

رقم التسجيل : DXB-AD-140-1567622  
التاريخ : 08-09-2025

قطاع التنوع الغذائي  
إدارة التنمية والصحة الزراعية

تسجيل مبيد  
مبيدات  
مبيدات

مبيد افانتر الحمية (حشري/ للمخزن و الصوامع)

تشهد مؤسسة الإمارات للدواء بأن المبيد بالموصفات التالية

الاسم التجاري للمبيد : PESTPHOS

بلد التسجيل : الهند

المواد الفعالة وتركيزها : Aluminium Phosphide 56%

صورة المستحضر : 20859-73-8 :CAS RN

حجم العبوة : 1000,204 جرام

بلد (التسجيل/المنشأ) والشركة المنتجة : INTECH ORGANICS LIMITED - الهند

الشركة المحلية المستوردة : Ecovar Trading LLC

تاريخ إصدار الشهادة : 08-09-2025  
صالحة حتى : 08-09-2030

ملاحظات : المبيد مقيد لجهات حكومية يسمح للمنشأة باستيراد المبيدات بناءً على طلب من الجهات الحكومية في الدولة، بعد التنسيق مع المؤسسة الإمارات للدواء ولا يسمح بتداولها أو استخدامها إلا تحت الإشراف المباشر من قبل هذه الجهات.

وجد مطابقاً لنظام تسجيل المبيدات المتبع لديها وقد أعطيت له هذه الشهادة بناءً على ذلك.

ملاحظات :

- يعاد تقييم المبيد كل خمس سنوات حتى يتم تجديد هذه الشهادة بعد ذلك. تلغى هذه الشهادة في حالة شطب أو سحب المبيد من قبل المنظمات والهيئات العالمية المختصة في تسجيل المبيد أو ثبت للوزارة تدهور المبيد أثناء فترة صلاحيته تحت الظروف البيئية للدولة أو ثبت أن لديه آثار جانبية ضارة

سددت الرسوم 3021.42 درهم

رقم إيصال الشهادة : 10567064381370075732

تاريخ إيصال الشهادة : 08-09-2025

مدير إدارة الشؤون البلدية

رمز التحقق : 308-2003



للتحقق من صحة بيانات هذا  
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أو زيارة موقع الوزارة

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هذا المستند معتمد إلكترونياً ولا يحتاج إلى توقيع أو ختم

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#### تعليمات الاستخدام

صنع المنتج من مادة فوسفيد الألومنيوم بنسبة أكبر أو تساوي ٥١%، وعلى شكل أقراص بحيث يزن القرص الواحد منها ٣,٢ جرام. تتحول هذه الأقراص إلى مادة فوسفيد الألومنيوم عا لية السمية والقابلة للإنشتعال عند تعريضها للحمض أو رطوبة الهواء، يمكن استعمال المنتج للوقاية من آفات التخزين ومكافحةها بفعاليتها.

#### تقنيات وطرق الاستخدام

من حصة الحبوب يقسم المبيد الحشري إلى عبوات صغيرة بحيث تحتوي كل عبوة على ٢٥ قرصاً. ومن ثم توزع تلك العبوات بشكل متساوي على مسافة ١٥ إلى ٢٠ متر، ٢ إلى ٣ سنتيمتر تحت سطح الحبوب يمكن استخدام أنبوب فحصي للطبقات الوسطى.

ك تحديس الحبوب يقسم المبيد الحشري إلى عبوات صغيرة بحيث تحتوي كل عبوة على ٢٥ قرصاً بشكل متساوي على أسطح الكومة والطبقات الوسطى بنسبة ٣ / ٢ للأسطح و ٣ / ١ للطبقات الوسطى.

٣ الكمية اللازمة من المبيد الحشري كمية الكومة + مقدار المساحة.  
عالج البقيا بعد إغلاقها لمدة ٥ إلى ٧ أيام وتعرض للهواء الطلق لمدة ٣ أيام.

#### Direction of Use

The product is made of aluminum phosphide with content  $\geq 56\%$ . One tablet weighs 3.2g. Tablets will turn into highly toxic and combustible aluminum phosphide when they are exposed to acid or air moisture. The product can be used for preventing and controlling storage pests effectively.

#### Usage techniques & methods

1. Bulk Grain: Divide the pesticide into small packages with around 25 tablets each pack, and distribute them evenly with a distance of 1.5 to 2 meters, 20 to 30 centimeters underneath grain surfaces. You may use a probe tube for middle layers.
2. Stack Grain: Divide the pesticide into small packages with around 25 tablets each pack, and distribute them evenly on stack surfaces and middle layers. 3/2 for surfaces and 3/1 for middle layers.
3. Required Amount of Pesticide: Stack amount + Space amount.
4. One can only handle the residue after being sealed for 5 to 7 days, exposed in the air for 3 days.

المحصول أو النطاق	الآفات	المعدلات	طريقة التطبيق
السلع	الخنائفس والسوس المتواجدة في المنتجات المخزنة	٥ - ١٠ أقراص / ١٠٠٠ كغم	تفقيم بالبخار المختوم
المساحات	آفات متنوعة	١ - ٤ أقراص / متر مكعب	تفقيم بالبخار المختوم
الحبوب	الخنائفس والسوس والخنائفس ثاقبة الخشب المتواجدة في الحبوب المخزنة	٣ - ١٠ أقراص / ١٠٠٠ كغم	تفقيم بالبخار المختوم
البذور	الخنائفس والسوس والخنائفس الثاقبة الخشب المتواجدة في البذور المخزنة	٣ - ١٠ أقراص / ١٠٠٠ كغم	تفقيم بالبخار المختوم
Methods of Application	Rates	Pests	Crop or Scope
Sealed Fumigation	5 - 10 Tablets/1000 kg	Beetles and Weevils Found in Stored Products	Goods
Sealed Fumigation	1 - 4 Tablets/Smeter	Various Pests	Space
Sealed Fumigation	3 - 10 Tablets/1000 kg	Stored Grain Beetles, Weevils and Borer	Grain
Sealed Fumigation	3 - 10 Tablets/1000 kg	Stored Seeds Beetles and Borer	Seeds

## المبيد ومقيد الاستخدام بشدة

ليعبه واستخدامه فقط لفنيين مرخصين  
أو من قبل أشخاص تحت إشرافهم المباشر.

### VERY RESTRICTED USE PESTICIDE

For retail sale to and use only by certified Applicators or Persons under their direct supervision.

# بيستفوس

أقراص فوسفيد الألمنيوم ٥٦%

## PESTPHOS

Aluminium Phosphide  
56% Tablets

### مبيد حشري تبخير

### لمنع ومكافحة آفات المخازن

Fumigation Insecticide for preventing  
and controlling storage pests

#### ACTIVE INGREDIENTS:

Aluminium Phosphide	56%
Inert Ingredients	44%
Total	100%

لا يستخدم هذا المبيد في المباني السكنية والشقق  
Not for use in Residential buildings and Flats

رقم التسجيل بوزارة التغير المناخي والبيئة  
Moccae Registration Number

DXB-AD-140-1567622

Australian APVMA Registration Number  
رقم التسجيل هيئة معيدات الآفات والأدوية البيطرية الأسترالية

88571

Manufacturing Company  
Intech Organics Limited,  
Country of origin: India

Local Distributor  
Tel: 97143663302  
www.ecovargroup.com  
Dubai, UAE

شديد السمية  
VERY TOXIC

يحفظ بعيداً عن متناول الأطفال  
Keep out of Reach of Children

Quantity: 1 Kg  
Batch No:  
Production Date:  
Valid for 3 years from production date

الكمية: ١ كغ

رقم الشحنة:

تاريخ الإنتاج:

صالحة لمدة ٣ سنوات من تاريخ الإنتاج

#### البيانات التحذيرية

لا تجنب استنشاق الغبار أو الغاز.

لا تجنب فتح العبوة باستخدام آلة معدنية حادة.

٣ يجب ارتداء ثياب واقية كاملة كقفازات اليد وقناع التنفس موصول بعلبة صغيرة للتشريح أثناء التعامل مع المنتج.

٤ يجب استخدام الشروط الكاشفة قبل دخول المباني ومعالجتها.

٥ تجنب أكل أو شرب أو مضغ أو التدخين أثناء عملية الاستخدام.

ويجب على من يتكلمون من ثقب في طبلة الأذن عدم التعامل مع المنتج.

المضاد السمومي(التبريق).

لم يتم التعرف على مضاد سموي (تبريق) محدد يجب معالجة الأعراض.

#### PRECAUTIONARY STATEMENTS

1. Do not inhale dust or the gas.
2. Do not open containers with sharp metallic device.
3. Wear full protective clothing like hand gloves and respirator with reaction type canister must be worn while handling
4. Defector strips be used before entering the treated premises.
5. Do not eat, drink, chew anything or smoke while using and persons with punctured ear drums should not handle the product.

#### Antidote

No specific antidote is known. Treat symptomatically

#### الإسعافات الأولية:

لا في حال حدوث ابتلاع فحاول أن تتقيأ من خلال دغدغة مؤخرة الحلق وتكرار العملية حتي حدوث القيء.

لا تحاول استعمل الشخص المصاب إن تقيأ في حال كان فاقداً للوعي.

ك في حال تلوث الثياب والجلد، يجب خلغ الثياب وغسل الجلد الملوث بالماء و الصابون.

٣ في حال تلوث العينين، يجب غسلهما بكمية كبيرة من المطبول الملحي لتتراوح بين ١٠ - ١٥ دقيقة.

٤ في حال الاستنشاق يجب تعريض المصاب للهواء الطلق.

#### FIRST AID:

1. If swallowed induce vomiting by trickling the back of throat. Repeat it until the vomiting is clear. Do not induce vomiting if the patient is unconscious.
2. If clothing and skin are contaminated remove the clothes and wash the contaminated skin with copious amount of soap and water.
3. If eyes are contaminated flush with plenty of saline clear water for about 15-10 minute
4. If inhaled remove the patient to fresh air.

#### التخزين والتخلص من العبوات الفارغة:

قم بالتخزين في العبوة الأصلية المغلقة وفي منطقة باردة وجيدة التهوية. لا تقم بتخزين المنتج لفترات طويلة تحت أشعة الشمس المباشرة. قم بغسل العبوة لثلاث مرات أو من المفضل غسل العبوة بماء بضغط عالي قبل التخلص منها. وقم بغسل خزان الرش بشكل إضافي. لا تقم بالتخلص من المواد الكيميائية المركزة في الموقع. وفي حال إعادة التدوير قم بإعادة وضع الغطاء وأعدم العبوات النظيفة إلى جهة إعادة التدوير. ونقاط التجميع المخصصة. وفي حال عدم القيام بإعادة التدوير قم بكسر أو تحطيم أو ثقب وتسليم العبوة الفارغة إلى منشأة التعامل مع النفايات المعتمدة. وفي حال عدم وجود منشأة تتعامل مع النفايات معتمدة، فعندها قم بدفن العبوة الفارغة على عمق ٥٠٠ ملم من سطح الأرض في حفرة تصريف مخصصة ومهيمرة بشكل محدد لذلك الغرض مكان بعيد عن المجاري والقنوات المائية. النباتات والمزروعات المفيدة وجذور الأشجار وذلك بما يتوافق مع النوائح الحكومية والإقليمية والمحلية. لا تقم بحرق العبوات الفارغة أو المنتج

#### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight. Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of unaltered chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

#### الضمان:

تضمن الشركة المنتجة ثبات المواصفات الكيميائية والفيزيائية للمبيد وسلامة عبواته الأصلية في التخزين العادي طالبة فترة صلاحيته تحت ظروف دولة الإمارات العربية المتحدة وحسب طريقة التخزين المشار إليها. يقوم المصنع والموزع بإعلاق الحوائط الأصلية بختم الزمان بالتسليم وفقاً لشروط الشركة. يقوم المستهلك بالشراء وهو على معرفة كاملة أن الشركة مسؤولة عن استبدال المنتج في حالة وجود خلل به.

The manufacturer and distributor guarantee the contents of the original container are tightly dosed and the warranty seal intact according to the terms of the label and leaflet. The company limits it's liability in the sale of this product to the replacement thereof if its found defective



# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

Product Name: PESTPHOS

### 1. IDENTIFICATION OF THE SUBSTANCE & THE COMPANY

**CHEMICAL NAME:** ALUMINIUM PHOSPHIDE  
**SYNONYM(S):** Aluminium(III) phosphide  
**MOLECULAR WEIGHT** 57.95  
**COMPANY**  
Intech Organics Ltd, 543-D, pace city-II, Sector 37, Gurgaon 122001, India

**Emergency telephone number:** + 91-124-4407000

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components CAS	CAS NO	Weight %
Aluminium phosphide	20859-73-8	56%
Other Ingredients		44%

### 3. HAZARDS IDENTIFICATION

**General;** Aluminium phosphide is very dangerous and can kill if swallowed. The product release phosphine gas slowly in moist air and immediately, if wet. It also releases ammonia, which is toxic by inhalation and can burn mucous membranes. Mild exposure causes malaise, ringing in the ears, fatigue, nausea and pressure in the chest, which is relieved by removal to fresh air. Moderate poisoning will cause weakness, vomiting, pain above the stomach, chest pain, diarrhea and difficulty breathing. In severe poisoning signs may occur within a few hours to several days resulting in pulmonary edema and may lead to dizziness, cyanosis, unconsciousness and death

**EYE CONTACT** Will irritate the eyes

**SKIN CONTACT** may cause skin burns rashes and skin itching

**INHALATION** Extremely toxic, headache, fatigue, nausea, dizziness, tremors, restlessness.

**INGESTION** Do not give anything by mouth if patient is unconscious. Seek medical attention.

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Issued Date	01.06.2016		Review Date	01.12.2017



# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

Product Name: PESTPHOS

### 4. FIRST-AID MEASURES

- General** Aluminium phosphide is very dangerous and can kill if swallowed. The product release phosphine gas slowly in moist air and immediately, if wet. It also releases ammonia, which is toxic by inhalation and can burn mucous membranes. Mild exposure causes malaise, ringing in the ears, fatigue, nausea and pressure in the chest, which is relieved by removal to fresh air. Moderate poisoning will cause weakness, vomiting, pain above the stomach, chest pain, diarrhea and difficulty breathing. In severe poisoning signs may occur within a few hours to several days resulting in pulmonary edema and may lead to dizziness, cyanosis, unconsciousness and death
- Inhalation** Do not inhale dust or gas from product. If inhaled remove patient to fresh air. Keep rested and warm and seek medical assistance. If patient is not breathing resuscitate using oxy-viva or one-way mask. Do not give mouth-to-mouth resuscitation
- Skin contact** Brush or shake material off clothes in a well ventilated area. Allow cloths to aerate in a ventilated area prior to laundering. Do not leave contaminated clothing in occupied and or confined areas such as cars. If material is on skin, wash off the skin with soap and water.
- Eye contact** Will irritate the eyes. If material is in the eye, hold open and flush with water for at least 15 minutes.
- Ingestion** If swallowed seek medical attention. Give one or two glasses of water and induce vomiting, preferably using Ipecac Syrup APF. Do not give anything by mouth if patient is unconscious. Seek medical attention.

**Advice to doctor:** - If a patient has swallowed Aluminium phosphide ,he/she may be emitting toxic phosphine gas. First aid and medical staff should take precautions against exposure to phosphine emitted by such a patient. Do not administer mouth-to-mouth resuscitation - use other forms of resuscitation.

### 5. FIRE - FIGHTING MEASURES

**Extinguishing** Media Suffocate flames with sand, carbon dioxide or dry extinguishing powder. Do NOT use water on metal phosphide fires.

Fire and Explosion Hazards. Flammable. Keep away from naked flames. Avoid contact with water and strong oxidizing agents' Hazardous polymerization will not occur

#### FIRE FIGHTING PROCEDURE

Special firefighting procedures: Wear full protective clothing and self-contained breathing apparatus. Contain firefighting water.

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# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

Product Name: PESTPHOS

Hazardous Combustion Products      Fires involving phosphine or metal phosphides will produce phosphoric acid.  
 $2PH_3 + 4O_2 \rightarrow 3H_2O + P_2O_5 \rightarrow 2H_3PO_4$

### 6. ACCIDENTAL RELEASE MEASURES

**Accidental Release:** Use the personal protective equipment listed in Section 8. If possible, dispose of spilled Aluminium Phosphide by use according to the label. Freshly spilled material which has not been contaminated with water or foreign matter may be replaced into original containers. Punctured containers may be temporarily repaired using aluminium tape. If the age of the spill is unknown, or the material has been contaminated with soil, debris, water etc., gather up the spillage into small open buckets having a capacity no larger than 4.5 litres. Do not add more than about 1 to 1.5 kg to a bucket. If on-site wet deactivation is not feasible, transport the uncovered buckets in open vehicles to a suitable area. Wear gloves when handling Aluminium Phosphide. Respiratory protection is required during clean-up of spilled material. If the concentration of hydrogen phosphide is above 15ppm, or is unknown, approved positive pressure, supplied air breathing apparatus must be worn. Small amounts of spillage, from about 4 - 8 kg may be spread out over the ground in an open area to be deactivated by atmospheric moisture. Alternatively the material may be wet deactivated as described in Section 13

### 7. HANDLING AND STORAGE

Safe Handling : Keep container tightly closed. Handle according to label instructions.

**STORAGE** Store in the closed, original container in a cool, dry, well-ventilated locked area out of the reach of children and unauthorized persons and away from all dwellings. Keep away from water and liquids. Water and many liquids cause immediate release of phosphine from product. The product should never be stored under conditions which would allow the gas concentrations to reach the lower level of flammability which is 1.79% by volume (12,900 parts per million). Never confine the product in a small gas-proof enclosure such as a plastic bag. Such confinement could cause the gas concentrations to reach the lower flammability level. 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. Store below 30o C. This material is a Schedule 7 Dangerous Poison and must be stored, handled and used in accordance with the relevant regulations.

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# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

Product Name: PESTPHOS

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMITS:

COMPONENT	OSHA PEL	ACGIH TLV		IDHL
	(ppm)	TWA (ppm)	STEL (ppm)	(ppm)
Hydrogen phosphide	0.3	0.3	1.0	200
Ammonia	50	25	35	500
Carbon dioxide	5000	5000	30000	50000

#### VENTILATION REQUIREMENTS

Open product container in the open air. Local ventilation is generally adequate to reduce hydrogen phosphide levels in fumigated premises to below the TLV/TWA. Exhaust fans may be used to speed the aeration of silos, warehouses, ships hold, containers, etc.

#### PERSONAL PROTECTIVE EQUIPMENT:

##### - RESPIRATORY PROTECTION

A full-face respirator with an ABEK canister must be worn at concentrations up to 15 ppm or when dispensing tablets by hand. At levels above this, and/or when hydrogen phosphide concentration is unknown, a positive pressure, supplied air respirator must be worn. In all cases ensure that the respirator provides good facial fit.

##### - EYE PROTECTION

Eye Protection None required.

##### - SKIN AND BODY PROTECTION

Do not allow product to come in contact with skin. When opening the container or using the product, wear elbow length PVC gloves. If product on skin, brush off any excess material and wash area with soap and water. Wash hands before breaks and at end of work.

#### HYGIENE MEASURES

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# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

**Product Name:** PESTPHOS

**General Advice** When using this material, do not eat, drink or smoke. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking  
Avoid contact with eyes or skin. Clean working clothes and protective equipment with soap and water. When space fumigating in enclosed areas (eg rooms, warehouses) wear protective clothing and respiratory protection as specified above. Wash hands after use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** The active material is contained in tablets  
**Colour** Aluminium phosphide has a greenish-grey colour.  
**Odour** The phosphine gas generated by the product has an odour described as similar to garlic, carbide, or decaying fish.  
**Melting Point** Aluminium phosphide: >1000o C Phosphine gas: -133o C  
**Boiling Point** Aluminium phosphide: >1000o C Phosphine gas: -87.7o C  
**Specific Gravity** Aluminium phosphide: 2.55  
Phosphine: 1.17 (relative to air =1)  
**Vapour Pressure** Aluminium phosphide: 0 mmHg  
Phosphine gas: 40 mmHg @ -129.4o C  
Ammonium Carbonate: 100 mmHg @ 26.7o C  
**Viscosity** Not applicable  
**Solubility in Water** Aluminium phosphide: Insoluble,  
reacts Phosphine gas: 26 cc in 100 mL water at 17o C  
Ammonium Carbonate: Very soluble, reacts  
**pH** 6.0-7.5 (at 10% water)  
**Flash Point** Aluminium phosphide and the formulated product (Aluminium Phosphide ) are not in themselves flammable. Ammonia and carbon dioxide are liberated at the same time as phosphine to reduce the potential for self-ignition  
**Ignition Temperature** Not available  
**Explosive Limits** The product in itself is not explosive, however see above regarding phosphine gas. Phosphine LEL 1.8% w/v, UEL not known.

### 10. STABILITY AND REACTIVITY

**Chemical Stability** Aluminium Phosphide is stable to most chemical reactions, except for hydrolysis. It will react with moist air, liquid water, acids and some other

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# INTECH ORGANICS LTD

## MATERIAL SAFETY DATA SHEET

**Product Name:** PESTPHOS

Conditions to Avoid	liquids to produce toxic and flammable phosphine gas. Avoid contact with water and oxidizing agents. Keep away from naked flame – forms toxic gas. Keep away from damp and moisture. Contact with water can cause the immediate release of phosphine gas. Avoid hydrogen phosphide-air mixtures at concentrations above the lower explosive limit of 1.8% v/v as these may ignite spontaneously. Never allow the buildup of hydrogen phosphide to exceed explosive concentrations.
Incompatible Materials	Water, acids.
Hazardous Decomposition	Fires involving phosphine or metal phosphides will produce phosphoric acid. $2PH_3 + 4O_2 \rightarrow 3H_2O + P_2O_5 \rightarrow 2H_3PO_4$
Hazardous Reactions	The prime hazardous reaction is the reaction with water or moisture to produce toxic phosphine gas (hydrogen phosphide). Hydrogen phosphide gas may react with certain metals and cause corrosion, especially at higher temperatures and relative humidity. Metals such as copper, brass, and other copper alloys, and precious metals such as gold and silver are susceptible to corrosion by phosphine. Small electric motors, smoke detectors, brass sprinkler heads, batteries and battery chargers, forklifts, temperature monitoring systems, switching gears, communication devices, computers, calculators and other electrical equipment may be damaged by this gas. Phosphine will also react with certain metallic salts and therefore sensitive items such as photographic film, some inorganic pigments, etc., should not be exposed.

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Aluminium phosphide is a highly acutely toxic substance. Acute oral LD50 of the formulation is 11.5 mg/kg. Hydrogen phosphide (phosphine) gas LC50 is about 190 ppm for a 1-hour inhalation exposure.
Local Effects	Aluminium phosphide and phosphine gases are not absorbed dermally. Primary routes of exposure are inhalation and ingestion.
Reproductive Effects	None of the ingredients of the formulation has been shown to produce reproductive or teratogenic effects.
Mutagenicity	None of the ingredients of the formulation has been shown to produce mutagenic effects.
Carcinogenic	Effects None of the ingredients in the formulation has been shown to have carcinogenic potential.
Health Hazard Information	Aluminium phosphide is a highly acutely toxic substance in its own right. In contact with moisture in the air (or more rapidly in contact with water) it

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releases hydrogen phosphide gas, ammonia and carbon dioxide. Aluminium phosphide is very toxic by ingestion causing the release of hydrogen phosphide in the body. Hydrogen phosphide released from Aluminium phosphide is very toxic by inhalation. Care must be taken during first aid and treatment that hydrogen phosphide released from the poisoned individual does not injure medical personnel

### 12. ECOLOGICAL INFORMATION

Octanol/Water Partition Co-efficient : Not available.

Eco toxicity Not available. This product is highly toxic to wildlife. Do not contaminate streams, rivers or waterways with the chemical or used containers.

### 13. DISPOSAL CONSIDERATIONS

**After Intended Use** After fumigation with product, remove spent tablets and ensure residual phosphide is destroyed before disposal, eg. by swamping with dilute acid or soapy water in open air until bubbling ceases. Triple rinse the containers with soapy water to ensure residual phosphide is destroyed. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the containers at a local authority landfill, bury the containers at a depth of 500 mm or more at a licensed landfill. Do not burn empty containers or the product.

**After spill or accident:** If possible, dispose of spilled Aluminium Phosphide by using according to the label. Freshly spilled material, which has not been contaminated with water or foreign matter, may be replaced into original containers. Punctured containers may be temporarily repaired using Aluminium tape. If the age of the spill is unknown, or the material has been contaminated with soil, debris, water etc., gather up the spillage into small open buckets having a capacity no larger than 4.5 liters. Do not add more than about 1 to 1.5 kg to a bucket. If on-site wet deactivation is not feasible, transport the uncovered buckets in open vehicles to a suitable area. Wear gloves when handling Aluminium Phosphide. Respiratory protection as specified in Section 8 is required during clean-up of spilled material. If the concentration of hydrogen phosphide is unknown, positive pressure, supplied air breathing apparatus must be worn. Small amounts of spillage, from about 4 - 8 kg may be spread out over the ground in an open area to be deactivated by atmospheric moisture. Alternatively, the material may be wet deactivated as described below. Wet deactivation: Deactivating solution is prepared by adding a low sudsing detergent to water in a drum or other suitable container. A 2% solution or 4 cups of detergent to 130 liters is suggested. The container should be filled with deactivating solution to

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within a few centimeters of the top. The Aluminium Phosphide is added slowly to the deactivating solution and stirred so as to thoroughly wet all the Aluminium Phosphide. This should be carried out in the open air and respiratory protection may be required. No more than 20-25 kg of Aluminium Phosphide, Tablet/Pelets should be added to 70 liters of solution Allow the mixture to stand, with occasional stirring, for about 36 hours. The resultant slurry will then be safe for disposal. Dispose of the slurry or deactivated material, with or without preliminary decanting, at a landfill or other suitable site approved by local authorities.

### 14. TRANSPORTATION INFORMATION

**UN No.** 3048

**IMO** Proper shipping name: ALUMINIUM PHOSPHIDE PESTICIDE

Class: Class 6.1

Packaging Group: I

Hazchem Code: 4WE

### 15. REGULATORY INFORMATION

Poisons Schedule: Schedule 7 – Dangerous Poison

APVMA Registration The product is registered by the APVMA.

Registration Number 46948

Labelling All necessary directions, precautions and warnings for normal use of the product are included on the product label.

### 16. OTHER INFORMATION

#### Health, Safety & Environment Policy

We endeavor to ensure that our operations and products meet the needs of the present global community without compromising in quality of product. We accept that the success of our business is dependent on the supply of products and services that will benefit society whilst ensuring human safety and protection of the environment and natural resources, We ensure healthy and safe work environment for employees and whilst maintaining high production standards of operation

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**END OF SAFETY DATA SHEET**

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