

Safety Data Sheet

Rodenthor Bait Block

Emergency Phone 1-800-424-9300 (Chemtrec)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rodenthor Block Bait

Chemical Name: Bromadiolone

Recommended use of the chemical and restrictions on use: Rodenticide for the control of rats and mice

Company: Ensystex II, Inc.

Address: 2175 Village Dr., Fayetteville, NC 28304

Daytime Phone: 1-888-398-3772

2. HAZARDS IDENTIFICATION

Hazard classification

This material is not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200

Label Elements

3. COMPOSITION / INFORMATION ON INGREDIENTS

Bromadiolone	CAS # 28772-56-7	Weight % - 0.005
Denotonium benzoate	CAS # 3734-33-6	Weight % - 0.001

4. FIRST-AID

Description of first-aid measures

General advice: First-Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If the person is not breathing and has no pulse, consider cardiopulmonary resuscitation (CPR); use pocket resuscitation mask, bag valve mask etc., to avoid risk of poisoning rescuer. Consult a physician in all cases.

Eye Contact: Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor immediately for treatment advice.

Skin Contact: Take off Contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor immediately for treatment advice.

Ingestion: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control Center. Never give anything by mouth to an unconscious person.

Bromadiolone is an anticoagulant which may produce bleeding. Symptoms may be delayed for several days after exposure.

In case of poisoning bleeding disorders and increased bleeding tendency may occur.

In severe poisoning a strong internal bleeding can cause circulatory collapse and consequent death.

Indication of any immediate medical attention and special treatment needed

reduced activity of prothrombin is indicated to use antidote vitamin K1 (phytomenadione) at a dose of 10-20 mg (5-10 mg in children) slowly iv or as an infusion. Further treatment: Vitamin K1 (phytomenadione) is administered to 6x daily at a dose of 10 mg iv depending on the clinical picture, in most serious poisonings to 125mg / day. Vitamin K3 (menadione) is not effective! Because of the risk of hematoma avoid intramuscular injections. In the case of severe bleeding blood transfusions and further substitution of coagulation factors in the form of fresh frozen plasma or prothrombin complex concentrate are also needed.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Alcohol or polymer foam. Carbon dioxide (CO²)**Advice for firefighters**

Unsuitable extinguishing media: Full water jet.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive

Hazardous combustion products:

In the event of fire the following is released: poisonous and irritating gases.

Protective actions:

In case of fire do not breathe fumes/gases. Cool containers at risk with water spray jet. If possible remove containers from endangered area.

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate and post spill area. Wear appropriate safety clothing, respiratory protection devices and eye/face protection (see Section 8). Evacuate unprotected personnel that are nearby.

Environmental precautions: Keep people and animals away from and upwind of spill or leak. Prevent from entering into soil, ditches, sewers, waterways and /or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleanup:

Small spills: Take up mechanically and collect in suitable container and dispose according to current regulations. Large spills: Contact Ensystem Inc. for cleanup assistance. See Section 13, Disposal considerations, for additional information.

7. HANDLING AND STORAGE

Handling: Use good personal hygiene. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Storage: Keep out of reach of children. Product should be stored in compliance with local regulations. Store in a well ventilated, cool, dry area. Keep away from heat sources. Store in original container.

Incompatible products: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These recommendations are for Manufacturing. Applicators should see the product label for proper personal protective equipment.

Engineering measures: Apply technical measures to comply with the occupational exposure limits.

Exposure controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure limits.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required or during emergency conditions, use a NIOSH/MSHA approved respiratory protection.

Hand/Skin Protection: Wear long-sleeved shirt, long pants, socks, protective gloves and shoes

Eye/Face Protection: Chemical proof goggles / face shield

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Red wax block/weak

pH: No information available

Flash Point/Range: No information available

Water solubility: No information available

Vapor pressure: No information available

Specific Gravity: No information available

Bulk Density: No information available

Flammability (solid, gas): No information available

Flammability limit in Air

Upper flammability limit: No information available

Lower flammability limit: No information available

Vapor pressure: No information available

Vapor density: No information available

Density: 1.25

Solubility in other solvents: No information available

Partition coefficient: No information available

Autoignition temperature: No information available

Decomposition temperature: No information available

Oxidizing properties: No oxidizing properties.

10. STABILITY AND REACTIVITY

Reactivity: None under normal use conditions

Chemical Stability: Stable under normal storage conditions.

Conditions to Avoid: Avoid high temperatures

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Under normal use conditions no hazardous decomposition products expected. In case of fire/explosion vapors dangerous for health are spread. Carbon oxides are the most likely decomposition products.

Additional Information: Hazardous polymerization not likely occur.

11. TOXICOLOGICAL INFORMATION

For product

Acute Toxicity: Oral LD50/Rat/>2,000mg/kg; Dermal LD50/Rat/>2000mg/kg

For components

Bromadiolone (28772-56-7): Oral LD50/Rat/>0.56 mg/kg; Dermal LD50/Rat/ >1.71 mg/kg

Skin corrosion/irritation

No information available

Serious eye damage/eye irritation

No information available

Sensitization

No information available

Carcinogenicity: No information available

Teratogenic effect: No information available

Carcinogenic effects

No information available

Reproductive toxicity effects

No information available

Mutagenic effects

No information available

Aspiration hazard

No information available

12. ECOTOXICOLOGICAL INFORMATION

Toxicity to Bromadiolone (28772-56-7)

Acute toxicity to fish (steelhead)

LC₅₀, 96 Hour, 2.86 mg/l

Acute toxicity to aquatic crustacea (*water flea*)

EC₅₀, 48 Hour, 2 mg/l

Acute toxicity to algae/aquatic plants (*Scenedesmus suspicatus*)

EC₅₀ 96 Hour 0.17 mg/L

Persistence and degradability

No information available

Bioaccumulative potential

Partition coefficient n-octano/water (log Kow)

Bromadiolone (28772-56-7) >3

Bioconcentration factor (BCF)

No information available

Mobility in soil

No information available

Adsorption/Desorption

No information available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Improper disposal of excess pesticide is prohibited. If these wastes cannot be disposed of by use according to the label instructions, contact appropriate authorities for guidance.

Contaminated Packaging: Containers must be disposed of in accordance with local, state and federal regulations. Refer to product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT This material is not a hazardous material as defined by U.S. Department of Transportation 49 CFR Parts 100 - 185.

UN #:

Proper Shipping Name: Not dangerous according to ADR

Hazard Class:

Packing Group:

Transport in bulk according to Annex II MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult Ensystex II for further information.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Not listed

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Not listed

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal Word: Caution

Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. All handlers (including applicators) must wear shoes plus socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

16. Other Information

Hazard rating System

NFPA

Health	Fire	Reactivity	Specific Hazard
1	0	0	None

HMIS

Health	Fire	Reactivity	Specific Hazard
2	0	0	Protective Equipment: B

Disclaimer: The information of this SDS is based on the present state of our knowledge. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

Revised 07/16/2015