

Hacco, Inc.
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(Regulatory Office)
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(Manufacturing Location)

In Case of Emergency, Call:
1-800-498-5743 (U.S. Medical Emergency)
1-651-523-0318 (International, Medical Emergency)
1-800-424-9300 (U.S. CHEMTREC)
1-703-527-3887 (International, CHEMTREC)
(collect calls will be accepted on all lines)

1. PRODUCT IDENTIFICATION

Product Name: **Ramik[®] Brown**
Signal Word: **CAUTION**
Active Ingredient (%): Diphacinone (0.005%) CAS No.: 82-66-6
Chemical Name: 2-Diphenylacetyl-1,3-Indandione
Chemical Class: An indandione-type anticoagulant rodenticide.
Registration Number: 11,670 P.C.P. Act **Section(s) Revised: Contact Header**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Diphacinone (0.005%) CAS No. 82-66-6	Not Established	Not Established	Not Established	No
Sodium Saccharin (<1.000% CAS No. 128-44-9	Not Established	Not Established	Not Established	Candidate Chemical
Inert Ingredients (Non-Hazardous) i.e. Grain, Flavoring, Preservative	Not Established	Not Established	Not Established	No

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

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Slightly irritating to the eyes. The active ingredient is designed to cause bleeding after repeated ingestion.

Hazardous Decomposition Products

None known.

Physical Properties

Appearance: Tan/brown extruded pellet
Odor: Slight apple odor

Unusual Fire, Explosion, and Reactivity Hazards

None known.

4. FIRST AID MEASURES

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

Ingestion: **If swallowed**, give patient one or two glasses of water and induce vomiting by touching back of the throat with a finger or blunt object; repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

CONTACT A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY.

Eye Contact: **If in eyes**, flush with water for 15 minutes.

Skin Contact: **If on skin**, wash with soap and water.

Inhalation: Not applicable.

Notes to Physician

This material may reduce the clotting ability of the blood and cause bleeding. Vitamin K₁, in the form of intravenous, intramuscular or subcutaneous injections, or by oral ingestion is suggested remedial treatment for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Blood transfusions are indicated as in the case of hemorrhage caused by overdose of bishydroxycoumarin.

Medical Condition Likely to be Aggravated by Exposure

Bleeding and other conditions which may be aggravated by extended clotting time.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method):	Not Applicable	
Flammable Limits (% in Air):	Lower: % Not Applicable	Upper: % Not Applicable
Autoignition Temperature:	Not Available	
Flammability:	Not Flammable	
Extinguishing Media:	Fog or Water Spray, Foam, Carbon Dioxide, Dry Chemical	

Hazardous Decomposition Products:

None known.

Unusual Fire, Explosion, and Reactivity Hazards

None known.

In Case of Fire

Potentially hazardous in fire. Wear self-contained breathing apparatus. If water is used as an extinguishing media, diking is required to keep contaminated water out of all water supplies.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Sweep up, place in container and seal.

Waste Disposal Method

Dispose of empty container in household garbage. Dispose of unused and stale bait in accordance with local requirements.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area 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.

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.

- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Tan/brown extruded pellets
- Odor: Slight apple odor
- Melting Point: N/A
- Boiling Point: Not Available
- Specific Gravity/Density: Bulk Density 31-33 lbs. /ft³
- pH: Not Available
- Solubility: Slightly Soluble
- Vapor Pressure (mmg Hg): Not Available
- Vapor Density: Not Available

10. STABILITY AND REACTIVITY

- Stability: Stable under normal use and storage conditions.
- Hazardous Polymerization: Will not occur.
- Conditions to Avoid: None known.
- Materials to Avoid: None known.
- Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

- Ingestion: Low Toxicity
Oral (LD₅₀ Rat) : = 7 mg/kg body weight (Diphacinone Technical at 98% active)
Oral (LD₅₀ Rat) : > 100,000 mg/kg body weight (Ramik Brown)
- Dermal: Not Available
Dermal (LD₅₀ Rat) : See "Other Toxicity Information," Section 11
- Inhalation: Not Available
Inhalation (LC₅₀ Rat) : See "Other Toxicity Information," Section 11
- Eye Contact: See "Other Toxicity Information," Section 11
- Skin Contact: See "Other Toxicity Information," Section 11
- Skin Sensitization: Not Available

Other Toxicity Information

Systemically toxic concentrations of this product will probably not be absorbed through human skin. Because of the formulation of this product, inhalation is not expected to be a normal route of exposure. No irritation is likely to develop following contact with human eyes. Irritation will probably not develop following contact with human skin.

Effects of overexposure are those of anticoagulant overdose, i.e., reduced blood clotting ability with spontaneous bleeding in various organs. Body accumulation can result from repeated exposures. Individuals with blood clotting disorders may be more susceptible to overexposure effects.

Toxicity of Other Components

Grains : Not Available
Flavorings : Not Available

Target Organs

Active Ingredients

Diphacinone Technical: Blood

Inactive Ingredients

Not Available

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

Container Disposal

Do not reuse empty container. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

Pesticide Disposal

Dispose of unused or spoiled bait in accordance with local requirements. For more information on the disposal of unused, unwanted product and the cleanup of spills, contact the **Provincial Regulatory Agency or the Manufacturer**.

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

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Extreme

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation

Lexington, KY

www.Hacco.com

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Ramik[®] is a registered trademark of Hacco, Inc.

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