

# SAFETY DATA SHEET

PRODUCT NAME **Imtrade DeadMouse Zinc Phosphide Bait**

APVMA Product Code: 66642

## 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** **IMTRADE AUSTRALIA PTY LTD**  
**Address** 17 Ocean Street, Kwinana, Western Australia, AUSTRALIA, 6167  
**Telephone** 1800 171 799  
**Fax** 1800 171 788  
**Emergency** In a Transport Emergency Dial 000 – Police or Fire Brigade  
**Web site** <http://www.imtrade.com.au>  
**Product Use:** For the control of heavy infestations of mice in agricultural situations.  
**Creation Date:** **July, 2011**  
**This version issued:** **May, 2017** and is valid for 5 years from this date.  
**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**  
**Product type:** Metal phosphide which, on contact with water liberates toxic phosphine gas.

## SECTION 2 - HAZARDS IDENTIFICATION

### Statement of Hazardous Nature

This product is classified as: T, Toxic. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

**SUSMP Classification:** S7

**ADG Classification:** None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated



### GHS Signal word: DANGER.

Substances and Mixtures which, in contact with water, Emit Flammable Gases - Category 1

Acute Toxicity Oral - Category 3

Hazardous to aquatic Environment Short Term/Chronic - Category 1

### HAZARD STATEMENTS:

H260: In contact with water releases flammable gases which may ignite spontaneously.

H301: Toxic if swallowed.

H410: Very toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS:

#### PREVENTION

P102: Keep out of reach of children.

P232: Protect from moisture.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

#### RESPONSE

P337: If eye irritation persists: seek medical attention.

P353: Rinse skin or shower with water.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P309+P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P391: Collect spillage.

P370+P378: Not combustible. Use extinguishing media suited to burning materials (NOT WATER).

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**STORAGE**

P405: Store locked up.

P402+P404: Store in a dry place. Store in a closed container.

**DISPOSAL**

P501: Dispose of contents and containers as specified on the registered label.

**Emergency Overview****Physical Description & Colour:** Dark grey to black coloured wheat grains.**Odour:** Characteristic garlic-like odour.**Major Health Hazards:** toxic if swallowed. Contact with water liberates toxic, highly flammable phosphine gas.**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS No	Conc,%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Zinc phosphide *	1314-84-7	25g/kg	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set
Phosphine *			0.42	1.4

\* In the presence of water, water solutions or moist air, zinc phosphide forms toxic and flammable phosphine gas.

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

**SECTION 4 - FIRST AID MEASURES****General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** If inhalation has occurred, and poisoning has occurred, seek medical advice.**Skin Contact:** Gently brush away excess particles. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until product is removed.**Eye Contact:** Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.**Ingestion:** If swallowed, take patient to a well ventilated area to minimise chances of build-up of phosphine gas. Do NOT induce vomiting; rinse mouth thoroughly with water and contact a Poisons Information Centre, or call a doctor at once. Give activated charcoal if instructed.**SECTION 5 - FIRE FIGHTING MEASURES****Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Suitable extinguishing media are carbon dioxide, dry chemical, foam. DO NOT use water.**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.**Flash point:** Combustible solid.**Upper Flammability Limit:** No data.**Lower Flammability Limit:** No data.**Autoignition temperature:** No data.**Flammability Class:** Combustible solid.**SECTION 6 - ACCIDENTAL RELEASE MEASURES****Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses.

Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, Viton. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant

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chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable Dust Mask. Use a P1 mask, designed for use against mechanically generated particles eg silica & asbestos.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After mechanically cleaning spills, wash area from a safe distance preventing runoff from entering drains. Evacuate area of spill before washing and do not return if odour of garlic is apparent as this signals the presence of phosphine gas. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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## SECTION 7 - HANDLING AND STORAGE

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**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water or moist air. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

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## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

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The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

<b>SWA Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Phosphine gas	0.42	1.4

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC, Viton.

**Respirator:** When opening the container and using baits, wear a full face respirator with combined dust and gas cartridge or supplied air respirator.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

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<b>Physical Description &amp; colour:</b>	Dark grey to black coloured wheat grains.
<b>Odour:</b>	Characteristic garlic-like odour.
<b>Boiling Point:</b>	Not applicable.
<b>Freezing/Melting Point:</b>	Decomposes before melting.
<b>Volatiles:</b>	Nil at 100°C.
<b>Vapour Pressure:</b>	Nil at normal ambient temperatures.
<b>Vapour Density:</b>	Not applicable.
<b>Specific Gravity:</b>	No data.
<b>Water Solubility:</b>	Reacts with water to liberate toxic, flammable phosphine gas.
<b>pH:</b>	No data.
<b>Volatility:</b>	Nil at normal ambient temperatures.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	Not applicable.

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**Coeff Oil/water Distribution:** No data  
**Viscosity:** Not applicable.  
**Autoignition temp:** No data.

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## SECTION 10 - STABILITY AND REACTIVITY

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**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated.

**Incompatibilities:** water, acids, any other substance containing water or acids will react with product to generate phosphine gas.

**Fire Decomposition:** No specific data. Based on composition of proteins and fats, the following might be expected: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds; also water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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### Local Effects:

**Target Organs:** There is no data to hand indicating any particular target organs.

In the presence of water or moist air, phosphine, which is a very toxic and flammable gas, is slowly generated. The chief effects are central nervous system depression and lung irritation. Inhalation can cause coma and may lead to death within 48 hours.

Phosphine generated in the gastrointestinal tract is readily absorbed in to the bloodstream, and it is readily absorbed through the lung epithelium. The rodent 4-hour inhalation LC<sub>50</sub> for phosphine gas (the product of phosphide reaction with water) is widely reported as 15 mg/m<sup>3</sup> (15 µg/L, or approximately 10.7 ppm). Recent study indicates that the rodent 4-hour inhalation LC<sub>50</sub> may exceed 15 mg/m<sup>3</sup>.

Zinc phosphide and phosphine is not carcinogenic or mutagenic and does not bioaccumulate.

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### Classification of Hazardous Ingredients

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Ingredient	Risk Phrases
Zinc Phosphide	>=1%Conc<7%: T; R25
<ul style="list-style-type: none"> <li>• Substance or mixture which in contact with water emits Flammable gas - category 1</li> <li>• Acute toxicity - category 2</li> <li>• Hazardous to the aquatic environment (acute) - category 1</li> <li>• Hazardous to the aquatic environment (chronic) - category 1</li> </ul>	
Phosphine	Conc>=10%: T+; R26, R34
	>=7%Conc<10%: T+; R26; R36/38
	>=5%Conc<7%: T; R23; R36/38
	>=1%Conc<5%: T; R23
	>=0.1%Conc<1%: Xn; R20

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### Potential Health Effects

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In the presence of water or moist air, phosphine, which is a very toxic and flammable gas, is slowly generated. The chief effects are central nervous system depression and lung irritation. Inhalation can cause coma and may lead to death within 48 hours.

Phosphine generated in the gastrointestinal tract is readily absorbed in to the bloodstream, and it is readily absorbed through the lung epithelium. The rodent 4-hour inhalation LC<sub>50</sub> for phosphine gas (the product of phosphide reaction with water) is widely reported as 15 mg/m<sup>3</sup> (15 µg/L, or approximately 10.7 ppm). Recent study indicates that the rodent 4-hour inhalation LC<sub>50</sub> may exceed 15 mg/m<sup>3</sup>.

### Inhalation:

**Short Term Exposure:** In the presence of water, this product liberates toxic phosphine gas.

**Long Term Exposure:** No data for health effects associated with long term inhalation.

### Skin Contact:

**Short Term Exposure:** Contact with skin moisture may liberate toxic phosphine gas.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

### Eye Contact:

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**Short Term Exposure:** This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

#### **Ingestion:**

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is toxic as contact with moisture (as for example in the mouth) will liberate toxic phosphine gas.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

#### **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. The grain in this product is biodegradable.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

#### **SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

#### **SECTION 15 - REGULATORY INFORMATION**

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

The following ingredient: Zinc phosphide, is mentioned in the SUSMP.

#### **SECTION 16 - OTHER INFORMATION**

**This SDS contains only safety-related information. For other data see product literature.**

#### **Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

This SDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact Imtrade Australia Pty Ltd, or in the event of an emergency, 000. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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End of Report

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