

**IMPORTANT INFORMATION**  
FOR USE ONLY AS AN INSECTICIDE IN FOOD STORAGE PRACTICE.

Crops/situations:	Maximum individual dose:	Maximum number of treatments: (per batch)
Grain, processed consumable products, pulses, dried vegetables, dried fruit, stored oilseeds, nuts, tea, coffee, cocoa, carob and herbal infusions, stored dried spices, Crop handling and storage structure, Tobacco.	1 bag per 1.14 m <sup>3</sup>	3

**Other specific restrictions**

This product must be used only by operators trained in the use of aluminium phosphide and familiar with the precautionary measures to be observed. See HSE guidance for employers and technicians carrying out fumigation operations (HSG251, as amended). Before applying this product to a ship cargo hold, users must follow current guidance issued by the International Maritime Organisation's Marine Safety Committee on the safe use of pesticides.

**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 PRECAUTIONS**

**Operator protection:** Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: KEEP ALL PERSONS AND ANIMALS OUT of fumigation area and adjacent areas into which gas might penetrate. 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 0.03ppm. \*Half-mask at least EN 140 with a combination filter to at least EN14387 B2 or equivalent. Other protective clothing must also be worn in accordance with HSE Publication Fumigation: Health and safety guidance for employers and technicians carrying out fumigation operations. 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 OPERATORS INSTRUCTED OR TRAINED IN THE USE OF ALUMINIUM PHOSPHIDE and familiar with the precautionary measures to be taken. See HSE guidance for employers and technicians carrying out fumigation operations (HSG251, as amended). CONTACT WITH WATER LIBERATES VERY TOXIC, HIGHLY FLAMMABLE GAS WHICH IS IRRITATING TO THE EYES AND THE RESPIRATORY SYSTEM. OPEN CONTAINER IN A WELL VENTILATED SPACE. AVOID ALL CONTACT BY MOUTH, SKIN AND EYES. Spill After contact with skin first remove product with a dry cloth and then wash skin with plenty of water. WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work. WHEN USING DO NOT EAT, DRINK OR SMOKE EXTINGUISH ALL NAKED FLAMES INCLUDING PILOT LIGHT WHEN FUMIGATING. DO NOT BREATHE GAS.

**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 BAGS/ENVELOPES TO COME INTO CONTACT WITH FOOD OR FEED other than the commodity being treated. DO NOT UNDO CONTENTS OF THE BAG TO COME INTO CONTACT WITH FOOD OR FEED. Unprotected persons must be kept out of treated areas until the phosphine concentration in the atmosphere has fallen below 0.03 ppm. TREATED COMMODITIES MUST BE SCREENED to ensure removal of spent envelopes following fumigation and before removal of commodities from store.

**Storage and disposal:** Keep away from any possible contact with water because of violent reaction and possible flash fire. Protect from moisture. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN. Dispose of spent bags in accordance with HSE guidance HSG251: fumigation. Dispose of empty containers safely in accordance with guidelines given in 'Pesticides: Code of Practice using Plant Protection Products' Keep only in original container, tightly closed, in a safe place. DO NOT BULK SPENT RESIDUES / used bags. Spontaneous ignition could result. DO NOT RE-USE CONTAINER FOR ANY PURPOSE. \* Where treated commodities are not retrieved immediately after ailing, these persons applying the fumigant must ensure that its owners are aware of the ultimate need to recover envelopes and dispose of them safely. PHOSTOXIN BAG is a pesticide in ready-for-use bags releasing the highly effective hydrogen phosphide (phosphine) when it is exposed to the atmospheric humidity. PHOSTOXIN BAG is effective for the control of stored product pests without leaving dust residues in the fumigated goods.

**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.

**Application Methods:** The effectiveness of any fumigation depends on good sealing. Never seal opened aluminium sachets or store aluminium sachets in other containers. PROTECT THE PREPARATION AGAINST WATER AND OTHER LIQUIDS and avoid accumulation of bags, otherwise self-ignition of the phosphine may occur. After application close the warehouse hermetically and put up warning notices. PHOSTOXIN BAG can be used for the control of pests in cereal products, cereals, dried fruit, dried vegetables, pulses, oilseeds, and tobacco. These commodities may be fumigated under gas-proof sheets or in other sealed enclosures. PHOSTOXIN BAG can also be used for fumigation of cereals on ships in transit and for empty space fumigation. PHOSTOXIN BAG have been found effective against the following stored product insects and their pre-adult stages. 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 Soudan mite. USE ALL CONTENTS OF THE ALUMINIUM FOIL POUCH. DO NOT RESEAL. WARNING: Spontaneous combustion can arise due to moisture release of phosphine gas if an aluminium foil pouch having been opened once is then re-sealed.

**RESTRICTIONS:** DO NOT treat commodities intended for use as seed or for germination more than once. Multiple treatments of a batch are only permitted when a new infested batch has been added to the storage facility. No more than 3 applications per batch are permitted.

**RESISTANCE:** Resistance to phosphine has been reported in a number of storage pests. Poor fumigation practice is likely to lead to ineffective treatments which may result in the selection and survival of individual pests resistant to phosphine. Multiple treatments to the same batch are more likely to select for resistant individuals and should only be considered when a new infested batch is added to the same storage facility. Follow the best available storage practice in order to maximise the effectiveness of the fumigation and avoid the need for repeated use of phosphine. Such practice should follow an integrated pest management (IPM) approach including the use of non-chemical methods (e.g. hygiene, temperature and humidity control), together with the use of phosphine in gas tight storage rooms at a sufficient dose and exposure period. Where available and practical the use of an insecticide with a different mode of action should also be considered.

**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.

# Phostoxin®

## PHOSTOXIN BAG BAG BLANKET

MAPP 20948

A gas-generating preparation containing Aluminium Phosphide 57% w/w

FOR USE ONLY AS AN INSECTICIDE IN FOOD

STORAGE PRACTICE

UFI K630-W0C9-0007-9VK2



### ANGER

In CONTACT with water releases flammable gases which may ignite spontaneously, FATAL if swallowed. TOXIC in contact with skin. FATAL if inhaled. VERY TOXIC to aquatic life. CONTACT with water liberates toxic gas. CONTACT with acids liberates very toxic gas. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Keep only in original container. Do not breathe dust/gas. 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 person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor.

Specific treatments: In case of headache, dizziness, feeling of constriction, difficult breathing and nausea immediately leave the danger zone and seek fresh air; consult a physician; inhale products for acute treatment following exposition of smoke gas (e.g. Ventolair®). Brush off loose particles from skin. In case of fire: Use dry sand or powder and then use CO<sub>2</sub> for extinction. Store in a dry place. Store in a closed container. Store locked up.

Disposal of contents/container: degassed material should be disposed under observation of prevailing regulation (waste code: 060316); for substance/preparation/residue: waste code 061301. To avoid risks to man and the environment, comply with the instructions for use.

**ACTIVE INGREDIENT:** Aluminium Phosphide 57 % w/w

CAS No. 20859-73-8

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Contents: 100 normal bags of 34 grams each

## Net weight: 3400g

**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. Further advice from nearest National Poisons Information Centre 0844 892 0111.

**Marketed by:**

Rentokil Initial UK Ltd, Compass House, Manor Royal, Crawley, West Sussex, RH10 9PY

**Product Advice Line:** +44 (0)151 548 5050

**Emergency Line:** +44 (0) 1342 833 022

**Manufactured by:** DETIA FREYBERG PRODUKTION GMBH, Dr.-Werner-Freyberg-Str. 11, 69514 Laudenbach, Germany

**Authorisation holder:** DETIA FREYBERG GMBH, Dr.-Werner-Freyberg-Str. 11, 69514 Laudenbach / Germany

**MADE IN GERMANY**

**DOSEAGE AND APPLICATION:** Recommended Dosages: The applicable dosage of the fumigation bags depends on several factors, such as kind of pests, temperature and nature of storage. If possible the exposure period should always be lengthened. 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. temperature close to 10°C, or low relative humidity values are present or if the insect population to be controlled is known to react with reduced sensitivity to phosphine fumigations.

Commodities	Maximum individual dose
Grain, processed consumable products, pulses, dried vegetables, dried fruit, stored oilseeds, nuts, tea, coffee, cocoa, carob and herbal infusions, stored dried spices, tobacco.	0.9 bags/m <sup>3</sup> 10 g PH <sub>3</sub> /m <sup>3</sup>
Cereals on ships in transit.	1 bag/0.49 m <sup>3</sup> 11 g PH <sub>3</sub> /0.49 m <sup>3</sup>
Space fumigation.	0.9 bags/m <sup>3</sup> 10 g PH <sub>3</sub> /m <sup>3</sup>

**Airing:** Following fumigation there should be an airing-off period until phosphine gas levels drop below 0.03ppm. See Safety Precautions section for further details. The fumigated rooms and all adjacent rooms should not be entered without gas mask unless harmful gas concentrations are no longer present.

**Exposure times:**

Minimum of 5-14 days for space fumigation  
5-14 days for fumigation of cereals  
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.

**Taint:** May cause taint of oily material. Operators should warn their clients of the possibility of taint caused by this product. Electrical wiring: PHOSTOXIN BAG is corrosive to copper-based materials. Sensitive equipment containing copper components must be protected or removed during treatment.

**Other advice:** Fumigation must not be carried out when temperatures are below 10°C. No fumigations to be carried out in conditions of low humidity. Generally it should be made a rule to leave the commodity under gas as long as possible. Allow grain to air until the phosphine gas levels drop below 0.03 ppm. Tobacco in cases or bales will require 2 days ventilation or until phosphine gas levels are 0.03 ppm or lower. Ventilate hoghead for not less than 3 days or until the phosphine gas level is below 0.03 ppm.

**Silo Bins:** Only use fumigation bags in such bins where recovery is possible. Bags are added at regular intervals through the upper entrance hatch or feeding tube, while filling the grain or other product. Goods in Bulk: Distribute the bags evenly. Push single bags by hand into the goods down to an approx. depth of 30 cm (1 ft.). If necessary (when the area is not gastight) cover the goods with tarpaulins of plastic sheets.

**Sacked Goods:** Attach the series of bags to the piles by inserting the top bag between two sacks or bales or put them on top thereof. Then cover with tarpaulins if not fumigating the store-room as a whole.

**Empty store-rooms and empty silos:** Distribute the bag-series equally in the store-room. WARNING: Phosphine gas can corrode electrical systems.

**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

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



**UN 1397  
ALUMINIUM  
PHOSPHIDE**