

**Manufactured For Hacco, Inc.  
By Woodstream Corporation  
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(Manufacturing Location)**

**In Case of Emergency, Call:  
1-800-858-7378 (Medical)  
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: **Di-Kill<sup>®</sup> Place Packs Kills Rats and Mice**  
Signal Word: **CAUTION**  
Active Ingredient (%): Difenacoum (0.005%) CAS No.: 56073-07-05  
Chemical Name: [3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin]  
Chemical Class: A coumarin-type anticoagulant rodenticide.  
Registration Number: 47629-17-61282 **Section(s) Revised: Regulatory Review**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Difenacoum (0.005%)	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

Ingestion: May be harmful or fatal if swallowed. May inhibit the clotting ability of the blood and cause bleeding.  
Eyes: May cause minor, transient eye irritation (redness).  
Skin: None known.  
Inhalation: Due to this product's solid form, inhalation is unlikely.

#### Emergency Overview

Harmful or fatal if swallowed. Active ingredient is designed to reduce the clotting ability of the blood and cause bleeding.

#### Hazardous Decomposition Products

Oxides of carbon.

#### Physical Properties

Appearance: Green solid pellets  
Odor: None

#### Unusual Fire, Explosion, and Reactivity Hazards

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

#### **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.

Ingestion: If swallowed: Call 1-800-222-1222, 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 1-800-222-1222 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 1-800-222-1222, 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).

Each 20g bar contains 1mg of difenacoum.

##### Medical Condition Likely to be Aggravated by Exposure

As stated above this product contains anticoagulants with an effect similar to that of Warfarin. The anticoagulant interferes with the synthesis of prothrombin. Significant exposure (e.g. ingestion) can cause anticoagulation effects and could aggravate existing blood clotting disorders.

#### **5. FIRE FIGHTING MEASURES**

##### Fire and Explosion

Flash Point (Test Method):	Not available	
Flammable Limits (% in Air):	Lower: % Not Available	Upper: % Not Available
Autoignition Temperature:	Not Available	
Flammability:	Not Flammable	
Extinguishing Media:	Use dry chemical or carbon dioxide	

##### Hazardous Decomposition Products:

Oxides of Carbon.

##### 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

Isolate and contain spill. Limit access to the spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters. Scoop up spilled material and place in a closed, labeled container for disposal.

## 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.

Read the entire product label before using this rodenticide. Carefully follow all cautions, directions and use restrictions on the label. Do not get in eyes, on skin or on clothing.

## 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.

**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.

**Skin Contact:** Gloves are not required for normal handling. Where heavy contact is likely, wear chemical resistant (such as nitrile or butyl) gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Green solid pellets  
**Odor:** None  
**Melting Point:** 211-215° C (Difenacoum Technical)  
**Boiling Point:** Not Available  
**Specific Gravity/Density:** Not Available  
**pH:** Not Available  
**Solubility:** Negligible  
**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:** Alkaline materials.  
**Hazardous Decomposition Products:** Oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Technical Product)

Ingestion:	<u>Acute Toxicity</u> Oral (LD <sub>50</sub> Rat) :	1.8-2 mg/kg (Difenacoum Technical)
Dermal:	<u>Acute Dermal Effects</u> Dermal (LD <sub>50</sub> Rabbit) :	>50 mg/kg (Difenacoum Technical)
Inhalation:	<u>Acute Inhalation Effects</u> Not Available	
Eye Contact:	Mild, transient irritation.	
Skin Contact:	Non-irritating.	

### 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.

### Toxicity of Other Components

Not Available

### Target Organs

#### Active Ingredients

Difenacoum Technical : Blood

## 12. ECOLOGICAL INFORMATION

This product is toxic to mammals and birds. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Follow label cautions and instruction to reduce hazards to non-target animals. 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

#### *Household Use:*

**If empty:** Do not reuse this container. Place in trash or offer for recycling if available.

**Partly Filled Containers and Spoiled and Unconsumed Bait:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### *Non-Household Use:*

**Plastic Containers:** Triple rinse (or equivalent). Dispose of empty container in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### Pesticide Disposal

Wastes resulting from the use of this product, and spoiled and unconsumed bait, may be disposed of at an approved waste disposal facility.

## 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

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: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable

**15. REGULATORY INFORMATION**

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

**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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