

MATERIAL SAFETY DATA SHEET RAT BAIT (Zinc Phosphide 2% RB)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER

PRODUCT NAME : RAT BAIT

CHEMICAL NAME : Zinc Phosphide 2% RB

CHEMICAL FORMULA : Zn3P2

RECOMMENDED USE: Rodenticide for Rodent control at outdoor use only.

FORMULATION : Rodent Bait (RB)

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MANUFACTURER ADDRESS : Arbuda Agrochemicals Pvt Ltd

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name CAS NO. Percent or content (w/w)

Zinc Phosphide 1314-84-7 2%

Other ingredients ----- 98%

3. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Substances/mixtures which, in contact with Category 1

water, emit flammable gases

Acute oral toxicity Category 1

Label Elements

Signal Word - Danger

Hazard Statements

In contact with water releases flammable gases which may ignite spontaneously

Fatal if swallowed.





PRECAUTORY STATEMENTS: PREVENTION

Prevention

Wash face, hands and any exposed skin thoroughly after handling.

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

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Handle under inert gas. Protect from moisture.

Wear protective gloves/protective clothing/eye protection / face protection.

Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage

Store locked up

Store in a dry place. Store in a closed container.

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

Contact with water liberates toxic gas

Contact with acids liberates very toxic gas



4. FIRST AID MEASURES

General Advice : Show this safety data sheet to the doctor in attendance.

Immediate medical attention is required.

Skin Contact: Wash off immediately with plenty of water for at least 15

minutes. Immediate medical attention is required.

Eye Contact : In the case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Inhalation : Remove the victim to fresh air. If breathing stops, apply /

provide artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical

device. Immediate medical attention is required.

Ingestion : Do NOT induce vomiting. Call a physician or poison

control center immediately

Note to Medical Doctor : There is no specific antidote if this product is ingested.

Treat symptomatically. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically. Contains petroleum distillate - vomiting may cause aspiration

pneumonia

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Dry sand

Unsuitable Extinguishing : No information available

Media

Flash Point : No information available

Method - : No information available

Auto ignition Temperature : No information available

Explosion Limits

Upper:No data availableLower:No data available

Sensitivity to Mechanical : No information available

Impact

Sensitivity to Static Discharge : No information available



Specific Hazards Arising from the Chemical

Contact with water liberates toxic gas. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Phosphorus trihydride (phosphine). Zinc oxide. Oxides of phosphorus.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 4 | 3 | 2 | W |

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Ensure adequate ventilation. Use personal protective

equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to

safeareas.

Environmental Precautions : Do not flush into surface water or sanitary sewer system.

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be

contained.

Methods for Containment and : Sweep up and shovel into suitable containers for disposal.

Clean Avoid dust formation. Do not expose spill to water.

Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13 "Disposal Considerations".



7. HANDLING AND STORAGE

Handling : Wear personal protective equipment/face protection. Do

not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Do not allow

contact with water.

Storage : Keep away from water or moist air.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines : This product does not contain any hazardous materials with

occupational exposure limits established by the region

specific regulatory bodies.

Engineering Measures : Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety

goggles as described by OSHA's eye and face protection

regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection : Wear appropriate protective gloves and clothing to prevent

skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR

1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced.

Hygiene Measures : Handle in accordance with good industrial hygiene and

safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid Pieces

Appearance : Dark grey – Black

Odor : Characteristic

Odor Threshold : No information available

pH : No information available

Melting Point/Range : 420 °C / 788 °F

Boiling Point/Range : $1100 \, ^{\circ}\text{C} \, / \, 2012 \, ^{\circ}\text{F}$

Flash Point : No information available

EVAPORATION RATE

Flammability (Solid, Gas) : No information available

FLAMMABILITY OR

EXPLOSIVE LIMITS

Upper Limits : No data available

Lower Limits : No data available

Vapor Pressure : No information available

Vapor Density Not applicable

Specific Gravity : 4.55 g/cm³

Solubility : No information available

Partition coefficient : No data available

n-octanol/water

Auto ignition Temperature : No information available

Decomposition Temperature : No information available

Viscosity : Not applicable

Molecular Formula:P2 Zn3Molecular Weight:258.10



10. STABILITY AND REACTIVITY

Reactive Hazard : Yes

Stability : Stable under normal conditions.

Conditions to Avoid : Exposure to moist air or water. Exposure to moisture.

Incompatible Materials : Strong oxidizing agents

Hazardous Decomposition: Phosphorus trihydride (phosphine), Zinc oxide, Oxides of

Products phosphorus

Hazardous Polymerization : Hazardous polymerization does not occur.

Hazardous Reactions : None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:Product Information
Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|--------------------------|--------------------------|-----------------|
| Zinc phosphide | LD50 = 42.6 mg/kg (Rat) | LD50 = 1123 mg/kg (Rat) | Not listed |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation:No information availableSensitization:No information availableToxicologically Synergistic:No information available

Products

Mutagenic Effects:No information availableReproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenicity:No information available

STOT - single exposure : None known STOT - repeated exposure : None known

Aspiration hazard : No information available Symptoms / effects, both acute : No information available

anddelayed

Endocrine Disruptor Information : No information available

Other Adverse Effects : The toxicological properties have not been fully

investigated.

Carcinogenicity : The table below indicates whether each agency has listed

any ingredient as a carcinogen.

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|----------------|-----------|------------|------------|------------|------------|------------|
| Zinc phosphide | 1314-84-7 | Not listed |



12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability:No information availableBioaccumulation/:No information available

Accumulation

Mobility : No information available

13. DISPOSAL CONSIDERATION

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component | RCRA - U Series Wastes | RCRA - P Series Wastes |
|----------------------------|------------------------|---|
| Zinc phosphide - 1314-84-7 | U249 | reactive waste; toxic waste when present at |
| | | concentrations >10% |

14. TRANSPORT INFORMATION

DOT

UN No. : UN1714

Packing Group : I

Hazard Class : 4.3

Proper Shipping Name : ZINC PHOSPHIDE

Subsidiary Hazard Class : 6.1

IMDG / IMO Classification

UN No. : UN1714

Packing Group : I

Hazard Class : 4.3

Proper Shipping Name : ZINC PHOSPHIDE

Subsidiary Hazard Class : 6.1



IATA/ICAO Classification

UN No. : UN1714

Packing Group : I

Hazard Class : 4.3

Proper Shipping Name : ZINC PHOSPHIDE

Subsidiary Hazard Class : 6.1

TDG

UN No. : UN1714

Packing Group :

Hazard Class : 4.3

Proper Shipping Name : ZINC PHOSPHIDE

Subsidiary Hazard Class : 6.1

15. REGULATORY INFORMATION

H-Phrase H301 : Toxic if swallowed

H312: harmful in contact with

skinH330: fatal if inhaled

H400: very toxic to aquatic life

H410: very toxic to aquatic life with long lasting effects

Signal word DANGER

Phrase G1/2 IZ 1 1 1 1 1 1 1

S1/2: Keep locked up and out of the reach of children.

S13: Keep away from food, drink and animal feeding staffs. S20/21: When

using, do not eat, drink or smoke.

S26: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S28: After contact with skin, wash immediately with plenty of water and soap.

S36/37/39: wear suitable protective clothing, gloves and eye/ faceprotection.

S45: In case of accident or if you feel unwell, seek medical advice (show the

label where possible)



16. OTHER INFORMATION

MSDS PREPARATION DATE 01/03/2024 REVISION DATE 28/02/2026

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to Date information. The information given in this data sheet does not constitute or Replace the user's own assessment or work risk as required by other health and Safety legislation.