

STATUTORY CONDITIONS RELATING TO USE

FOR USE ONLY AS A FUMIGANT IN FOOD STORAGE PRACTICE.

For use on grain, oilseeds, 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 CO₂. 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 CONTAINER IN A WELL VENTILATED SPACE AVOID ALL CONTACT BY MOUTH.

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 PILING OUT LIGHT WHEN FUMIGATING.

DO NOT breathe gas fumes/vapour/any (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 CAS 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.

Consumer 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 COMPLY WITH disposal of safety in accordance with the guidelines given in 'Code of Practice for using Plant Protection Products'.

DO NOT ALLOW EVEN SPENT ENVELOPES TO COME INTO CONTACT WITH FOOD OR FEED other than raw commodity.

DO NOT BULK SPENT RESIDUES / used bags. Spontaneous ignition could result. DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

*Where treated grain 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

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: 20 normal Bags of 34 g each

Net weight: 680 g



DANGER

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, kept 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 L33 7SR.

Product Advice Line: +44 (0)151 548 6050, 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-to-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 open containers or store bags 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. USE ALL CONTENTS OF THE ALUMINIUM FOIL POUCH. DO NOT RESEAL.

WARNING: Spontaneous combustion can arise due to sudden release of phosphine gas if aluminium foil pouch having been opened once is then re-opened.

Airing: 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 limits:

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 taint 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 made a rule to leave the commodity under gas as long as possible. Allow grain to air for three hours. Tobacco in casks or bales will require at least 2 days before use.

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 gas-tight) cover the goods with tarpaulins of plastic sheets.

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

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.

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.

DOSE 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 g phosphine per m ³ (bags per m ³)	
	Gas-tight situations	non-gas-tight situations
Packaged tobacco	1 g/m ³ (2 Bags/23 m ³)	2 g/m ³ (4 Bags/23 m ³)
Grain, oilseeds, coconut, pulses, processed consumable products	2 g/m ³ (1 Bag/5.7 m ³)	4 g/m ³ (2 Bags/5.7 m ³) (see "Other specific restrictions")
Confectionery and biscuits, dried fruit, nuts,	1.3 g/m ³ (1 Bag/8.7 m ³)	2.6 g/m ³ (2 Bags/8.7 m ³)
Crop handling and storage structure	3 g/m ³ (1 Bag/3.8 m ³)	6 g/m ³ (2 Bags/3.8 m ³)

If possible the exposure period should always be lengthened. For further instructions on use, refer to the Detia Degeesh 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 dispose of fumigation bags not completely spent. 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 since it can corrode such metals and alloys. Do not fumigate living plants or vegetables and fruit (other than in dried condition) Further recommendation: see Detia Degeesh Manual.