

Main panel (340g size)

**DANGEROUS POISON**  
**KEEP OUT OF REACH OF CHILDREN**  
**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

**Rentokil**  
**GASTION**  
**PHOSPHINE FUMIGATION BELT**

**ACTIVE CONSTITUENT:**  
**570g/kg ALUMINIUM PHOSPHIDE developing 330g/kg PHOSPHINE (PH<sub>3</sub>)**

**FOR CONTROL OF INSECT PESTS AND IMMATURE STAGES OF STORED INSECT PESTS**

Pests to be controlled: Angoumois grain moth, bean weevil, cadelle, cigarette beetle, coffee bean weevil, confused flour beetle, dried fruit beetle, flat grain beetle, flour beetles, merchant grain beetle, granary weevil, Indian meal moth, Lesser grain borer, maize weevil, Mediterranean flour moth, mottled grain moth, psocids, raisin moth, red-legged ham beetle, rice weevil, rust red flour beetle, sawtoothed grain beetle, skin & hide beetle, spider beetles, stored product mites, tobacco moth, tropical warehouse moth, warehouse beetle.

**340g NET**

Contents: ONE 340g BELT  
**DO NOT OPEN CAN UNTIL READY TO USE**

Manufactured by:  
Casa Bernardo Ltda S. Vicente - Sao Paulo - BRAZIL  
Whose trademark is GASTION

Distributed in Australia by:  
**RENTOKIL INITIAL Pty Ltd** A.C.N. 000 034 597  
150 Mowbray Road, Willoughby, NSW 2068 Australia  
Telephone 02 9958 0277  
a Rentokil Initial company

BATCH No.

DOM:

<b>N.R.A.</b>	
<b>APPROVED LABEL (TEXT)</b>	
Label No:	46212/0302
Date:	9 / 4 / 02
Signature:	<i>Chall</i>

*Main panel (3.4kg size)*

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Pests to be controlled: Angoumois grain moth, bean weevil, cadelle, cigarette beetle, coffee bean weevil, confused flour beetle, dried fruit beetle, flat grain beetle, flour beetles, merchant grain beetle, granary weevil, Indian meal moth, Lesser grain borer, maize weevil, Mediterranean flour moth, mottled grain moth, psocids, raisin moth, red-legged ham beetle, rice weevil, rust red flour beetle, sawtoothed grain beetle, skin & hide beetle, spider beetles, stored product mites, tobacco moth, tropical warehouse moth, warehouse beetle.

**3.4kg NET**  
Contents: TWO 1.7kg BELTS

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BATCH No.

DOM:

*Ancillary Panel 1 (3.4kg size)*

**DIRECTIONS FOR USE: (NSW, VIC, SA, WA & QLD only)**

**RESTRAINTS:**

**DO NOT** use when commodity temperature is less than 15°C or the relative humidity within the structure is less than 25% or with raw cereal grains when the moisture content is less than 9%.

**DO NOT** apply as a surface only treatment in a structure whose height exceeds twice its width. (See note 1).

**DO NOT** use on any commodity, empty containers, railcars or vessels that are in transit during exposure or ventilation.

**DO NOT** fumigate inhabited buildings.

COMMODITY	STRUCTURES/ CONTAINERS (See note 1)	APPLICATION (see note 2)		MINIMUM EXPOSURE PERIODS (see note 3)
		Basic Rate (g phosphine per m <sup>3</sup> )	Volume treated per 3.4kg fumigation belts (m <sup>3</sup> )	
Raw cereal grains (such as barley, maize, millet, oats, rice, rye, sorghum, triticale, wheat) and other food (such as flour and other milled cereal products, breakfast cereals, dried fruits, dried vegetables, other dried foods, peanuts, oilseeds, cocoa and coffee beans); and seeds for propagation and bulk stockfeeds	All well sealed structures	1.5	748.0	(a) 10 days when commodity temperature is 15°C to 25°C. 7 days when commodity temperature is above 25°C. (b) 20 days for surface only application in structures greater than 375m <sup>3</sup> capacity (e.g. 300 tonnes grain)
	Small structures/ enclosures of less than 300 tonnes (e.g. 1 tonne of wheat = 1.25m <sup>3</sup> ) capacity which cannot be well-sealed:- • Bolted steel silos, horizontal sheds, bag stacks under plastic sheeting. • Open-topped concrete silos without plastic sheeting.	5.0	224.4	
		2.5	448.8	
Raw cereal grains (as above)	Well-sealed plastic-covered bunker storages of not less than 1000 tonnes capacity.	0.6	1870.0	20 days
Tobacco	Bales, hogsheads, cases in well-sealed fumigation enclosures.	1.5	748.0	7 days
-	Well sealed empty warehouses, elevators, stores etc.			10 days when temperature is 15°C to 25°C. 7 days when temperature is above 25°C.

**BELTS MUST BE REMOVED AFTER FUMIGATION**

*Ancillary Panel 1 (340g size)*

**DIRECTIONS FOR USE: (NSW, VIC, SA, WA & QLD only)**

**RESTRAINTS:**

**DO NOT** use when commodity temperature is less than 15°C or the relative humidity within the structure is less than 25% or with raw cereal grains when the moisture content is less than 9%.

**DO NOT** apply as a surface only treatment in a structure whose height exceeds twice its width. (See note 1).

**DO NOT** use on any commodity, empty containers, railcars or vessels that are in transit during exposure or ventilation.

**DO NOT** fumigate inhabited buildings.

COMMODITY	STRUCTURES/ CONTAINERS (See note 1)	APPLICATION (see note 2)		MINIMUM EXPOSURE PERIODS (see note 3)
		Basic Rate (g phosphine per m <sup>3</sup> )	Volume treated per 340g fumigation belt (m <sup>3</sup> )	
Raw cereal grains (such as barley, maize, millet, oats, rice, rye, sorghum, triticale, wheat) and other food (such as flour and other milled cereal products, breakfast cereals, dried fruits, dried vegetables, other dried foods, peanuts, oilseeds, cocoa and coffee beans); and seeds for propagation and bulk stockfeeds.	All well sealed structures	1.5	74.8	(a) 10 days when commodity temperature is 15°C to 25°C. 7 days when commodity temperature is above 25°C. (b) 20 days for surface only application in structures greater than 375m <sup>3</sup> capacity (e.g. 300 tonnes grain)
	Small structures/ enclosures of less than 300 tonnes (e.g. 1 tonne of wheat = 1.25m <sup>3</sup> ) capacity which cannot be well-sealed:- <ul style="list-style-type: none"> <li>• Bolted steel silos, horizontal sheds, bag stacks under plastic sheeting.</li> <li>• Open-topped concrete silos without plastic sheeting.</li> </ul>	5.0	22.4	
		2.5	44.8	
Raw cereal grains (as above)	Well-sealed plastic-covered bunker storages of not less than 1000 tonnes capacity.	0.6	187.0	20 days
Tobacco	Bales, hogsheads, cases in well-sealed fumigation enclosures.	1.5	74.8	7 days
-	Well sealed empty warehouses, elevators, stores etc.			10 days when temperature is 15°C to 25°C. 7 days when temperature is above 25°C.
<b>BELT MUST BE REMOVED AFTER FUMIGATION</b>				

**NOTES**

**Note 1** These specified rates, exposure periods, surface treatment restrictions, etc are valid for structures in which gas circulation is by convective movement only, including fumigation chambers; well-sealed silos or sheds or buildings; and other fumigation enclosures made gas-tight with gas-proof sheeting. "Well-sealed" means sealing by approved methods. (See e.g. SCA Ent. Committee "Dosage Recommendations for the Fumigation of Grain with Phosphine" page 2) i.e. permanent sealing of porous surfaces, seams, cracks and temporary sealing of intake and/or outlet valves, doors, windows and hatches.

Structures which cannot be well-sealed should not be treated by surface only application.

**NOTE: STRUCTURES GREATER THAN 375m<sup>3</sup> (300 TONNES) CAPACITY ARE EXPECTED TO BE WELL-SEALED. IF THEY ARE NOT, FUMIGATION MAY GIVE INADEQUATE CONTROL.**

**Note 2** Phosphine application rates are based on the internal volume of the structures to be fumigated; they apply equally to fully or partly-filled or empty structures, and they apply to all commodities. Commodity equivalent rates (g/tonnes) should only be used when the commodity stowage factor is known, they apply only when the storage structures are full or nearly full or when part-filled structures are dosed on the tonnage equivalents of their internal volumes. The calculated commodity equivalent dosage must be based on the rate per volume.

**Note 3** Minimum exposure periods should start from the time of completion of application.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIOD: ALLOW A PERIOD OF 2 DAYS AFTER COMPLETION OF VENTILATION BEFORE USING TREATED COMMODITIES FOR HUMAN CONSUMPTION OR FOR STOCK FEED. TREATED COMMODITIES MAY BE SAFELY TRANSPORTED AFTER COMPLETION OF THE RECOMMENDED VENTILATION PERIOD.**

**GENERAL INSTRUCTIONS:**

The use of GASTION should not present a hazard to operators provided they work in accordance with the National Health & Medical Research Council's "Code of Practice for the fumigation of Grain with Phosphine".

Protect by sealing or otherwise sensitive electrical and electronic equipment (meters, switches, fire alarm systems, etc.) containing copper/copper alloy components, photographic film or copy paper. Phosphine corrodes copper-based materials.

Show the following warning signs prominently at all approaches to every fumigation site: "DANGER-POISON GAS-KEEP AWAY". Do NOT enter fumigation areas until measuring device(s) indicate that they are free of phosphine. The use of gas detection tubes or other measuring devices is recommended for monitoring gas levels in fumigation areas.

Keep animals, children and unauthorised persons away from the area under treatment until the area is shown to be free from phosphine as indicated by a gas measuring device.

**APPLICATION:** When the belt is used in temporary bunker type storages it should be placed down slopes with upper end about 2 metres below the crest.

**SPACE FUMIGATION**

Place GASTION PHOSPHINE FUMIGATION BELT in the enclosure. Ensure that the enclosure is made gas-tight. Lock and seal the exit door after application.

**FUMIGATION OF COMMODITIES IN BAGS, PACKAGES, BALES, CASES AND STACKS UNDER GAS-PROOF SHEETING, OR IN ENCLOSURES WHICH ARE MADE GAS-TIGHT.**

Place GASTION PHOSPHINE FUMIGATION BELT between or alongside stacked commodities in a manner that allows free circulation of gas. Where gas-proof sheeting is used ensure its edges are sealed to the ground in a gas tight manner after application.

**VENTILATION - ON COMPLETION OF EXPOSURE PERIOD**

These are minimum ventilation periods.

**Structures containing treated commodities:**

- (a) with throughflow and forced draught (flash-proof fan) operated 2 hours on and 2 hours off- 12 to 24 hours, depending on the size of the structure
- (b) with throughflow and natural draught (wind)- For structures of 375m<sup>3</sup> (300 tonnes) or greater capacity- 2 to 5 days, depending on size; for structures of less than 375m<sup>3</sup> (300 tonnes) capacity- 5 days.

**Well-sealed, plastic-covered bunker storages of less than 1000 tonnes capacity**  
- 2 hours after removal of cover.

**Empty buildings:**

- (a) with throughflow and forced draught (flash-proof fan) operated 2 hours on and 2 hours off- 1 to 2 days, depending on the size of the structure.
- (b) with throughflow and natural draught (wind)- For structures of 375m<sup>3</sup> (300 tonnes) or greater capacity- not less than 2 days, depending on structure size, openings, prevailing wind speed; for structures of less than 375m<sup>3</sup> (300 tonnes) capacity- 5 days.

**NRA Approval No: 46212/0302**

*Ancillary Panel 3 (both sizes)*

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:** This product is highly toxic to wildlife. Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL:** Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store out of reach of children or unauthorised persons and away from all dwellings.

Keep away from water and liquids. Water and many liquids cause immediate release of phosphine from GASTION PHOSPHINE FUMIGATION BELT.

The product should never be used under conditions which would allow the gas concentrations to reach the lower level of flammability which is 1.79% by volume (17,900 parts per million). When used according to the label directions the amount of gas produced remains far below the lower flammability level.

Never confine the product in a small gas-proof enclosure such as plastic bags. Such confinement could cause the gas concentrations to reach the lower flammability level.

Belts must be removed after fumigation. Ensure the chemical is destroyed before disposal e.g. by placing belts in a plastic bucket full of soapy water in open air until bubbling ceases. Disposal of the "dust" remaining after space fumigation must be carefully and properly done.

Triple rinse containers with soapy water to ensure residual phosphide is destroyed, crush the containers and cover them and the spent belts with 500mm of soil at a municipal or private sanitary landfill tip that does not burn its refuse.

Do not carry opened containers within the passenger compartment of a vehicle.

**FLAMMABILITY:** Flammable. Keep away from naked flame.

**SAFETY DIRECTIONS:** Very dangerous. Product can kill if swallowed. Releases dangerous phosphine gas slowly in moist air and immediately if wet. Can kill if inhaled. Do not inhale vapour. Avoid contact with eyes and skin. Do not inhale dust. Open container in the open air. Keep away from water and liquids. Keep away from naked flames- forms toxic gas. Use entire contents in one operation; if not possible, seal thoroughly with waterproof adhesive tape or air-tight closure. When opening the container and using the product wear elbow-length PVC gloves. If dispensing by hand, wear full facepiece respirator with combined dust and gas cartridge (canister) or supplied air respirator. Wash hands after use.

**FIRST AID:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 1126. Do not give direct mouth-to-mouth resuscitation if swallowed. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

**MSDS:** Additional information is listed in the Material Safety Data Sheet.

**MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY:** This product as supplied is of a high grade and believed to be suitable for any purpose for which it is expressly recommended and must be used in accordance with the Directions for Use given on the label. No responsibility is accepted in respect of this product save those non-excludable conditions implied by any Federal or State legislation or law of a Territory.

**UN 3048 ALUMINIUM PHOSPHIDE PESTICIDE**

