

MATERIAL SAFETY DATA SHEET

11/2004

GRAIN BAIT CONTAINING ZINC PHOSPHIDE EPA REGISTRATION NUMBER: 13808-6

SECTION I. MATERIAL IDENTIFICATION

DESCRIPTION: Zinc Phosphide coated grain for controlling rodent populations.

Trade Name: Zinc Phosphide Prairie Dog Bait
Synonyms: Grain Bait

MANUFACTURER: South Dakota Department of Agriculture,
Rodent Control Fund
Pierre SD 57501
(605)773-3796

EMERGENCY CONTACT NUMBER: (605)773-3796,
Medical 1-800-222-1222

SECTION II. INGREDIENTS AND HAZARDS

Zinc Phosphide (Active Ingredient)	2.0% or Less
Inert Ingredients	98.0% or Less

Rat Oral LD50:	56228-14:	2.0% ZnP	888 mg/kg
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No personal exposure limit (PEL) has been established for these products. Normal exposure may be created by dust released while handling; under abnormal conditions decomposition of products could create a more hazardous situation. If ingested, poisoning will occur.

SECTION III. PHYSICAL DATA (Active Ingredient)

Specific Gravity (H ₂ O=1)	Close to 1.0 (depends on coating density)
Volatiles	Negligible
Solubility in Water	Negligible
Appearance and Odor	Gray, free-flowing granular powder with slight garlic odor; dust leaves a slight metallic taste in mouth.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point	Not Applicable
Auto-ignition Temp.	No Data
Flammability Limits	No Data

Contact with strong oxidizers may cause heat/explosion. Like every grain product, this can reach self-ignition temperature in storage because of fermentation induced by moisture and warm conditions; finely dispersed dust particles in the air can be a fire or explosion hazard.

Extinguishing Media: Dry chemical: carbon dioxide: powder or foam.
Avoid contact with water.

SECTION V. REACTIVE DATA

This is a stable material at room temperature, when dry and kept in closed containers. Moisture reacts with zinc phosphide to produce phosphine, a highly-toxic and spontaneously-flammable gas. In contact with acids, the release of phosphine is more rapid, while in contact with oxidizers, the essentially organic nature of the product creates a high risk of fire. Upon burning, it forms zinc oxide and phosphorus oxides. Full protective equipment is required for all clean-up activities if this product is reacting to water or acids.

SECTION VI. HEALTH HAZARD INFORMATION

There is no established PEL for this product or its active ingredient. Inhalation of dust released by this product can be irritating; in large quantities, the zinc phosphide presents a potential risk because of phosphine exposure. Pulmonary symptoms may be produced which could include delayed onset of severe pulmonary edema; treating-physician should be made aware of the presence of zinc phosphide and surveillance maintained for sufficient time in cases of serious exposure.

Any person applying zinc phosphide products and experiencing signs or symptoms such as nausea, abdominal pain, tightness in the chest or weakness, should be seen by a physician immediately.

FIRST AID: Call a physician OR Poison Control Center IMMEDIATELY.

IF SWALLOWED: Immediately call a Poison Control Center or physician, or transport the patient to the nearest hospital. Do not drink water. Do not administer anything by mouth or make the patient vomit unless advised to do so by a physician.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if necessary.

IF ON SKIN OR IN EYES: Flush with plenty amounts of water. Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if irritation persists.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL OR LEAK: Use dust respirator and rubber gloves when cleaning up any spills. Return to the original container, if possible, or a similar-type container. If WET, collect in plastic bags for disposal; maintain good ventilation around collected material to reduce risk of exposure to phosphine. Flush contaminated area with copious amount of water. Neutralize any acid with sodium carbonate.

DISPOSAL: For waste disposable purposes, this product will be considered an acute hazardous waste. Scrap material can be burned in an approved incinerator or buried in an approved landfill in accordance with existing EPA and/or state regulations. Consult with state and local agencies for applicable disposal methods and techniques. If approved by appropriate agencies, the empty grain bag may be burned or disposed of in a sanitary landfill.

SECTION VIII. SPECIAL PRECAUTIONS AND COMMENTS

In using this material, follow suitable precautions to control dust, thus preventing fire and health hazards. Use good personal hygiene practices and keep product away from food, beverages, cosmetics, or tobacco products. Users should refrain from smoking while handling this product.

SECTION IX. SPECIAL PROTECTION INFORMATION

Store in a dry and well ventilated area, away from oxidizing agents and sources of heat or ignition. If handling produces dust, wear dust respirator and goggles or face shield, together with gloves. Follow good housekeeping practices where this material is used or stored to prevent any accumulation or contamination.