

**Hacco, Inc.**  
110 Hopkins Drive  
Randolph, WI 53956  
[www.hacco.com](http://www.hacco.com)

**1-800-498-5743**  
**1-800-039-008**  
**1-800-424-9300**  
**1-703-527-3887**

**In Case of Emergency, Call**  
**(medical emergencies – U.S.)**  
**(medical emergencies – Australia)**  
**(U.S. CHEMTREC)**  
**(International, CHEMTREC)**  
**(collect calls will be accepted on all lines)**

**1. IDENTIFICATION OF MATERIAL AND SUPPLIER**

**Product Name:** Ramik<sup>®</sup> Green Nuggets  
**Other Names:** Not Applicable  
**Recommended Use:** For the control of mice in and around industrial, commercial, agricultural and domestic buildings. DO NOT apply bait directly to ground surface or in grass or other ground cover.  
**Manufacturer:** HACCO, Inc.  
110 Hopkins Drive  
Randolph, WI USA 53956  
1-920-326-5141  
1-920-326-5135, fax  
[www.hacco.com](http://www.hacco.com)  
**Distributor:** Pest Control Technologies International Pty. Ltd  
1/74 Murdoch Circuit  
Acacia Ridge  
QLD, 4110, Australia  
1-800-630-877  
[www.pct.au.com](http://www.pct.au.com)  
**Emergency Contact:** 1 800 039 088 (ALL HOURS)

**2. HAZARDS IDENTIFICATION**

**Hazard Classification:** Hazardous According to Criteria of Worksafe Australia  
Very toxic if swallowed.  
Toxic: Danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Active Ingredient:** Diphacinone (0.005%)  
**Chemical Name:** 2-Diphenylacetyl-1,3-Indandione  
**CAS Number:** 82-66-6  
**Chemical Class:** An Indandione-type Anticoagulant Rodenticide

Material	OSHA (PEL)	ACGIH (TLV)	Other	NTP/IARC/OSHA Carcinogen
Diphacinone (0.005%)	Not Established	Not Established	Not Established	No
Grain	Not Established	Not Established	Not Established	No
Flavorings	Not Established	Not Established	Not Established	No
Green Pigment	Not Established	Not Established	Not Established	No

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 a poison control center or doctor, or going for treatment. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1-800-039-008.**

Ingestion: **CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY!** Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the 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 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.

##### Notes to Physician

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<sub>1</sub> (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 months. (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).

##### 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

Control the spill at its source. Clean up spills immediately, observing precautions outlined 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

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: Green extruded pellets
- Odor: Slight fish odor
- Melting Point: Not Available
- Boiling Point: Not Available
- pH: Not Available
- Vapor Pressure (mmg Hg): Not Available
- Vapor Density: Not Available
- Solubility: Slightly soluble
- Specific Gravity/Density: Bulk Density 497-529 kg /m<sup>3</sup>

## 10. STABILTY 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: Practically Non-Toxic
- Oral (LD<sub>50</sub> Rat) : > 7 mg/kg body weight (Diphacinone Technical at 98% active)
- Oral (LD<sub>50</sub> Rat) : > 100,000 mg/kg body weight (Ramik Green Nuggets)
- Dermal: Not Available
- Dermal (LD<sub>50</sub> Rat) : See "Other Toxicity Information," Section 11
- Inhalation: Not Available
- Inhalation (LC<sub>50</sub> 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 form 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

Green pigment : Not Available

Grains : Not Available

Flavorings : Not Available

Target Organs

Active Ingredients

Diphacinone Technical: Blood

Inactive Ingredients

Grains : Not Available

Flavoring : 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

Triple rinse or preferably pressure rinse containers before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury empty containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Pesticide Disposal

Excess or unused bait must be buried below one metre.

**14. TRANSPORT INFORMATION**

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by Sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air.

**15. REGULATORY INFORMATION**

**Hazard Classification:** **Hazardous According to Criteria of Worksafe Australia**

Very toxic if swallowed.

Toxic: Danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

**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](http://www.Hacco.com)

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