Product Name: Ramik® Brown – RESTRICTED USE PESTICIDE

Issue Date: June 1st, 2015 Replaces: New Issue SDS Number: HAC0083

1. PRODUCT IDENTIFICATION

Product Name: **RESTRICTED USE PESTICIDE**

Product Number(s): 0033370
Use: Rodenticide

Manufacturer: HACCO, Inc.

110 Hopkins Drive Randolph, WI 53956

Manufacturer Phone: 1-920-326-5141

Distributor: Neogen Corporation – Animal Safety

944 Nandino Boulevard Lexington, KY 40511

Distributor Phone: 1-800-477-8201

Emergency Phone: Medical: 1-800-498-5743 (United States and Canada)

Spill: 1-800-424-9300 (United States)

2. HAZARDS IDENTIFICATION

Classifications: Specific Target Organ Toxicity: Respiratory Irritation, Category 3

Carcinogenicity: Category 1A Specific Target Organ Toxicity: Repeated Category I

Dermal: Category 3

Signal Word (EPA): CAUTION
Signal Word (OSHA): DANGER

Hazard Statements: Toxic in contact with skin.

May cause respiratory irritation.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure







Hazard Symbols:

Precautionary Statements: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection.

If on skin: Wash with plenty of soap and water.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Call a poison control center, doctor or 1-800-498-5743 (Prosar) if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: This product presents no significant hazards under normal conditions of use.

May form combustible dust concentrations in air.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS Number Concentration Common Name Diphacinone Diphacinone 82-66-6 0.005% Grain Not Applicable Grain Trade Secret Not Applicable Flavorings Flavorings Trade Secret Green Colorant Green Colorant Not Applicable Trade Secret

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label, or Material Safety Data Sheet with you when calling 800-498-5743, a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call 1-800-498-5743, a poison control center or doctor immediately for treatment advice.

Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 1-800-498-5743 or by a poison control center or doctor. Do not give anything by mouth to an

unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call 1-800-498-5743, a poison control center

or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Wash skin with soap and water.

Inhalation: Not applicable.

Most Important Symptoms/Effects:

Anticoagulant effects.

Indication of immediate medical attention and special treatment needed:

This product contains anticoagulants with an effect similar to warfarin in that they act by interfering with the synthesis of prothrombin. The specific measure is the prothrombin time. Note this may not become prolonged until 12-18 hours after ingestion. The specific antidote is Vitamin K_1 (Phytomenandione BP).

Antidote must be administered under medical supervision. Initially, antidote should be given by injection (10-20 mg, or 0.25 mg/kg for children, by slow intravenous infusion at a rate of 1 mg/minute. In severe cases the use of fresh frozen plasma may be required). Maintenance treatment is given orally (40 mg/day in divided doses for adults; up to 20 mg/day in divided doses for children). The prothrombin time and the hemoglobin should be monitored. Patients should be kept under medical supervision until the prothrombin time has been normal for 3 consecutive days. Oral treatment may need to be continued for several weeks. (20 mg/day in divided doses for adults, and up to 20 mg/day in divided doses for children). (For animal cases the dose is 2-5 mg/kg).

Further information is available from the Prosar Emergency Number (1-800-498-5743) provided in this documents.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO₂ extinguishing media. If water is to be used to fight fire, dike and collect run-off.

Specific Hazards:

During a fire, irritating and possible toxic gases may be generated by thermal decomposition of combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or product of combustion.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Clean up spills immediately, observing precautions outlines in Section 8. Sweep up material and place in a compatible disposal container. Once all material is collected, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure rea out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING, AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limit

Chemical Name	OSHA PEL	ACGIH TLV	OTHER	SOURCE
Diphacinone	Not Established	Not Established	Not Established	Not Applicable
Grain	Not Established	Not Established	Not Established	Not Applicable
Flavorings	Not Established	Not Established	Not Established	Not Applicable
Green Colorant	Not Established	Not Established	Not Established	Not Applicable

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for

exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Eye protection is not required for normal handling. Where eye contact is likely, wear tight-fitting chemical

goggles.

Skin Contact: Gloves are not required for normal handling. Where heavy contact is likely, wear chemical resistant (such

as nitrile or butyl) gloves.

Inhalation: Respiratory protection is not required for normal handling. In the event of an unusual dust exposure, use

engineering controls or a NIOSH-approved particulate respirator (N, P, R, or HE filter) to keep exposure

below the Occupational Exposure Limit.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown extruded nuggets

Odor: Faint apple odor pH: Not Available Melting Point: Not Available Freezing Point: Not Available Boiling Point and Boiling Range: Not Available Flash Point (Test Method): Not Available Flammable Limits (% in air): Not Available Flammability: Not Available Vapor Pressure: Not Available Vapor Density: Not Available $31.00 - 33.00 \, \text{lbs/ft}^3$ Relative Density:

Solubility (ies): Slightly Soluble (Diphacinone Technical)

Partition Coefficient: Not Available Viscosity: Not Available Other: Not Available

10. STABILTY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: Stable under normal use and storage conditions

Possible Hazardous Reactions: Will not occur Conditions to Avoid: None known Incompatible Materials: None known Hazardous Decomposition Products: None known

11. TOXICOLOGICAL INFORMATION

Health Effects Information

Likely routes of exposure: Dermal, inhalation

Symptoms of exposure: Anticoagulant effects

Delayed, immediate and chronic effects of exposure: Anticoagulant effects

Numerical Measures of Toxicity (Acute Toxicity/Irritation Studies - Finished Product)

Ingestion: Oral LD_{50} (Rat): >7 mg/kg body weight (Diphacinone Technical)

Dermal: Dermal LD_{50} (Rabbit): >10 mg/kg body weight (Diphacinone Technical)

Inhalation: Inhalation LC_{50} (Rat): <1 mg/kg body weight (Diphacinone Technical)

Eye Contact: See "Other Toxicity Information, Section 11"
Skin Contact: See "Other Toxicity Information, Section 11"

Skin Sensitization: Not Available

Reproductive/Developmental Effects

Not Available

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Chronic/Subchronic Toxicity Studies

Diphacinone Technical: Not Available.

Carcinogenicity

Diphacinone Technical: Unlikely to be carcinogenic.

Chemical Name NTP / IARC / OSHA Carcinogen

2-Diphenylacetyl-1,3-Indandione No.

Other Toxicity Information

Systemically toxic concentrations of this product will probably not be absorbed through human skin.

No toxic effects are known to be associated with inhalation of dust from this material.

No irritation is likely to develop following contact with human eyes.

Irritation will probably not develop following contact with human skin.

Toxicity of Other Components

Not Applicable

Target Organs

Active Ingredients

Diphacinone Technical: Blood

Inactive Ingredients

Not Applicable

12. ECOLOGICAL INFORMATION

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse empty container except for holding additional product.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Proper Shipping Name: Exterminator, Vermin, O/T Poison

Hazard Class: Not Applicable UN Number: Not Applicable Packing Group: Not Applicable Label: Not Applicable Special Instructions: Not Applicable

IMDG Classification

Proper Shipping Name: Exterminator, Vermin, O/T Poison

Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

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IATA Classification

Proper Shipping Name: Exterminator, Vermin, O/T Poison

Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

Canadian Classification

Proper Shipping Name: Exterminator, Vermin, O/T Poison

Hazard Class:

UN Number:

Packing Group:

Label:

Not Applicable

15. REGULATORY INFORMATION

Pesticide Registration

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 sheers and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

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

EPA Registration Number: 61282-45

EPA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable
California Proposition 65: Not Applicable

CERLA/SARA 302 Reportable Quantity (RQ): None

RCRA Hazardous Waste Classification (40 CFR 261): Not Applicable

TSCA Status: Exempt from TSCA, subject to FIFRA

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16. OTHER INFORMATION

NFPA Hazard Ratings **HMIS Hazard Ratings** 0 - Minimal Health: 1 - Slight Health: Flammability: Flammability: 2 - Moderate Instability: 0 Reactivity: 3 - Serious Other: 4 - Extreme * - Chronic

> For Non-Emergency Questions About This Product Call: 1-800-621-8829 Neogen Corporation Lexington, KY

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