

STATUTORY CONDITIONS RELATING TO USE  
**FOR USE ONLY AS A FUMIGANT IN FOOD STORAGE PRACTICE.**  
 For use on grain, oilseeds, coconut, pulses, processed consumable products, dried fruit, nuts and in crop handling and storage structures.  
**Maximum Individual Dose:** see 'DIRECTIONS FOR USE'  
 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.

**BAGS MUST BE RECOVERED** from food or feed after treatment and buried.  
**OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\*** when opening container, handling and placing the bags.

(i.e. full face respirator with appropriate gas filter cartridge (which also meets P3 standard for particulates) or RPE offering equivalent protection). 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 observed. Use in accordance with the Health and Safety Commission's Code of Practice, COP 30 Health and Safety Commission Control of Substances Hazardous to Health in Fumigation Operations and the HSE publication Fumigation: Health and safety guidance for employers and technicians carrying out fumigation operations. Avoid release to the environment. Refer to special instructions/Safety data sheets.  
**VERY TOXIC TO AQUATIC ORGANISMS.** Contact with acid liberates very toxic gas. Very toxic by inhalation and if swallowed.

Never add water to this product. In case of fire, use dry sand, powder or CO<sub>2</sub>. Never use water. Once opened the pouch the contents must be used immediately.  
 Unprotected persons must be kept out of treated areas until the phosphine concentration in the atmosphere has fallen below the operator exposure standard.

Following fumigation there must be an airing-off period of at least four hours or until gas levels drop below the Occupational Exposure Standard.  
 Access by livestock, pets and other non-target mammals and birds to buildings under fumigation and ventilation must be prevented. As bats are protected species English Nature, Scottish Natural Heritage or the Countryside Commission for Wales as appropriate should be consulted if bats are present in buildings to be treated. **DO NOT RE-USE CONTAINER FOR ANY PURPOSE.**  
**READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE.**

#### SAFETY PRECAUTIONS

Operator protection:  
**CONTACT WITH WATER LIBERATES VERY TOXIC, HIGHLY FLAMMABLE GAS WHICH IS IRRITATING TO THE EYES AND THE RESPIRATORY SYSTEM.**  
**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 publication 'Fumigation': Health and safety guidance for employers and technicians carrying out fumigation operations.

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\*** when opening container, handling and placing the bags.  
 \* (i.e. full face respirator with appropriate gas filter cartridge (which also meets P3 standard for particulates) or RPE offering equivalent protection).

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. **OPEN CONTACT WITH WATER LIBERATES VERY TOXIC, HIGHLY FLAMMABLE GAS WHICH IS IRRITATING TO THE EYES AND THE RESPIRATORY SYSTEM.**  
**WASH HANDS AND EXPOSED SKIN BEFORE EATING, DRINKING OR SMOKING AFTER WORK. WHEN USING DO NOT EAT, DRINK OR SMOKE.**  
**EXTINGUISH ALL NAKED FLAMES INCLUDING PILOT LIGHT WHEN FUMIGATING.**

Do not breathe the gas/fumes/vapour/spray (appropriate warning to be specified by the manufacturer).  
 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice **immediately** (show the label where possible).  
 Environmental protection:  
**AVOID RELEASE TO THE ENVIRONMENT.**

**REFER TO SPECIAL INSTRUCTIONS / SAFETY DATA SHEETS.**  
 Detia-Gas-Ex B contains substances which are known to be hazardous to the environment. Do not contaminate ground, water bodies or watercourses with chemical or used container.  
 Container protection:  
**TREATED CEREAL GRAINS MUST BE SCREENED** on removal from place and treatment.  
**DO NOT ALLOW BAGS OR THEIR SPENT RESIDUES TO COME INTO CONTACT WITH FOOD OR FEED** other than the raw commodity.  
 Storage and disposal:  
 Keep out of the reach of children.

Keep only in the original container in a cool, well ventilated place. Keep away from food, drink and animal feeding stuffs. **KEEP IN A DRY PLACE AWAY FROM DWELLINGS:**  
**EMPTY CONTAINER COMPLETELY** and dispose of safely in accordance with the guidelines given in the Environmental Protection Products' (EPP) Code of Practice.  
**DO NOT ALLOW EVEN SPENT ENVELOPES TO COME INTO CONTACT WITH FOOD OR FEED** other than raw commodity.  
 Do NOT BULK SPENT RESIDUES / USE BAGS. Spontaneous ignition could result. **DO NOT RE-USE CONTAINER FOR ANY PURPOSE.**

\* Where treatment is not removed immediately after airing, those person applying the fumigant must ensure that its owners are aware of the ultimate need to recover envelopes and dispose of them safely.

# Detia® DETIA-GAS-EX B Bag Blanket

MAFF 06927

FOR USE ONLY AS A FUMIGANT IN FOOD STORAGE PRACTICE.

#### ACTIVE INGREDIENT:

Aluminium Phosphide 57 % w/w

The (COSHH) Control of Substances Hazardous to Health Regulations 1988 may apply to the use of this product at work.

Contents: 1 Blanket = 100 bags of 34 g each

Net weight: 3,400 g



H260 In contact with water releases flammable gases which may ignite spontaneously.  
 H300 Fatal if swallowed.  
 H330 Fatal if inhaled.  
 H311 Toxic in contact with skin.  
 H400 Very toxic to aquatic life.  
 P321 Specific treatment (see first Aid on this label).  
 P501 Dispose of this material and its container to hazardous or special waste collection point.  
 P402+P404 Store in a dry place. Store in a closed container.  
 P405 Store locked up.  
 P370+P378 In case of fire: Use Sand; Extinguishing powder; Carbon dioxide to extinguish.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P335 Brush off loose particles from skin.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P273 Avoid release to the environment.  
 P234 Keep only in original container.  
 P232 Protect from moisture.  
 P223 Do not allow contact with water.  
 EUH029 Contact with water liberates toxic gas.  
 EUH032 Contact with acids liberates very toxic gas.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**FIRST AID:** IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL seek medical advice immediately. Symptoms of phosphine poisoning include faintness and a feeling of oppression in the chest. Affected persons should stop work immediately, go to fresh air, keep warm and be given absolute rest. CALL A DOCTOR IMMEDIATELY AND SHOW HIM CONTAINER.  
**GUIDE TO DOCTOR:** Treatment for suspected poisoning should be symptomatic and supporting care.  
**NOTE TO DOCTOR:** For further information contact your local National Poisons Information Centre.

Distributed by: Rentokil Initial Supplies, Liverpool L3 7SR.  
 Product/Active Line: +44 (0)151 548 5050, Emergency Line +44 (0) 1342 833022.  
 Manufactured by: DETIA FREYBERG GMBH, Dr.-Werner-Freyberg-Str. 11, 69514 Laudenbach, Germany

DETIA-GAS-EX B is a pesticide in ready-for-use bags releasing the highly effective hydrogen phosphide (phosphine) when it is exposed to the atmospheric humidity. DETIA-GAS-EX B is effective for the control of stored product pests without leaving dust residues in the fumigated goods.

**DIRECTIONS FOR USE:** DETIA-GAS-EX B must only be used as directed on the label.  
 Application Methods: The effectiveness of any fumigation depends on good sealing. Open containers outdoors. Never re-seal opened containers or store bags in other containers. **PROTECT THE SEIGNIFIANCE OF THE PHOSPHINE** against water and other liquids and avoid accumulation of bags, otherwise warning notices. **USE ALL CONTENTS OF THE ALUMINIUM FOIL POUCH. DO NOT RE-SEAL AND PUT UP**

**WARNING:** Spontaneous combustion can arise due to sudden release of phosphine gas if an aluminium foil pouch having been opened once is then re-opened.  
 Following fumigation there should be an airing-off period of at least four hours or until gas levels drop below the Occupational Exposure Standard. The fumigated rooms and all adjacent rooms should not be entered without gasmask unless harmful gas concentrations are no longer present.

Exposure limit:  
 Minimum of 14 days at 12-15°C  
 10 days at 16-20°C  
 7 days at more than 20°C

Taint: May cause taint of oily material. Finished chocolate in metallic wrappings may become tain tad by phosphine fumigations.  
 Electrical wiring: Detia-Gas-Ex B 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 left to leave the commodity under gas as long as possible. Allow grain to air for three hours. Tobacco in cases or bales will require 2 days ventilation. Ventilate hogshed for not less than 3 days. Foods and animal feeds should be aired for at least 2 days before use.

**Goods in Bulk:** Distribute the Detia Bag Blankets evenly on the surface of the goods and cover them with the goods to be stored to a depth of about 30 cm (12 in). Then close the grain surface with gas proof sheets carefully and without gaps and post clearly visible warning notices.

**Empty store-rooms and empty silos:** Distribute the blankets equally in the store-room. Remove the blankets from the foil and unroll them on the floor. Then close the warehouse hermetically and put up warning notices.

**In-transit Shipboard fumigation:** Check the suitability of the bulk carriers and tankers for the in-transit fumigation and sail possible lanes. Inform thoroughly the captain and the crew. After the loading of the holds is completed the Detia Bag Blankets are rolled out on the surface and finally covered with grain. Then close hermetically the holds and attach warning notices. During the sea passage the holds must remain closed. Regular measurements of the gas concentration in the crew's quarters and stores of the ship have to be made. In this context, we refer to the national regulations as well as the recommendations of IMO.

**Silo bins:** Only use fumigation bag blankets in such bins where recovery is possible. Bag blankets are added at regular intervals through the upper entrance hatch or feeding tube, while filling the grain or other products.

#### 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.

Commodities	Maximum individual dose phosphine perm <sup>3</sup> (bags perm <sup>3</sup> )	
	Gas-tight situations	Non-gas-tight situations
Packaged tobacco	1 g/m <sup>3</sup> (2 Bag Blankets/2300 m <sup>3</sup> )	2 g/m <sup>3</sup> (4 Bag Blankets/ 2300 m <sup>3</sup> )
Grain, oilseeds, coconut, pulses, processed consumable products	2 g/m <sup>3</sup> (1 Bag Blanket/570m <sup>3</sup> )	4 g/m <sup>3</sup> (2 Bag Blankets/570 m <sup>3</sup> ) (see "Other specific restrictions")
Confectionery and biscuits, dried fruit, nuts,	1.3 g/m <sup>3</sup> (1 Bag Blanket/870 m <sup>3</sup> )	2.6 g/m <sup>3</sup> (2 Bag Blankets/870 m <sup>3</sup> )
Crop handling and storage structure	3 g/m <sup>3</sup> (1 Bag Blanket/380 m <sup>3</sup> )	6 g/m <sup>3</sup> (2 Bag Blankets/380 m <sup>3</sup> )

If possible the exposure period should always be lengthened. For further instructions on use, refer to the Detia Degech Manual, available from Rentokil.  
 Disposal: The remains of bags must be removed after treatment and disposed of safely. **EMPTY CONTAINER COMPLETELY. REMOVE ALL SPENT BAGS** and dispose of safely in accordance with the guidelines given in: Code of Practice for using Plant Protection Products' unless used on non-agricultural premises when disposal must be in accordance with the Health and Safety Commission's Approved Code of Practice. "The safe use of pesticides for non-agricultural purposes" and the Department of the Environment's Code of Practice on the Duty of care.  
 Do not use for the control of stored product pests. At low temperature and/or humidity the fumigation period must be prolonged to such an extent that the bags are completely spent. Do not tear or cut the bags.

Warning: Before fumigating spices, tea or other delicate or aromatic goods, a test of small amounts is recommended prior to a large scale of fumigation, if there is any change in quality (e.g. taste, flavour, odour). Operators should warn their clients of the possibility of taint caused by this product. This product has not been tested for taint. Protect objects containing copper, silver, gold or other precious metals and alloys thereof against the generated phosphine. Do not use for the control of stored product pests. Do not fumigate living plants or vegetables and fruit (other than in dried condition) Further recommendation: see Detia Degech Manual.