

# Talunex<sup>®</sup>

**MAPP 13798/PCS 91379**

A pellet formulation containing 57% w/w (570g/kg) aluminium phosphide for the control of rabbits, moles and rats outdoors by qualified persons using the Topex<sup>®</sup> applicator or other equivalent equipment.

**Rabbit, mole and rat killer**

**CERTIS**

## **DIRECTIONS FOR USE**

**IMPORTANT:** This information is approved as part of the Product Label. All instructions in this section must be read carefully in order to obtain safe and successful use of this product.

## **RESTRICTIONS/WARNINGS**

Sale and supply of aluminium phosphide is governed by the Poisons Rules 1982\* made under the Poisons Act 1972. It is scheduled as a Part 1 poison.

\*Available from The Stationery Office.

## **USE ALL CONTENTS OF FLASK. DO NOT RE-SEAL.**

**WARNING:** Spontaneous combustion can arise due to sudden release of phosphine gas if a flask having been opened once is then re-opened.

Open the pack out of doors/in a well ventilated place

Work sideways on to the wind.

DO NOT spill pellets on the ground.

DO NOT use in rain or heavy mist.

DO NOT use when the ground is very dry or waterlogged.

Take the empty container off the Topex Applicator. Tap the applicator to clear any dust. Repack and transport in the original Topex Container.

NEVER clean the applicator with water.

## **PESTS CONTROLLED**

Talunex may be used only against rabbits, moles and rats in woodland, on grassland, on arable and horticultural land (in the open air), on sports fields and on lawns. Application must not be made adjacent to watercourses. Talunex must not be used within 3 metres of human or animal habitation.

### **Mode of action**

Talunex reacts with moisture in the soil and air to release the toxic gas, phosphine. The gas is fatal to rabbits, moles and rats.

### **Method**

Talunex is inserted into rabbit burrows, mole tunnels and rat holes by means of the Topex Applicator or other equivalent equipment.

### **Loading the Topex® applicator**

Work in the open air, sideways to the wind. With gloved hands, carefully unscrew the closure from the Talunex container. Invert the Topex Applicator and screw the full container of Talunex into the orifice at the end of the handle. The applicator is now loaded ready for use.

## **PEST SPECIFIC INFORMATION**

### **Moles**

A plot of land where moles are present should ideally be treated in its entirety as a single unit.

## LOCATING ACTIVE SITES

Places where moles are active can be located by harrowing or rolling the old molehills and tunnels about a week before treatment. Short vegetation makes this operation easier and helps to produce good results. Pay extra attention to the boundaries of the site because areas in or near hedges, fences, banks or ditches or verges are favourite places for nests.

Concentrate the treatment on the molehills and deeper tunnels at approximately 25cm depth. Do not treat tunnels less than 10cm below the surface.

## TREATMENT

1. Using the metal probe, pierce a small hole into the mole run or molehill.
2. With the loaded Topex Applicator insert two to five pellets into the tunnel or molehill
3. After the pellets have been deposited in the hole, seal the hole with earth or turf, vegetation side down, immediately after treatment.
4. Treat at a number of points where moles are active, approximately one per 4 sq. metres.
5. If fresh mole activity is noticed after a few days repeat the treatment until no further activity is visible.

**NOTE:** A clear access hole to the pellets placement point must be made before inserting the delivery tube of the Topex Applicator. Holes must *not* be pierced with the delivery tube of the Topex Applicator.

## Rabbits

The most effective time for treatment for control of rabbits is from November to March, when the rabbit population is at its lowest and the burrows are most accessible. Before treatment ensure that rabbits lying out in the surrounding area are driven to ground.

## TREATMENT

1. With the loaded Topex Applicator insert five pellets (four pellets may be used in smaller burrows or when applying to heavier, moist soils ) as far into each hole as practicable, usually 30cm is adequate.
2. As soon as the pellets have been deposited in the hole, seal the hole with turf, grass side down taking care not to cover pellets with soil.
3. Ensure all burrow entrances are treated and sealed.
4. If fresh rabbit activity is noticed after a few days, repeat the treatment until no further activity is visible.

## Rats

Talunex may be used for the control of rats in agricultural situations. Do not use inside buildings. Do not apply within 3 metres of human or animal habitation.

## TREATMENT

1. With the loaded Topex Applicator insert one to two pellets of Talunex as far as possible into each rat hole. (The lower dose may be used in smaller burrows or when applying to heavier, moist soils).
2. Seal the hole with earth or turf, grass side down, immediately after treatment.

3. If there are fresh signs of rat activity after a few days repeat the treatment until there is no further activity.

## **SPILLAGES**

In the event of spillage or accidental trigger release, do not attempt to recover the pellets for re-loading. Bury spilled pellets immediately with at least 15cm soil cover.

## **SYMPTOMS OF POISONING FOLLOWING INHALATION**

These may include nausea, vomiting, headache, weakness, faintness, pain in the chest, cough, chest tightness and difficulty in breathing.

## **FIRST AID**

If any of the above symptoms occur or if poisoning is suspected: STOP WORK. Remove patient into fresh air. Prevent all exertion. Keep patient warm. Call doctor AT ONCE and show him this label. 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.**

## **GUIDE TO DOCTOR**

No specific antidote is known. Treatment for suspected poisoning should be symptomatic and supportive care. Further advice from nearest National Poisons Information Centre.

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK - UK only

## **SAFETY PRECAUTIONS**

### **Operator protection**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment;

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\* when opening container, handling and placing the pellets.

\*(i.e. full face respirator with appropriate gas filter cartridge (which also meets P3 standard for particulates) or RPE offering equivalent protection)

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

TO BE USED ONLY BY AN OPERATOR INSTRUCTED OR TRAINED IN THE USE OF ALUMINIUM PHOSPHIDE and familiar with the precautionary measures to be observed. See HSE Guidance Note CS22: Fumigation

DO NOT USE IN WET WEATHER

This product must only be applied via the Topex applicator or other equivalent equipment

CONTACT WITH WATER LIBERATES VERY TOXIC EXTREMELY FLAMMABLE GAS, WHICH IS IRRITATING TO THE EYES AND RESPIRATORY SYSTEM

EXTINGUISH ALL NAKED FLAMES

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work

OPEN CONTAINER IN A WELL VENTILATED PLACE

AVOID ALL CONTACT BY MOUTH

## **Environmental protection**

DO NOT TREAT BURROWS LESS THAN 3 METRES (10 FEET) FROM ANY BUILDING OCCUPIED BY MAN OR ANIMALS.

Badgers are protected animals: Setts must not be gassed. Aluminium phosphide must not be used if there are active badger setts/fox earths in the treatment area.

Care must be taken to avoid gassing non-target animals. Badger and polecat are protected under the Wildlife and Countryside Act 1981 and may use rabbit burrows. Avoid using Talunex in burrows or warren systems where there is evidence of current badger or fox activity or where such systems may be connected to an active set or earth. Reptiles and the natterjack toad are also protected under the Wildlife and Countryside Act 1981; if these are likely to be present in the burrows, consult English Nature, Scottish Natural Heritage or the Countryside Commission for Wales, as appropriate, before using Talunex. Most bird species are protected under the Wildlife and Countryside Act 1981. Do not use Talunex in areas and at times of year when adult or juvenile puffins, shearwaters or petrels are occupying burrows; do not use in burrows that may be occupied by other hole-nesting birds such as wheat-ears or shelduck.

DO NOT USE ADJACENT TO WATER COURSES

SEARCH FOR RODENT BODIES AND DISPOSE OF SAFELY (e.g. bury). Do not dispose of in refuse sacks or on open rubbish tips

TABLETS SHOULD NEVER BE PLACED OR ALLOWED TO REMAIN on the ground surface

DO NOT CONTAMINATE SURFACE WATER OR DITCHES with chemical or used container

## **Storage and disposal**

EMPTY CONTAINER COMPLETELY and dispose of safely in accordance with guidelines given in 'The Code of Practice for Using Plant Protection Products'.

KEEP IN ORIGINAL CONTAINER, tightly closed under lock and key in a cool, well ventilated place away from dwellings.

DO NOT RE-USE CONTAINER for any purpose.

This product is approved under the Control of Pesticides Regulations 1986

### **IMPORTANT INFORMATION**

**FOR USE ONLY IN RAT, RABBIT AND MOLE CONTROL BY PERSONS INSTRUCTED OR TRAINED IN THE USE OF ALUMINIUM PHOSPHIDE**

**Crops/situations:** All situations - outdoor use ONLY

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

## Risk and Safety information

**Talunex** – A pellet formulation containing 57% w/w (570 g/kg) aluminium phosphide



**DANGEROUS FOR THE ENVIRONMENT**



**HIGHLY FLAMMABLE**



**VERY TOXIC**

**VERY TOXIC IF SWALLOWED AND BY INHALATION**

**HARMFUL IN CONTACT WITH SKIN**

**CONTACT WITH WATER LIBERATES TOXIC, EXTREMELY FLAMMABLE GAS**

**CONTACT WITH ACID LIBERATES VERY TOXIC GAS**

**VERY TOXIC TO AQUATIC ORGANISMS**

When using do not eat, drink or smoke

Avoid all contact with skin and eyes

Do not breathe gas

Never add water to this product

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Keep away from food, drink and animal feeding stuffs

Keep locked up and out of the reach of children

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

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This label is compliant with the CPA Voluntary Initiative Guidance (UK only)



## Section 6 of the Health and Safety at Work Act

### Additional Product Safety Information

**(This section does not form part of the product label under the Control of Pesticide Regulations 1986).**

**The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has “off-label” approval or is otherwise permitted under the Control of Pesticides Regulations.**

**The information on this label is based on the best available information including data from test results.**

### Safety Data Sheet

#### 1. Identification of the product and the company

Name: TALUNEX  
Chemical description of active ingredient(s): Aluminium phosphide  
Identification of the Product: Solid.  
GCPF code: TB (Tablet)  
Company identification: Certis UK  
1b Mill Way, Boscombe Down Business Park, Amesbury,  
Wiltshire SP4 7RX  
Tel: 0044 (0) 1980 676500. Fax: 0044 (0) 1980 626555  
Email: certis@certiseurope.co.uk. Web: www.certiseurope.co.uk  
Rodenticide  
Use:  
Emergency Contacts: For advice on medical emergencies, fires, spillages or chemical hazards ONLY – phone 0044 (0) 870 190 6777.

For further advice for medical professionals - The National Poisons Information Service: Tel: 0044 (0) 870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966.

For further advice for veterinary surgeons:  
0044 (0) 20 7635 9195

#### 2. Information on ingredients

Substance/preparation: Preparation.  
This product is considered to be hazardous and contains hazardous components.  
Other information: See chapter 16 for full text of R phrases  
Composition: The classified components in the formulation as well as the active ingredient are listed below.

Substance name	Value(s)	CASnr/EINECS nr/ EC index	Symbol(s)	R-Phrase(s)
Aluminium phosphide	57%	020859-73-8/244-088-0/015-004-00-8	F T+ N	15/29-28-32-50
Rat oral LD50 (mg/kg):	8.7			
OEL (mg/m3):	2 (=MAC:F)			
LC50-96H Rainbow trout (mg/l):	0.0097			

### 3. Hazards identification

Physical/chemical hazards:

Contact with water liberates highly flammable gases.

Human health hazards :

Very toxic if swallowed. Contact with water liberates very toxic gas.

Contact with acids liberates very toxic gas. Repeated exposure may cause liver, kidney and lungs damage.

Environmental hazard:

Very toxic to aquatic organisms

### 4. First aid measures

#### Effects and symptoms

General:

Reacts with water. Liberates very toxic gas. Exposure results in

acute health complaints.

Inhalation:

Inhalation results in absorption into the body. Exposure to small amounts may result in acute health complaints.

Dizziness. Tightness of the chest. Nausea. Abdominal disorders.

Ingestion:

Ingestion results in absorption into the blood. Exposure to small amounts may result in acute health complaints.

Tightness of the chest. Stomach ache. Diarrhoea. Cramps. Unconsciousness.

Skin contact:

Skin contact results in absorption into body and may result in health complaints. Exposure to small amounts may result in acute health complaints. Redness. Burning sensation.

Eye contact:

Eye contact may result in impaired vision, tears, redness and conjunctivitis. Prolonged or repeated eye exposure may cause

irreversible damage to eyes.

#### First aid measures

General information:

In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).

- Inhalation:

Remove victim to fresh air. Allow the victim to rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately get medical attention.

- Ingestion:

Wash out mouth with plenty of water. Allow the victim to rest. Give water to drink. Induce vomiting. **Never** give anything by mouth to an unconscious person. Immediately get medical attention.

- Skin contact:

Remove contaminated clothing and shoes. **Do not** use water for cleaning. Immediately get medical attention.

- Eye contact:

Remove contact lenses if present. Rinse immediately with plenty of water. With the eyelid wide open for at least 15 minutes. Immediately get medical attention.

Protection of first aiders:  
and

Avoid exposure. Wear suitable protective clothing, gloves eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

### 5. Fire fighting measures

Extinguishing media:

Dry chemical. Sand.

**Not usable extinguishing media:**

**DO not use extinguishing media containing water.**

Special procedures:	Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting sand or dry chemical to enter environment.
Hazardous thermal (de) composition products:	Burning may produce very toxic vapours/gases. See also Heading 10 (Stability and Reactivity).
Protection of fire-fighters:	Self contained breathing apparatus with full face-shield. Wear suitable protective clothing. Fight fire from safe distance and protected location.
Unusual fire/explosion hazards:	Contact with water liberates highly flammable gases.

## 6. Accidental release measures

Personal precautions:	In the event of a major spillage evacuate room immediately. Contact an expert immediately. Provide adequate ventilation. Wear suitable protection. Self-contained breathing apparatus with full face shield. Keep away from sources of ignition.
Environmental precautions:	Prevent dispersion. Collect spilled material. Prevent entry to sewers and public waters. Make provisions to collect extinguishing water after fires. In the event of major spillage contact an expert immediately. Notify authorities if water enters sewers or public waters.
Methods for clearing up :	Prevent dispersion. Clean up the remainder carefully. <b>Do not</b> use water for cleaning. Remove as chemical waste, according to national or local legislation.

## 7. Handling and storage

<b>General:</b>	<b>Read label before use.</b>
Handling:	When using <b>do not</b> eat, drink or smoke. Wear suitable protective clothing, gloves and eye/face protection. Keep away from water. Keep away from sources of ignition. Keep away from open flame and sparks.
Storage:	Store in a frost-free, dry cool, well-ventilated area. Keep in fireproof place according to national or local legislation. <b>Do not</b> store together with other products. Keep away from water and acids. Keep away from ambient humidity. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs.
Packaging material:	Use original packaging.

## 8. Exposure controls/personal protection

Engineering measures:	Provide adequate ventilation. Use in closed systems.
Hygiene measures:	When using, <b>do not</b> eat drink or smoke. Wash hands and other exposed areas with soap and water before leaving work. Shower after work. Wear clean working clothes every day.
Occupational exposure limits:	See Heading 2 (Information on ingredients).
<b>Personal protection</b>	
- Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
- Skin protection:	Wear suitable protective clothing.
- Hand protection:	Use neoprene gloves.

- Eye protection: in the event of possible exposure: combined eye and respiratory protection.
- Ingestion: When using, **do not** eat, drink or smoke.

## 9. Physical and chemical properties

Physical state:	Tablets.
Colour:	Grey.
Odour:	Garlic.
pH value:	Not applicable.
Solubility in water:	Reacts violently with water (decomposition).
Relative vapour density:	Not applicable.
Self-ignition (°C):	This product contains ignition-inhibiting additives.
Physical properties:	Decompose on contact with moist air or water. Phosphine will be formed.
Flash point (°C):	Not applicable.
Log P octanol/water at 20 °C:	Not applicable.

## 10. Stability and reactivity

Stability:	Stable under normal conditions.
Hazardous decomposition products:	Burning may produce e.g: Phosphine. Phosphoric acid. Phosphorus oxides.
Hazardous reactions:	Reacts violently with water liberating highly flammable gases. Subsequent fire/explosions hazard.
Materials to avoid:	Water. Acids.
Other information:	Handle carefully. Uncontrolled development of hydrogen phosphide can cause fires.
Conditions to avoid:	Open flame. Sparks.
Hazardous polymerisation:	Will not occur.

## 11. Toxicological information

On product:	Very toxic if swallowed.
Rat inhalation LC50 (mg/l/4h):	Phosphine : 0.015
OEL mg/m <sup>3</sup>	Phosphine : 0.15
Other toxicological information:	Contact with water liberates toxic gas phosphine.
On ingredients:	See heading 2 (Information on ingredients).

## 12. Ecological information

On product:	Very toxic to aquatic organisms
Ecological effects information:	Phosphine decomposes in the atmosphere within 5-28 hrs.
LC50-96H- Rainbow trout mg/l:	Phosphine 0.0097
EC50-24H Daphnia magna mg/l:	Phosphine 0.2
On ingredients:	See Heading 2 ( Information on ingredients).

## 13. Disposal considerations

Waste disposal procedures:	Prevent dispersion. Remove waste product to a suitable incinerator according to local or national legislation.
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Waste of residues:

Fire hazard. Keep waste separate. Remove as chemical waste, according to national or local legislation.

Contaminated packaging:

Keep waste packaging separate. Remove as chemical waste according to local or national legislation. Packaging must not be reused

## 14. Transport information

- UN Number:

1397

- Shipping name:

Aluminium phosphide

### Land transport (ADR/RID)

- Class:

4.3 (6.1)

- Packing group:

I

- Hazard identification number:

-

- Tremcard Nr:

43GWT2-I

- Special provision 640:

-

- Hazard label(s):



### Sea transport (IMO)

- IMDG code:

4.3

- Packing group:

I

- EMS-Nr:

F-G, S-N

## 15. Regulatory information

### EU Regulations

#### EU Classification (67/548/EEC-88/379/EEC)

Hazard symbol(s):

T+ Very toxic, F Highly flammable, N Dangerous for the environment.

### Warning phrases

R phrase(s):

R15/29 - Contact with water liberates toxic, extremely flammable gases.

R28 - Very toxic if swallowed.

R32 - Contact with acids liberates very toxic gas.

R50 - Very toxic to aquatic organisms

### Safety phrases

S Phrase(s):

S01/02 - Keep locked up and out of reach of children.

S07/08 - Keep container tightly closed and dry.

S09 - Keep container in a well-ventilated place.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using, **do not** eat, drink or smoke.

S23 - **Do not** breathe gas/fumes/vapour/spray.

S24/25 - Avoid contact with skin and eyes.

S30 - **Never** add water to this product.

S35 This material and its container must be disposed of in a safe way.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Symbol(s):



Additional information:

Packaging must not be reused.

## 16. Other information

Certis UK Code:

UK - 0019-0249

Explanation of R-phrases used; in this document

R15/29 - Contact with water liberates toxic, extremely flammable gases

R28 - Very toxic if swallowed

R32 - Contact with acids liberates very toxic gas.

R50 - Very toxic to aquatic organisms.

Sources of key data used:-

The Pesticides Manual, 12th Edition (ISBN 1 901396 12 6)

- Files Certis Europe BV

- Classification Database ECB

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Marketed by:



1b Mills Way, Boscombe Down Business Park,  
Amesbury, Wiltshire SP4 7RX

Tel: 0044 (0)1980 676500 Fax: 0044 (0)1980 626555

E-mail: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)

**For technical and non-emergency calls – phone 0044 (0)1980 676501**

**For advice on medical emergencies, fires, spillages or chemical hazards ONLY – phone 0044 (0)870 190 6777**

Authorisation/Approval Holder: Detia Degesch GmbH, Dr-Werner-Freyberg-Str. 11, 69514 Laudenbach, Germany

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ALWAYS READ THE LABEL

USE PESTICIDES SAFELY