



4 Farmers ... For Farmers  
Printing date 02.03.2017

# Safety Data Sheet

according to WHS Regulations

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## 1 Identification

**Product Name: 4FARMERS ZINC PHOSPHIDE UNSTERILIZED BAIT**

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Vermin control.

**Uses Advised Against:** Not suitable for domestic use.

**Details of Manufacturer or Importer:**

4Farmers Australia Pty Ltd  
70 McDowell Street  
Welshpool WA 6106

**Phone Number:** +61 8 9356 3446

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



skull and crossbones

Acute Toxicity (Oral) 3 H301 Toxic if swallowed.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

**Signal Word** Danger

**Hazard Statements**

H301 Toxic if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P273 Avoid release to the environment.

P264 Wash hands thoroughly after handling.

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

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

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

**Additional Information** AUH029 Contact with water liberates toxic gas.

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

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Hazardous Components:		
1314-84-7	Zinc phosphide  Water-react. 1, H260;  Acute Toxicity (Oral) 1, H300;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410	2.5%

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Do not give mouth-to-mouth if substance has been inhaled or ingested. Instead, use a pocket mask or proper respiratory device. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap for at least 15 minutes. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: Inhalation of phosphine gas can cause vomiting, diarrhoea, cyanosis, rapid pulse, fever and shock. Can be fatal if inhaled.

Ingestion: Toxic if swallowed. Zinc phosphide will react with stomach acids liberating phosphine gas. Symptoms include nausea, vomiting, diarrhoea, abdominal pain, excitement, agitation, chills, cyanosis, rales, restlessness, fever and tightness in the chest. Can be fatal if ingested.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Dry powder or carbon dioxide. Do not use water.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include phosphine gas, oxides of zinc and oxides of phosphorus. Product is not readily flammable, but phosphine gas may ignite if the concentration in air exceeds 1.79%. Containers close to fire should be removed if safe to do so.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved dust/vapour respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Clean spill area with plenty of soapy water.

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### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust or vapour. Only open containers in well ventilated areas.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from oxidising agents, water and acids. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. Do not store in areas inhabited by animals or people.

### 8 Exposure controls and personal protection

**Exposure Standards:****7803-51-2 Phosphine**

NES	STEL: 1.4 mg/m <sup>3</sup> , 1 ppm TWA: 0.42 mg/m <sup>3</sup> , 0.3 ppm
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**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**Respiratory Protection:**

Use an approved full face-piece combined dust and gas respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Wheat
<b>Colour:</b>	Dark grey to black
<b>Odour:</b>	Product liberates phosphine gas which has a distinct garlic-like odour.

<b>Odour Threshold:</b>	No information available
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<b>pH-Value:</b>	No information available
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<b>Melting point/freezing point:</b>	No information available
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<b>Initial Boiling Point/Boiling Range:</b>	Not applicable
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<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Decomposes to liberate flammable phosphine gas.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	Not applicable
<b>Density:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	Not applicable
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Decomposes in contact with water liberating toxic and flammable phosphine gas.
<b>Partition Coefficient (n-octanol/water):</b>	Not determined.

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.

Contact with water or acids liberates toxic gas.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Oxidising agents, water and acids.**Hazardous Decomposition Products:** Phosphine gas, oxides of zinc and oxides of phosphorus.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****1314-84-7 Zinc phosphide**Oral LD<sub>50</sub> 0.4 mg/kg (rat)**Acute Health Effects****Inhalation:**

Inhalation of phosphine gas can cause vomiting, diarrhoea, cyanosis, rapid pulse, fever and shock. Can be fatal if inhaled.

**Skin:** No adverse health effects expected.**Eye:** No adverse health effects expected.**Ingestion:**

Toxic if swallowed. Zinc phosphide will react with stomach acids liberating phosphine gas. Symptoms include nausea, vomiting, diarrhoea, abdominal pain, excitement, agitation, chills, cyanosis, rales, restlessness, fever and tightness in the chest. Can be fatal if ingested.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

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**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Repeated or prolonged exposure to phosphine gas include hair loss, tooth ache, weakness, loss of appetite, weight loss and weakening of bones, particularly in the jaw. May cause damage to the liver, kidneys and brain.

**Existing Conditions Aggravated by Exposure:** No information available**12 Ecological Information****Ecotoxicity:****Aquatic toxicity:** Very Toxic to aquatic life with long lasting effects.**Persistence and Degradability:**

Zinc phosphide will degrade due to the effects of sunlight and rainfall. This product is expected to degrade completely after rain, leaving no environmental residue.

**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:** No information available**Other adverse effects:** No information available**13 Disposal considerations****Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 Transport information****UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated**Marine pollutant:** Yes  
Symbol (fish and tree)**15 Regulatory information****Australian Inventory of Chemical Substances:**

1314-84-7 | Zinc phosphide

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 7

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### 16 Other information

**Date of Preparation or Last Revision:** 02.03.2017**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Water-react. 1: Substances and mixtures, which in contact with water, emit flammable gases. Hazard Category 1

Acute Toxicity (Oral) 1: Acute toxicity – Category 1

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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