

SAFETY DATA SHEET



PCT International Pty Ltd

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Classified as non-hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Surefire Zinc Phosphide Mouse Bait
Product Code: none
Product Use: For the control of mice in agricultural situations.
Poison Schedule: S7
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055

Emergency telephone No: 1800 630 877

Other Information: This SDS describes, to the best of our knowledge, the properties of the product as supplied ready-to-use.

SDS Revision Date: 28th June 2013

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Grain Bait

Ingredients	CAS NO.	Concentration
Zinc Phosphide	1314-84-7	25g/Kg
Other ingredients not considered to be hazardous		to 100%

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3. HAZARDS IDENTIFICATION

Emergency Overview Hazardous substance ; Non-dangerous goods ; Harmful to aquatic organisms.

Hazard description: T+ Very toxic; F Highly flammable

Information pertaining to particular dangers for man and environment

R 15/29 Contact with water liberates toxic, extremely flammable gas. R 28 Very toxic if swallowed. R 32 Contact with acids liberates very toxic gas.

Classification system: HMIS ratings (scale 0-4); (Hazardous Materials Identification System); Health (acute effects) = 3; Flammability = 2; Reactivity = 2

4. FIRST AID MEASURES

General information: Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; immediately call for medical help. Seek immediate medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water for safety reasons. Unsuitable extinguishing agents- Water. Special hazards caused by the material- its by-products of combustion and /or resulting gases. In case of fire, the following can be released: Hydrogen phosphide (Phosphine) Phosphorus oxides.

Protective equipment: Wear self-contained breathing apparatus. Wear fully protective impervious suit.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills of bait may be cleaned up by sweeping grain into dry containers for disposal. Contaminated areas may be made safe, after removal of grain, by washing with copious quantities of soapy water. Staff involved in clean-up should wear gloves and protective clothing and ensure that there is adequate fresh air ventilation. If in confined spaces and the bait is in contact with moisture or acids, may cause the release of phosphine gas- in this situation, staff involved in clean up must wear protective full face gas masks and filter cartridges that protect against toxic gas or wear supplied air respirators. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Advice on safe

Handling: Do not inhale vapour. Avoid contact with eyes and skin. Do not open containers indoors or in confined spaces and allow good ventilation in working areas. When opening the container and using the product, wear elbow-length PVC gloves. Wash hands after use, and after each day's use wash gloves.

Storage information: Keep product in the original container, tightly closed, in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers. Store away from acids, water and any sources of heat and ignition. Do not store with oxidising agents. Do not store in buildings inhabited by humans or animals. Only open containers in the open air.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: There is no exposure standard allocated for zinc phosphide bait or zinc phosphide powder. However, the product may liberate phosphine gas which presents a serious toxic risk. The time weighted average (TWA) for phosphine gas is 0.42 mg/M³ (≅0.3ppm). The TWA is the average airborne concentration of the material which must not be exceeded when calculated over a normal 8 hour day and a 5 day working week. The short term exposure limit (STEL) for phosphine gas is 1.4 mg/ M³ (≅1.0ppm). The STEL is a value which should not be exceeded for more than 15 minutes and which should not be equaled on more than four occasions per day. There should be a period of at least 60 minutes between successive exposures at the STEL.

Biological limit values: No biological limit allocated.

Engineering controls: Use only in a well ventilated area.

Personal protective equipment: When opening the container and using the product wear PVC gloves. If handling large quantities of bait in confined areas, wear a full face-piece respirator with combined dust and gas cartridge or supplied air respirator. For help in selecting a suitable mask consult AS/NZS 1715. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and respirator and if rubber wash with detergent and warm water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark grey to black coloured wheat
Odour: Distinct characteristic odour of garlic.
Solubility in Water: Decomposes in water to liberate phosphine gas.
Specific Gravity (H₂O=1): not available
pH Value: not available
Vapour Pressure: not available
Melting Temperature: not measured
Boiling temperature: not measured
Viscosity, dynamic: not measured

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

Materials to be avoided: Water/moisture

Dangerous reactions: Contact with water releases flammable gases; Contact with water releases toxic gases; Contact with acids liberates very toxic gas.

Dangerous products of decomposition: Hydrogen phosphide (Phosphine); Phosphorus oxides (e.g. P₂O₅)

11. TOXICOLOGICAL INFORMATION

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Inorganic phosphorus compounds may cause irritation and haemorrhages in the stomach as well as liver and kidney damage. Bone structure may be attacked, especially the jaw and teeth. Zinc fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, muscle cramps, blurred vision, nausea, fever, perspiration, vomiting and leukocytosis.

Subacute to chronic toxicity: Phosphine, if generated, is a very toxic, flammable gas. The chief effects are central nervous system depression and lung irritation. Inhalation can cause coma and convulsions leading to death within 48 hours.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: 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 grains degrade over time in the environment due to the effects of sunlight and rainfall. Zinc phosphide degrades in atmospheric moisture due to the dissolution of carbon monoxide to form weak carbonic acid which releases phosphine gas. The product is expected to degrade completely after rain, leaving no environmental residues.

Mobility Not applicable.

Additional information Does not bioaccumulate. Low risk of secondary poisoning.

13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Product Disposal: In accordance with local authority regulations, take to special waste incineration plant.

Container Disposal: Dispose of empty, used containers by crushing and burying the containers at least 1 metre deep in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN No. : n/a
Shipping Name : n/a
Dangerous Goods Class : n/a
Subsidiary Risk : None Allocated
Pack Group : n/a
Hazchem Code : n/a

EPG: n/a
Storage and Transport: Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

APVMA Approval No: 59797/XX/0706

Risk Phrases: 15/29 Contact with water liberates toxic, extremely flammable gas. 28 Very toxic if swallowed. 32 Contact with acids liberates very toxic gas.

Safety Phrases: 3/9/14 Keep in a cool, well ventilated place, away from acids 30 Never add water to this product. 36/37 Wear suitable protective clothing and gloves. 45 In case of accident or if you feel unwell, seek medical advice immediately.

Packaging & Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category
AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

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

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...End of SDS...