

# RATOL GRANULES

# MSDS

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## SECTION I. PRODUCT INFORMATION

<b>PRODUCT NAME: Ratol 2%RB</b>	<b>CHEMICAL: Zinc Phosphide</b>	<b>CHEMICAL FAMILY: Metal Phosphide</b>
<b>USE:</b> Rodenticide	<b>FORM:</b> Formulated Dry Bait	<b>BIS REGISTRATION NO:</b> CIR-46,829/2003-Zinc phosphide(RB)(240)-86

## SECTION II. HAZARDOUS INGREDIENTS

<b>INGREDIENT NAME:</b>		<b>% BY WEIGHT</b>
<b>COMMON NAME:</b> Zinc Phosphide	<b>IUPAC NAME :</b> Trizinc Diphosphide	2.00

## SECTION III. PHYSICAL DATA

<b>APPEARANCE</b> : Granules	<b>COLOUR</b> : Dark Brown
<b>ODOR</b> : Characteristic	<b>SPECIFIC GRAVITY</b> : N/A
<b>MELTING POINT</b> : N/A	<b>BOILING POINT</b> : N/A
<b>WATER REACTIVITY</b> : N/A	<b>EVAPORATION RATE:</b> N/A
<b>VAPOR DENSITY</b> : N/A	<b>VAPOR PRESSURE</b> : N/A
<b>SOLUBILITY</b> : N/A	<b>BULK DENSITY</b> : N/A

## SECTION IV. FIRE AND EXPLOSION DATA

<b>FLASH POINT:</b> N/A	<b>FLAMMABLE LIMIT:</b> <b>UPPER LIMIT:</b> N/A <b>LOWER LIMIT:</b> N/A	<b>AUTOIGNITION TEMP:</b> N/A
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### EXTINGUISHING MEDIA:

Extinguish with water, foam or inert gas.

### FIRE FIGHTING PROCEDURES:

Wear self contained breathing apparatus and protective clothing.. Minimize amount of water used and contain the runoff by diking.

### OTHER FIRE OF EXPLOSION HAZARD:

None

## SECTION V. REACTIVITY HAZARD DATA

<b>STABILITY:</b> Stable	<b>CONDITIONS TO AVOID:</b> High Moisture Conditions.
<b>HAZARDOUS POLYMERISATION:</b> Will Not Occur	<b>CONDITIONS TO AVOID:</b> None
<b>INCOMPATIBILITY:</b> Acidic Media	<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Phosphine gas

## SECTION VI. TOXICITY DATA

<b>LD50, ORAL (INGESTION):</b> > 54 mg/Kg (rats)	<b>LD50,DERMAL(SKIN CONTACT):</b> > 176 mg/Kg (rats)	<b>LC50, INHALATION:</b> N/A
<b>EYE IRRITATION:</b> None (Rabbits)	<b>SKIN IRRITATION:</b> None (Rabbits)	<b>DERMAL SENSITIZATION:</b> Not Considered as a Sensitizer

SECTION VII. HEALTH HAZARDS				
<b>PRIMARY ROUTE OF ENTRY:</b> Ingestion		<b>SIGNS AND SYMPTOMS OF EXPOSURE:</b> Nausea, abdominal pain, tightness in chest, weakness, excessive thirst, and convulsions may occur.		
<b>ACUTE:</b>	<b>INGESTION:</b> Poisonous	<b>EYE:</b> Avoid Contact	<b>SKIN:</b> Avoid Contact	<b>INHALATION:</b> N/A
<b>CHRONIC:</b> None				
<b>EMERGENCY FIRST AID PROCEDURES:</b> <b>Eyes:</b> Flush with cool water for at least 15 minutes. If irritation develops, obtain medical assistance. <b>Skin:</b> Wash with soap and water. <b>Ingestion:</b> Call physician immediately. Do not give anything by mouth or induce vomiting unless instructed by the physician. <b>Inhalation:</b> None				
<b>NOTE TO PHYSICIAN:</b> No specific antidote known. Treat Symptomatically. If required, the doctor may use 0.5 gm of copper sulphate (as 1% aqueous solution), which forms insoluble cupric phosphide with 1/1000 potassium permanganate solution for oxidising the phosphide.				
SECTION VIII. CONTROL AND PROTECTIVE METHODS				
<b>RESPIRATOR TYPE:</b> Not Required		<b>EYE PROTECTION:</b> Not Required		
<b>GLOVES (Recommended):</b> Rubber Gloves		<b>VENTILATION:</b> Not Required		
<b>OTHER PROTECTIVE METHODS:</b> Not Required				
SECTION IX. SPILL OR LEAK PROCEDURE				
<b>STEPS TO BE TAKEN IN THE EVENT OF LEAKAGE OR SPILL:</b> Sweep up spilled material, place in properly labeled container for disposal or re-use				
<b>WASTE DISPOSAL METHOD:</b> Dispose of empty packaging material in household garbage. Dispose of waste or excess bait by burial below 0.5 meters or in accordance with local government regulations.				
SECTION X. SPECIAL PRECAUTIONS AND STORAGE DATA				
<b>STORAGE TEMPERATURE:</b> Room Temperature		<b>AVERAGE SHELF LIFE:</b> Bait is stable for a minimum of 2 Years when stored under proper conditions		
<b>SENSITIVITY (HEAT, LIGHT, MOISTURE):</b> Avoid exposure to light and humidity				
<b>PRECAUTIONS FOR HANDLING AND STORAGE:</b> Store in a cool, dry place inaccessible to children, pets and wildlife. Keep packing in sealed condition when not in use. Avoid contamination of lakes, streams and ponds by use, storage or disposal. Wash thoroughly with soap and water after handling.				
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