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ZP RODENT BAIT

Pellets

**RODENTICIDE FOR THE CONTROL OF GROUND SQUIRRELS, NORTHERN
POCKET GOPHERS, RATS, HOUSE MICE AND VOLES**

REGISTRATION NO.: **14240** PEST CONTROL PRODUCTS ACT

COMMERCIAL

CAUTION



POISON

GUARANTEE:

Zinc Phosphide.....2.0%

Warning, contains the allergens wheat and soya

Contains malathion at 0.01% as a preservative.

READ THE LABEL BEFORE USING

(see back panel for additional precautionary statements)

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1.3 kg to 22.7 kg

Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.

Bell Laboratories, Inc., 3699 Kinsman Blvd., Madison, WI 53704 USA
Tel. 608-241-0202

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN, PETS AND LIVESTOCK.
May be fatal or harmful if swallowed. Avoid skin contact. Avoid inhalation of dust. Avoid all acid contacts. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and water before reuse. Users should remove clothing immediately if pesticide gets inside, then wash skin

thoroughly and put on clean clothing. Chemical-resistant gloves must be worn when disposing of dead rodents, unconsumed bait and empty containers.

All handlers, including loaders and applicators, must wear a long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves. In addition, persons loading pellets or bait into mechanical ground equipment or loading/applying with handpushed or handheld equipment, must wear a NIOSH-approved particulate-filter respirator and protective eyewear.

FIRST AID:

Symptoms of exposure to phosphine-releasing products can include headache, dizziness, nausea, difficult breathing, vomiting, and diarrhea. In all cases of exposure, protect yourself, remove the person from the source of exposure and get them to an Emergency department. If possible, bring this Applicator's Manual, the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

FIRST AID RESPONDER PROTECTION: Phosphine gas is a highly toxic systemic poison and a severe respiratory tract irritant. Persons exposed to solid phosphides, which react with moisture to produce phosphine gas, can pose risks to others if phosphides are on clothes, skin, or hair. First Aid responders should protect themselves through the use of appropriate personal protective equipment before attempting to rescue or care for a person who has been exposed to a phosphine-releasing product, and/or if entering a zone with potentially unsafe phosphine levels. A NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a NIOSH-approved particulate-filter respirator approved for pesticides or NIOSH/MSHA approved self-contained breathing apparatus (SCBA) operated in a positive pressure mode is recommended in response situations that involve exposure to unknown levels of phosphine.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration using a bag-valve-mask device to prevent possible secondary exposure to phosphine gas to the first aid responder. Do not perform mouth-to-mouth resuscitation. Do not give anything by mouth to an unconscious person. Call a poison control centre or doctor immediately for further treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. DO NOT DRINK WATER. Do not administer anything by mouth or make the person vomit. It is likely that this exposure will lead to spontaneous vomiting.

IF ON SKIN OR CLOTHING: Brush or shake material off clothes and shoes in a well ventilated area. Allow clothes to aerate in a ventilated area prior to laundering. Do not leave contaminated clothing in occupied and/or confined areas such as automobiles, vans, motel rooms, etc. Wash contaminated skin thoroughly with soap and water for 15-20 minutes. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION: ZP Rodent Bait containing zinc phosphide reacts with moisture from the air, acids and many other liquids to release hydrogen phosphide (phosphine, PH₃) gas. Mild exposure by inhalation causes malaise (indefinite

feeling of sickness), ringing in the ears, fatigue, nausea and pressure in the chest which is relieved by removal to fresh air. Moderate poisoning causes weakness, vomiting, pain just above the stomach, chest pain, diarrhea and dyspnea (difficulty in breathing). Symptoms of severe poisoning may appear within a few hours to several days. Severe poisoning may result in pulmonary edema (fluid in lungs) and may lead to dizziness, cyanosis (blue or purple skin colour), unconsciousness, and death. In sufficient quantity, phosphine affects the liver, kidneys, lungs, nervous system and circulatory system, and may result in (1) pulmonary edema, (2) liver elevated serum AST, ALT and ALP, reduced prothrombin, hemorrhage and jaundice (yellow skin colour) and (3) kidney haematuria (blood in urine) and anuria (abnormal or lack of urination). Pathology is characteristic of hypoxia (oxygen deficiency in body tissue). Frequent exposure to concentrations above permissible levels over a period of days or weeks may cause poisoning. Inhalation can cause lung edema (fluid in lungs) and hyperaemia (excess of blood in a body part), small perivascular brain hemorrhages and brain edema (fluid in brain). Poisonous if swallowed. Ingestion can cause lung and brain symptoms but damage to the viscera (body cavity organs) is more common.

Treatment is symptomatic. The following measures are suggested for use by the physician in accordance with the physician's own judgment: In its milder to moderate forms, symptoms of poisoning may take up to 24 hours to appear. Monitoring should continue for at least this long. Manifestations of severe poisoning appear early. Hypoxia and hypotension should be treated with usual supportive measures of oxygenation, intubation, ventilation and positive pressure as needed, and intravenous fluids, pressors and inotropes as required, respectively. In the event of the ingestion of a large quantity of zinc phosphide, once the patient is stabilized, aspiration of gastric contents by inserting a 16 french naso-gastric tube to suction the stomach contents might be considered. There is no specific antidote. Hemodialysis may be indicated if renal failure develops but does not remove the toxin.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds.

DIRECTIONS FOR USE:

The use of ZP Rodent Bait is intended for indoor and outdoor use.

USE LIMITATIONS – General:

DO NOT place bait in areas where there is a possibility of contaminating food or surfaces that come in direct contact with food.

APPLICATION DIRECTIONS – Rats & House Mice:

IN AND AROUND LISTED BUILDINGS:

TO CONTROL Norway Rat (*Rattus norvegicus*) and Roof Rat (*Rattus rattus*) in and around farm buildings, feed barns, storage sheds, poultry houses and industrial buildings. Place 15 g (one level teaspoon) of bait in rat burrows, harborages and along walls where signs of rat activity are present. Placements should be made at intervals of 4.5 to 9 metres. Maintain an uninterrupted supply of fresh bait until all signs of rat activity cease.

TO CONTROL House Mice (*Mus musculus*) in and around farm buildings, feed barns, storage sheds, poultry houses and industrial buildings. Place 15 g (one level teaspoon) of bait every 2.5 - 3.7 m along walls where signs of mouse activity is present. Maintain an uninterrupted supply of fresh bait until all signs of mouse activity cease.

Recover bodies of rats and house mice where accessible and recover all unused bait.

USE LIMITATIONS – Rats & House Mice:

Use indoors, and outdoors within 15 metres of buildings. Bait **MUST** be placed in bait stations. Rodenticide bait can be placed in tamper-resistant bait stations along the fence line of properties, outside of the 15-metre limit but within 100 metres of buildings, if the station is securely fastened (e.g. nailed down) to the fence or the ground.

Bait stations (**tier 3**) used for the placement of rodenticide bait indoors, in locations not accessible to pets or livestock must have the following characteristics: (1) be constructed of high-strength material (e.g., metal or injection molded plastic) and resistant to destruction by children: (2) have an entrance designed so that children cannot reach the bait; (3) have internal structure which prevents bait from being shaken loose; (4) have an access panel that fastens securely and locks (e.g., metal screw or padlock); and (5) bear the product name, active ingredient, guarantee, registration number, “WARNING POISON”, and the skull and crossbones symbol.

Bait stations (**tier 2**) used for the placement of rodenticide bait indoors, in locations accessible to pets or livestock must have the following characteristics, in addition to those outlined above for tier 3 bait stations: (1) resistant to destruction by non-target animals; and (2) have an entrance designed so that non-target animals cannot reach bait.

Bait stations (**tier 1**) used outdoors, above-ground, in locations accessible to children, pets and non-target wildlife must have the following characteristics, in addition to those outlined above for tier 2 and 3 bait stations: (1) be resistant to destruction or weakening by elements of typical non-catastrophic weather (such as, snow, rain, extremes of temperature and humidity, direct sunshine, etc.).

OTHER OUTDOOR AREAS:

Northern pocket gophers (*Thomomys talpoides*) AND ground squirrels [Richardson's, Columbian, Thirteen-lined and Franklin's (*Spermophilus sp.*):

APPLICATION DIRECTIONS – Northern Pocket Gophers & Ground Squirrels:

TO CONTROL Northern pocket gophers (*Thomomys talpoides*) and ground squirrels, i.e.: Richardson's, Columbian, Thirteen-lined and Franklin's (*Spermophilus sp.*): Place 15 g (one level teaspoon) of bait into each burrow; close burrows. After 10 days open all burrows to determine the degree of success. If any burrows are re-opened, re-bait. Pre-baiting with clean feed will enhance the acceptance of the treated bait.

TO CONTROL Northern pocket gophers (*Thomomys talpoides*) in orchards, pastures, and hayfields. Apply at 2.5 - 4.5 kg of product/ha using either Burrow Builder or hand probe. Treat affected areas from May through November at a maximum of two applications per year.

USE LIMITATIONS – Ground Squirrels:

Apply to burrows occupied by ground squirrels only. Do not apply to unoccupied burrows. Applicators of zinc phosphide should observe the potential treatment area before treating burrows, to confirm the presence of activity of ground squirrels and to ensure there is no evidence of species at risk activity or presence in burrows. For information on species at risk in your area, contact your provincial or federal wildlife officials.

DEER MICE (*Peromyscus sp.*) AND VOLES (*Microtus sp.*):

APPLICATION DIRECTIONS – Deer Mice & Voles:

TO CONTROL deer mice (*Peromyscus sp.*) and Voles (*Microtus sp.*) in orchards. Apply after apple harvest, before snow fall, preferably before leaf fall or lodging of the grass. Apply broadcast as an overall treatment, 1.10 - 4.50 kg/ha; apply by means of cyclone seeder, fertilizer drill or seed drill. For distribution by hand, place 14 g around each tree; allow bait to fall through grass or litter to ground surface but do not apply to bare ground. Do not apply if rain is expected. Check area 2 weeks after application and treat again if live deer mice or voles are found (apple quarters feeding index). Never place bait in heaps or piles.

Where there is access by the general public or a hazard to wildlife, pets or livestock, place in bait stations; use at the rate of 45 g (one tablespoon) of bait per bait station.

USE LIMITATIONS – Deer Mice & Voles:

Bait placed outdoors, above-ground in sites that are or will be open to the public (e.g., Pick-Your-Own sites), or in locations accessible to pets or livestock, **MUST** be placed in tier 1 bait stations. The bait stations used at these sites **MUST** meet the characteristics described under USE LIMITATIONS - Rats and Mice.

DISPOSAL: Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for cleanup of spills.

RODENT DISPOSAL: Dispose of dead rodents in garbage or by burying.

STORAGE: Store in cool, dry place away from other chemicals and food or feed. Store product not in use, in original container, in a secure location inaccessible to children and non-target animals.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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