

Directions for use:  
For use only as a fumigant insecticide in unprocessed agricultural produce and stores.

Crop/Situation:	Max. single dose:	Max. no. of applications	Withholding period
Stored cereal grain, pulses, oilseeds, tea, coffee, cocoa, carob, dried spices & tobacco	10 tablets / m <sup>3</sup>	1 per season	7 days
Tree nuts	10 tablets / m <sup>3</sup>	1 per season	21 days
Pistachio nuts	10 tablets / m <sup>3</sup>	1 per season	35 days
Crop handling and storage structure	10 tablets / m <sup>3</sup>	1 per season	-

**Method of application:**  
When fumigating silos bins it is recommended to use the automatic tablet dispenser.  
Do not use in bulk food/feed where the tablet will be in direct contact with the commodity.

**Risk mitigation measures:**  
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.

Do not use in bulk food/feed where the tablet will be in direct contact with the commodity.

Wear suitable protective clothing (coveralls), suitable protective gloves and suitable respiratory protective equipment when applying the product and re-entering treated areas before the phosphine gas air concentration is below 0.01ppm.  
Use at least half mask or full-face-piece respirators to at least EN140 and EN136 standard respectively, in combination with filter(s) to at least EN14387 B2P3, or equivalent.

Do not allow tablets or their spent residues to come in contact with food or feed.

Place warning notices at the fumigation area and all points of access to the risk area. A 5M risk area must be established around the treated area/buildings.

Directions for the safe disposal of the plant protection product and of the packaging:  
Dispose of contents/container to a licensed hazardous waste disposal contractor

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.

**Safety information:**  
Operator protection:  
Engineering control of operator exposure must be used where reasonable practicable in addition to the following personal protective equipment:  
Unprotected persons must be kept out of treated areas until the phosphine concentration in the atmosphere has fallen below the TLV of 0.01 ppm.

# Phostoxin®

## PHOSTOXIN TABLET FOR PROFESSIONAL USE ONLY.

A gas-generating preparation containing  
Aluminum Phosphide 56% w/w for the control  
of insects which infest stored commodities  
and tobacco.

Gas Generating Product (GE)  
Active Ingredients: Aluminium Phosphide 56% w/w  
CAS No. 20859-73-8

Contents: **334 x 3 g** spheric tablets  
Net weight: 1,000 g

IN CONTACT WITH WATER LIBERATES VERY TOXIC, HIGHLY FLAMMABLE GAS WHICH IS IRRITATING TO THE EYES AND RESPIRATORY SYSTEM. OPEN CONTAINER IN A WELL VENTILATED SPACE. WHEN USING DO NOT EAT, DRINK OR SMOKE. AVOID ALL CONTACT BY MOUTH SKIN AND EYES. After contact with skin first remove product with a dry cloth and then wash skin with plenty of water. EXTINGUISH ALL NAKED FLAMES INCLUDING PILOT LIGHT WHEN FUMIGATING. WASH HANDS AND EXPOSED SKIN before meals and after use.  
Environmental protection:  
Do not contaminate water with the product or its container. Prevent access by livestock, pets and other non-target mammals and birds to buildings under fumigation and ventilation. Bats are protected species; consult English Nature, Scottish Natural Heritage or the Countryside Commission for Wales as appropriate, if bats are present in buildings.  
Consumer protection:  
DO NOT ALLOW TABLETS OR THEIR SPENT RESIDUES TO COME INTO CONTACT WITH FOOD OR FEED. KEEP ALL PERSONS AND ANIMALS OUT of the fumigation area and adjacent areas into which gas might penetrate. Unprotected persons must be kept out of treated areas until the phosphine concentration in the atmosphere has fallen below the TLV of 0.01 ppm.  
Other specific restrictions:  
Storage and disposal:  
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN. Empty container completely using the method described under the heading 'Waste treatment methods' and dispose of safely in accordance with the instructions given under the heading .



**Contact with water liberates toxic gas.**  
**Contact with acids liberates very toxic gas.**  
**In contact with water releases flammable gases which may ignite spontaneously Fatal if swallowed.**  
**Toxic in contact with skin.**  
**Causes skin irritation**  
**Causes serious eye damage.**  
**Fatal if inhaled.**  
**Very toxic to aquatic life.**  
If medical advice is needed, have product container or label at hand.  
Keep out of reach of children  
Read label before use.  
Keep away from any possible contact with water, because of violent reaction and possible flash fire.  
Protect from moisture.  
Keep only in original container.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see first aid on this label).  
Brush off loose particles from skin.  
In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder for extinction.  
Store in a dry place. Store in a closed container.  
Store locked up.  
Do not contaminate water with the product or its container.  
**To avoid risks to human health and environment, comply with the instructions for use.**



UN1397

**ALUMINIUM  
PHOSPHIDE,  
MIXTURE**

**PCS No. 04685**

MANUFACTURED BY:  
Detia Freyberg Produktion GmbH,  
69514 Laudenbach / Germany

Authorisation holder/Distributed by:  
Detia Freyberg GmbH,  
Dr.-Werner-Freyberg-Str. 11,  
69514 Laudenbach / Germany

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Product/packaging disposal. Once opened the contents of the container must be used immediately.

Store locked up. Store in a dry place

Store in a closed container. Dispose of contents/container: degassed material should be disposed under observation of prevailing regulation to the next pollutant collection. Dispose of emptied container to recycling collections.

#### DIRECTIONS FOR USE:

**IMPORTANT:** This information is part of the approved Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product. Phostoxin Tablet can be used for the control of pests in grain such as rice, wheat, barley, maize, oats, sorghum, millet, rye etc., leaf tobacco, cereal products, dried fruit, dried vegetables, pulses, empty rooms and oilseeds. These commodities may be fumigated under gasproof sheets or in other sealed enclosures. Phostoxin Tablet has been found effective against stored product insects and their preadult stages (eggs, larvae and pupae). These include Grain, Rice, Bean, Pea and Maize weevils, Saw-toothed grain beetle, Confused flour beetle, Lesser grain borer, Rusty grain beetle, Khapra beetle, Angoumois grain moth, Indian meal moth, Mediterranean flour moth, Cigarette beetle, Tobacco Moth, Red flour beetle, Glabrous cabinet beetle, Mealworm beetle, Flour mite, Drugstore beetle and Mould mite. No fumigation with Phostoxin Tablet should be undertaken in conditions of low humidity. There must be an airing-off period until gas levels drop below the TLV of 0.01 ppm. Treatment by Phostoxin Tablet of oily material may cause taint of the product. 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.

**DOSAGE AND APPLICATION:** When fumigating silo bins it is recommended to use the automatic tablet / pellet dispenser. Do not use in bulk food/feed where the tablet/pellet will be in direct contact with the commodity.

Do not use in bulk food/feed where the tablet/pellet will be in direct contact with the commodity.

#### Dosages:

Commodities	Minimum individual dose	Maximum individual dose
Cereals, cereal products, dried fruit, pulses, dried, vegetable, oil seeds	5 g PH3/m <sup>3</sup> (5 tablets/m <sup>3</sup> )	10 g PH3/m <sup>3</sup> (10 tablets/m <sup>3</sup> )
Cereals on ships in transit tablets/m3	3 g PH3/m3 (3 tablets/m3)	5 g PH3/m3 (5
Packaged tobacco	5g PH3/m <sup>3</sup> (5 tablets/m <sup>3</sup> )	10 g PH3/m <sup>3</sup> (10 tablets/m <sup>3</sup> )
Space fumigation	5 g PH3/m <sup>3</sup> (5 tablets/m <sup>3</sup> )	10 g PH3/m <sup>3</sup> (10 tablets/m <sup>3</sup> )

Minimum dosages are applied if storage goods are loosely packed and fumigation can be performed under optimal conditions of 20°C - 30°C and 50% - 75% relative humidity. Maximum dosages should only be applied if storage goods are densely packed and fumigation can only be performed under worst case conditions of e.g. temperatures close to 10°C, or low relative humidity values or, if the insect population to be controlled is known to react with reduced sensitivity to phosphine fumigations'

**Safety zone:** Place warning notices at the fumigation area and all points of access to the risk area. A 5m risk area must be established around treated areas/buildings.

**Exposure times:** Minimum of 5-14 days for cereal products, cereals, dried fruit, dried vegetables, pulses, empty rooms, oilseeds, tobacco and 21 days for cereals on ships in transit. Maximum exposures of up to

14 days should only be applied together with maximum dosages under worst case conditions, e.g. if temperatures are close to 10°C, or if low relative humidity values are present, or if the insect population to be controlled is known to react with reduced sensitivity to phosphine fumigations.

#### Withholding period:

After airing, the following withholding periods must be observed for edible commodities

Cereals, oilseeds, pulses, tea, coffee, herbal infusions, cocoa, spices, Dried vegetables, fruits and mushrooms:	7 days
Processed cereal products:	14 days
Tree nuts:	21 days
Pistachios:	35 days

**Taint:** May cause taint of oily material. Operators should warn their clients of the possibility of taint caused by this product.

**Electrical wiring:** Phostoxin Tablet is corrosive to copper-based materials. Sensitive equipment containing copper components must be protected or removed during treatment.

**Other advice:** Fumigations must not be carried out when temperatures are below 10°C. No fumigation to be carried out in conditions of low humidity.

This product is approved under Regulation (EC) No 1107/2009

**Important:** The Poisons Act 1972 applies to this product.

Quite inevitably, the kind of use made and the method of treatment adopted in each case are beyond our control. We are thus not able to take any responsibility for possible failures or for any damage caused to men, animals or materials.

#### FIRST AID

If any of the above mentioned symptoms occurs or if poisoning is suspected: STOP WORK. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately. Symptoms of phosphine poisoning include faintness and a feeling of constriction in the chest. 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.

#### Waste Treatment Methods:

All pesticides must be disposed of as hazardous waste. Never wash out empty flasks with water. Empty the flask completely at site of use by upending and tapping the container so that any remaining powder residue is deposited. Check that the flask is visibly empty. If residue remains, repeat upending and tapping until fully removed. Ensure that the empty flask is kept dry.

#### Product/packaging disposal:

Disposal of waste flask: Handle and store empty flask as if they still contained product. Flasks must never be rinsed or cleaned. Place the cap back onto the empty flask loosely (this action should only be carried out prior to transporting to designated storage area, flask should NOT be re-capped if they still contain pellets, ensure that all product is used during the pest control treatment), this will help to ensure that any gas generated within the flask during transport from the treatment area is contained. Place the flask into a suitable bag. Label the bag and place the written confirmation that the waste treatment methods have been completed, date and sign. Seal the bag using tie wraps. Once at designated storage area and prior to waste collection, whilst wearing a full-face respirator with appropriate gas filter cartridge (which meets P3 standard for particulates) or SCBA (contact your PPE supplier for advice on suitable PPE and RPE) and whilst wearing suitable gloves and skin protection such as rubber/PVC gloves and coveralls, remove the flask from the sealed bag. Remove caps, taking care and pointing flask away from face and other people, as any generated gas may be present. Invert the flask on a mesh shelf in a secure caged area until all gas has vented from the flask. We recommend venting the flasks for 48 hours. Once venting is complete, re-cap flask and replace into and seal the plastic bag. Record on the written confirmation that the flask has been vented. Store in a designated secure storage area until collection by a licensed waste-disposal contractor. The written confirmation should include the name of the waste disposal contractor and the date they were contacted to collect the flask.

#### Safety information:

**After contact with skin, first remove product with dry cloth and then wash the skin with plenty of water. The container must be opened outdoor and in dry conditions.**

**Batch number / Expiry date: see print on flasks**