

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: PESTMASTER Zinc Phosphide Mouse Killer Pellets

Synonyms:

Use: Not suitable for domestic use. Do not apply on bare ground or in other areas with minimal vegetation. Do not apply if heavy rainfall is imminent. Do not apply to the outer 50m of crop or within 50m of native vegetation. Do not harvest crops for 14 days after application. Do not graze, cut food for stock, or allow stock or pets to have access 14 days after application. See product label for further use restrictions as per State or Territory.

Supplier: Triox Pty Ltd
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Moonee Ponds VIC 3039

Telephone: + 613 9372 9977
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Emergency telephone number: Poisons Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

Based on available information, this material is classified as hazardous according to criteria of SWA Australia. HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

SUSMP Classification: S7

Classification of the substance or mixture:

Acute Oral Toxicity – Category 4

The following health hazard categories fall outside the scope of the Workplace Health & Safety Regulations:

Acute Aquatic Toxicity – Category 1

Chronic Aquatic Toxicity – Category 1

This material is a Scheduled Poison S7 and must be stored, maintained and used in accordance with the relevant regulations.

SIGNAL WORD: WARNING

Hazard Statement(s):

H302 Harmful if swallowed
AUH029/031 Contact with water or acid liberates toxic gas.

Precautionary Statement(s):

Prevention:

P264 Wash hands, arms and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
P330 Rinse mouth.

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

Disposal:

P501 Dispose of contents/container in accordance with Federal, State and Local Government regulations.

Overview

Physical Description & Colour: Dark grey colour pellets

Odour: Decomposes to liberate phosphine gas which has a garlic like odour.

Major Health Hazards: Harmful if swallowed. This product will react to stomach acids to liberate phosphine gas which is toxic.

Potential Health Effects

Inhalation

Short term exposure: Inhalation of phosphine gas may cause vomiting, diarrhoea, cyanosis, rapid pulse, fever and shock.

Skin contact

Short term exposure: Avoid contact with the skin. Product is not known to cause irritation to the skin.

Eye contact

Short term exposure: Avoid contact with the eyes. Product is not known to cause irritation to the eyes.

Ingestion

Short term exposure: Poisonous if swallowed. This product will react to stomach acids to liberate phosphine gas which is toxic.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	ENTITY CAS NO.	PROPORTION
Zinc Phosphide (trizinc diphosphide)	1314-84-7	2.5%
Other ingredients (not deemed to be hazardous)	-	Up to 100%
		<hr/> 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126). Have this SDS with you when you call. Speed in treatment is essential.

Inhalation: Remove from site of exposure to fresh air. Apply artificial respiration. Transport patient to a doctor or hospital immediately.

Skin Contact: Wash skin for at least 15 minutes with soap and water. Remove contaminated footwear and clothing.

Eye Contact: Hold eyes open and rinse with water for 15 minutes.

Ingestion: Wash mouth with water. Do not give mouth to mouth resuscitation if swallowed. To protect rescuer, use air-viva, oxy-viva or one way mask. Resuscitate in well ventilated area.

Notes to physician: Treat symptomatically. If poisoning occurs, bed rest for 1-2 days is recommended. Poisoning is not chronic and the symptoms should disappear quickly. Symptoms can include nausea, abdominal pain, excitement, agitation, chills and tightness in chest. Symptoms caused by inhalation may include vomiting, diarrhoea, cyanosis, rapid pulse, fever and shock.

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

5. FIRE-FIGHTING MEASURES

Hazards from combustion: Oxides of phosphorous and oxides of zinc and hydrogen phosphide(phosphine) may be formed in a fire situation.

Fire and explosion hazards: This product is not readily flammable. If there is a build up of phosphine gas it may ignite when in contact with atmospheric oxygen if the concentration exceed 1.79%. While kept dry the product is stable for long periods of time and the fire/explosion risk is minimal.

Suitable extinguishing media: Use carbon dioxide or extinguishing powder. Do not use water. Move containers from the area if possible and if safe to do so. Fight fire in early stage only if safe to do so.

Special protective equipment: Wear respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Wear protective equipment to prevent skin and eye contamination. Collect and seal in properly labelled containers for re-use or disposal. Wash areas after product has been cleaned up with copious quantities of soapy water. Ensure area is well ventilated.

If in confined spaces ensure breathing apparatus that will protect against toxic gas.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Check section 8 of this MSDS for details of personal protective measures to be undertaken in handling this product.

Storage: Store in original containers in a safe place. Keep containers closed when not in use - check regularly for spills. Containers which have held bait should not be used for any other purpose.

This material is a Scheduled Poison S7 and must be stored, maintained and used in accordance with the relevant regulations. Refer to label instructions on pack. Only open containers in well ventilated spaces.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However, Supplier recommended Hygiene Standard:

SWA Exposure Limits TWA(mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product. However the product may evolve phosphine gas which presents a serious toxic risk. The TWA for phosphine gas is 0.42 mg/cubic metre (=0.3 ppm).

The recommended hygiene standard (TWA) is the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

The short term exposure limit (STEL) for phosphine gas is 1.4mg/cubic metre (=1.0 ppm). The STEL should not be exceeded for more than 15 minutes and which should not be equalled on more than 4 occasions per day. There should be at least 60 minutes between successive exposures at the STEL.

These Hygiene Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering measures: Use only in well ventilated areas. Formulation increases stability of product.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (S).

MANUFACTURE, PACKAGING AND TRANSPORT: Avoid skin and eye contact. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet.

PREPARATION AND USE OF PRODUCT: When using and after use do not touch the bait, use gloves when dispensing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Dark grey pellets. On release of phosphine gas can emit a mild garlic odour.

Solubility in water: Decomposes to liberate toxic and flammable phosphine gas.

Specific Gravity (20 C)	: N Av	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N App	Boiling Point (C)	: N Av
Vapour Pressure (20 C)	: N App	Decomp. Point (C)	: N Av
Flash Point (C)	: N App	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH	: N Av
Autoignition Temp (C)	: N Av	Viscosity	: N App
% Volatile by volume	: N Av	Evaporation Rate	: N App
Solubility in water(17 C)	: Negligible	(n-Butyl acetate=1)	

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability: Stable for at least 2 years under ambient storage conditions.

Incompatible materials: Exposure to water and acids can liberate toxic and flammable phosphine gas.

Hazardous decomposition products: Phosphine gas.

Hazardous reactions: Phosphine gas is highly flammable and toxic.

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Inhalation of phosphine gas may cause vomiting, diarrhoea, cyanosis, rapid pulse, fever and shock. Phosphine gas is rapidly fatal at 2000ppm. Death can occur after ½ - 1 hour at 400-600ppm, no serious effects after ½ - 1h at levels of 7ppm.

Skin contact: Avoid contact with skin. Product is not known to cause irritation to skin.

Eye contact: Avoid contact with eyes. Product is not known to cause irritation to eyes.

Ingestion: Poisonous if swallowed. Adult deaths have been caused by oral doses of 55-70mg/kg though some individuals have survived acute doses of up to 350-1400mg/kg if vomiting occurred early and exposure to phosphine gas was limited.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Dangerous for the Environment: very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Do not contaminate streams, rivers or waterways with the chemical or used containers.

Persistence and degradability: The bait degrades over time in the environment due to the effects of sunlight and rainfall.

Does not bioaccumulate. Low risk of secondary poisoning.

13. DISPOSAL CONSIDERATIONS

Dispose of used containers by crushing and burial below one meter in a disposal pit specifically marked and set up for this purpose, clear of waterways, vegetation and roots. Excess or unused bait must be buried below one meter. Empty containers and product must not be burned.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): S7

TRIOX Pty Ltd

Safety Data Sheet – PESTMASTER Zinc Phosphide Mouse Killer Pellets

16. OTHER INFORMATION

This Safety Data Sheet has been prepared by Triox Pty Ltd.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Triox Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.