacturing sites	Dr.-Werner-Freyberg-Straße 11 69514 Laudenbach Germany
	Dübener Strasse 147 04509 Delitzsch Germany

1.4. Manufacturer(s) of the active substance(s)

Active substance	4 - Aluminium phosphide releasing phosphine
Name of the manufacturer	Detia Freyberg GmbH
Address of the manufacturer	Dr.-Werner-Freyberg-Straße 11 69514 Laudenbach Germany
Location of manufacturing sites	Dr.-Werner-Freyberg-Straße 11 69514 Laudenbach Germany

Active substance	4 - Aluminium phosphide releasing phosphine
Name of the manufacturer	Jining Shengcheng Chemical Experimental Company, Ltd.
Address of the manufacturer	No. 59 West Jinyu Road 27200 Jining City China
Location of manufacturing sites	No. 59 West Jinyu Road 27200 Jining City China

Active substance	4 - Aluminium phosphide releasing phosphine
Name of the manufacturer	Longkou City Chemical Plant
Address of the manufacturer	Siping, Langao, Longkou City 265709 Shandong China
Location of manufacturing sites	Siping, Langao, Longkou City 265709 Shandong China

Active substance	4 - Aluminium phosphide releasing phosphine
Name of the manufacturer	Shenyang Harvest Agrochemical Co., Ltd
Address of the manufacturer	100 Jidong Road, Linsheng Town, Sujiatun District 110108 Shenyang China
Location of manufacturing sites	100 Jidong Road, Linsheng Town, Sujiatun District 110108 Shenyang China

Active substance	4 - Aluminium phosphide releasing phosphine
Name of the manufacturer	Sumitomo Chemicals India Limited
Address of the manufacturer	13/14, Aradhana Ind Development Corp, Near Virwani Ind Estate, Goregaon (E) 400063 Mumbai India
Location of manufacturing sites	Plot No. 205 to 209, Bhuj - Mundra Road, Near Kera Village 370 430 Gajod India

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Aluminium phosphide releasing phosphine	aluminium phosphide	Active Substance	20859-73-8	244-088-0	68
Ammonium carbamate	Ammonium carbamate	Non-active substance	1111-78-0	214-185-2	21

2.2. Type of formulation

GE - Gas generating product

3. Hazard and precautionary statements

Hazard statements

In contact with water releases flammable gases which may ignite spontaneously.

Fatal if swallowed.

Fatal in contact with skin.

Causes serious eye damage.

Fatal if inhaled.

Very toxic to aquatic life.

Contact with water liberates toxic gas.

Contact with acids liberates very toxic gas.

Toxic by eye contact.

To avoid risks to human health and the environment, comply with the instructions for

use.

Precautionary statements

Keep out of reach of children.

Do not allow contact with water.

Protect from moisture.

Keep only in original packaging.

Do not breathe gas.

Avoid release to the environment.

Wear protective gloves.

Wear protective clothing.

Wear eye protection.

Wear face protection.

IF SWALLOWED:Immediately call a POISON CENTER.

IF SWALLOWED:Immediately call a doctor.

IF INHALED:Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER if you feel unwell.

Call a doctor if you feel unwell.

Brush off loose particles from skin.

In case of fire:Use Use dry sand or powder then use CO2 for extinction to extinguish.

Store in a dry place.Store in a closed container.

Store in a well-ventilated place.

Store locked up.

Dispose of contents to to a licensed hazardous-waste disposal contractor or collection site.

Dispose of container to to a licensed hazardous-waste disposal contractor or collection site.

4. Authorised use(s)

4.1 Use description

Use 1 - Trained Professional

Product type

PT20 - Control of other vertebrates (Pest control)

Where relevant, an exact description of the authorised use

Control of other vertebrates .

Target organism(s) (including development stage)

Scientific name: *Talpa europaea*
Common name: Mole
Development stage: Juveniles, Adults

Scientific name: *Oryctolagus cuniculus*
Common name: Rabbit
Development stage: Juveniles, Adults

Field(s) of use

Outdoor

IV.2 Outdoor

The product is used for the outdoor control of rabbits and moles for all types of non-agricultural areas where burrows and mole hills may cause damage e. g. railway (embankments, tracks, gravel edges, border routes), dams and flood dikes , sport venues (golf course), gardens and parks, port traffic areas, airfields and other kinds of technical areas. Outdoor use (application into clearly locatable burrow systems that are separated from burrow systems of other vertebrates and building structures)

Application method(s)

Method: Fumigation

Detailed description:

The required amount is applied using the relevant tablet/pellet applicator.

Application rate(s) and frequencies

Application Rate: Moles: 1 tablet or 5 Pellets every 3-5 m burrow length in light soil, or every 8-10 m in all other soil types. Rabbit: 1 tablet or 5 Pellets per hole.

Dilution (%): 100

Number and timing of application:

The product should be used when burrows/holes appear. It must not be used within 10 metres of human habitation. Use should be avoided where there is evidence of non-target animal activity (badger, fox reptiles, etc.).

Minimum time for effective treatment is 21-days.

Category(ies) of users

Trained professional

Pack sizes and packaging material

3g tablets or 0.6g pellets in 90g and 100g sealed gastight aluminium bottle with plastic screw lid.

90g Bottle (150 pellets / 30 tablets).

100g Bottle (166 pellets / 33 tablets).

The sealed aluminium bottle must be compatible for use with the relevant pellet/tablet applicator.

4.1.1 Use-specific instructions for use

Only to be used for non-agricultural purposes.

Size of danger area: Open areas treated with phosphine (hydrogen phosphide) are a "fumigated object". The head of fumigation has to set up a danger area for safety of the general public as well as farm and domestic animals. The safety area shall not undercut a size of 10 m around the treated area.

As a precautionary measure, a safety distance of at least 25 m to vicinal areas must be respected.

The concentration of phosphine outside this zone has to be below 0.01 ppm. Re-entry for other persons than the operator should only be allowed if the clearance is granted and the concentration of phosphine is below 0.01 ppm (corresponding to 0.014 mg/m³).

The pest controller (or a person with expert knowledge about chemical analysis of the used fumigant) has to check regularly in accordance with the relevant fumigation national rules before signing off in the ambient air outside the danger area, the concentration of the fumigant is beyond the limit value. The measurement results and, if necessary, the safety measures taken must be recorded in writing and stored with documentation of the fumigation.

Inhabitants and/or authorised users of premises directly adjacent or in a distance of up to 25 m to the fumigated area shall be informed adequately at least one week before fumigation in writing about the risk posed by the biocidal product. The information includes at least:

- a) the name of the fumigant,
- b) the authorisation number,
- c) the name of the active substance,
- d) information about the means of exposure (inhalation),
- e) the limited sensory perception of phosphine through impurities (carbide- or garlic-like, foul-smelling fish),
- f) the request to leave immediately the area after olfactory perception (the smell is often only perceptible above health-based limits),
- g) description of disease symptoms of intoxication after inhalation,
- h) description of recommended first-aid measures,
- i) further sources of information (manufacturer of the biocidal product, name and telephone numbers of the user, competent poison control centre).

If the danger area is accessible for the general public, farm and/or domestic animals, it has to be secured before beginning of fumigation and for two consecutive days, at least:

- a) by an appropriate cordon (e.g. red-white barrier tape),
- b) a warning sign: acute toxicity symbol (skull and crossbones) with the following features:
 - i) "Danger because of soil fumigation. Very toxic gases! Danger to life! No trespassing!"
 - ii) the name of the biocidal product as well as the date and time of the fumigation, the address of the responsible person as well as adequate emergency telephone numbers.

The product must be applied to all burrow entrances in order to prevent target animals from escaping via untreated burrows.

If use of this product does not result in complete control of large target pest infestations, further treatment with other control methods may be required to fully control the population.

Ineffective sealing of treated burrows, usage of the product in very dry soil and at very low temperature (frost) and other inaccurate applications may reduce the effectiveness of the treatment.

Safely close the hole in which pellets/tablets are applied by a plug.

4.1.2 Use-specific risk mitigation measures

For outdoor use only.

May not be used in rain or dense fog.

WEAR SUITABLE protective clothing (coveralls), suitable protective gloves, and suitable respiratory protective equipment* when applying the product.

* Half-mask to at least EN 140 with a gas filter to at least EN14387 B1, or equivalent.'

Eye protection (safety goggles or a face shield) shall be indicated to prevent from local effects of eye irritation because of the additive ammonium carbamate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

In case of incidental contact to the biocidal product, protective gloves shall be recommended for precautionary reasons (e.g. clearing soil from the outlet of the delivery tube).

Avoid any unnecessary contact with the product. Misuse may cause adverse effects on health.

Use only with the applicator supplied for use with the tablets/pellets of this biocidal product. If an applicator is used, it shall be cleaned after use. The cleaning shall be performed outdoors, preferably in light winds (observe the wind direction), and with careful avoidance of exposure of humans and animals to product dusts and/or phosphine.

Cleaning of applicator - Once the flasks have had any remaining dust residue tapped from them and whilst still wearing full PPE, including full face respirator with a minimum B2 P3 filter, repeat this initial cleaning process with the empty applicator whilst operating the trigger mechanism for a number of times to remove any dust or particles that may still be present. Ensure you then transport the applicator together with the empty flasks in a sealed container (300 gauge plastic bag would suffice), in an unoccupied compartment on the vehicle well away from the driver's cab, to a suitable place where all of these items can be safely vented and aired (whilst again wearing PPE/RPE) until no further phosphine is liberated. Do not allow the applicator or the flasks to become wet at any time. This product must not be used within 10 metres of human or non-target animal habitation.

It has to be ensured that treated burrows do not meet cellars or other parts of housings.

Safely close the hole in which pellets are applied with a plug.

The treated area has to be inspected at appropriate intervals to ensure that all burrows have remained blocked and not re-opened by any target-organisms.

Use all contents of the flask in one operation.

Empty flasks can be re-sealed only for transport to waste storage area.

To avoid risks to man and the environment, comply with the instructions for use.

Areas where other burrowing animals can be expected must not be treated.

Avoid uncontrolled release to the environment.

Do not contaminate water with product or its container.

This product must not be used in burrows within 10 m of surface waters or ditches.

This product must not be used in wet weather.

This product must not be placed or allowed to remain on the ground surface.

Before application, ensure there is no connection between the burrow system and sewers.

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

WARNING: All patients with exposures should be sent to a healthcare facility for at least a period of 24 hours of observation after inhalation or ingestion.

Contact with moisture or moist air, if swallowed the contact with an organism's stomach acid produces PHOSPHINE
Aluminum Phosphide releases phosphine gas into stomach and in cause of spontaneous vomiting the gas release can contaminate confined areas like rooms and ambulances.

Poisoning may cause:

- Burning of the eyes, skin, mucous membranes, respiratory and gastrointestinal tract.
- Nausea, vomiting, diarrhea and severe abdominal pain.
- Headache, cough, tightness and pain in the chest, shortness of breath, dizziness, lethargy and stupor.
- Fatigue, muscle pain, chills, tremors, incoordination, seizures, and coma.
- Pulmonary edema and cardiac arrhythmias. Liver, kidney and adrenal cortex damage.
- Multiorgan failure which may cause death

Basic first aid procedures

- Move the person away from the contaminated area to fresh air as soon as possible and remove contaminated or splatter clothing.
- If contact in eyes, remove powdery residues using a lint-free cloth. Rinse with plenty of water only when no more powdery residues are visible. Do NOT forget to remove the contact lenses.
- If contact on skin, remove powdery residues by brushing. Rinse with plenty of water only when no more powdery residues are visible.
- If swallowed, do NOT induce vomiting unless told to do so by poison control or a health care professional. Call immediately to a poison control centre and if necessary take the person to a hospital in a well ventilated car and show the label or packaging whenever possible.
- Keep the patient at rest and maintain the body temperature.
- If the person is unconscious, turn the patient sideways with the head at lower than the rest of the body and the knees bended.
- If breathing stops or shows signs of failing administer artificial respiration using oxygen and a suitable mechanical device such as a bag and mask. Do not use mouth-to-mouth resuscitation.
- If necessary take the person to a hospital and show the label or packaging whenever possible.

DO NOT LEAVE THE POISONED PERSON ALONE UNDER ANY CIRCUMSTANCE

Medical advice for doctors and sanitary staff

- There is no specific antidote.
- Rapid and complete decontamination digestive tract (don't use water). It is possible to administer activated charcoal.
- It is necessary control ECG, blood pressure, electrolytes, renal function, and liver enzymes.
- Symptomatic and supportive treatment.

IF MEDICAL ADVICE IS NEEDED, HAVE THE PRODUCT CONTAINER OR LABEL AT HAND AND CONTACT THE POISON CONTROL CENTRE.

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

For active substances, biocidal product and residues, waste code 061301 according to Guideline 2001/118/EC is applied. It is recommended that only degassed material should be disposed of under observation of the prevailing regulations (waste code 060316 according to Guideline 2001/118/EC). The product and/or its container must be disposed of to a licensed hazardous-waste disposal contractor or collection site.

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Keep cool.
Protect from moisture.
Store in a dry place.
Store in a closed container.
Store in a well-ventilated place.
Place away from water or moisture.
Keep only in the original container.
Do not store or reseal part-used flasks.
Store locked up.
Shelf-life: 5 years.

5. General directions for use

5.1. Instructions for use

See authorized uses.

5.2. Risk mitigation measures

See authorized uses.

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

See authorized uses.

5.4. Instructions for safe disposal of the product and its packaging

See authorized uses.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

See authorized uses.

6. Other information

Where the use is restricted to application by the help of an applicator (according to Dir. 2009/95/EC). The Authorisation Holder has to specify the type of applicator. At least one adequate applicator shall be indicated (manufacturer, product name).

The Authorisation Holder has to specify material, thickness, and level of protection of gloves protecting from hazardous substances of the biocidal product. At least one adequate glove product shall be indicated, for which the Authorisation Holder has written, corresponding confirmation of adequacy concerning the biocidal product of the supplier.