

**Hacco, Inc.**  
**110 Hopkins Drive**  
**Randolph, WI 53956**  
**(920) 326-2461**  
**(Registration Office)**  
**(920) 326-5141**  
**(Manufacturing Location)**

**In Case of Emergency, Call**  
**1-800-498-5743 (for medical emergencies)**  
**1-800-424-9300 (CHEMTREC)**

### 1. PRODUCT IDENTIFICATION

Product Name: **Diphacin<sup>®</sup> 110-A Concentrate Rodenticide**  
EPA Signal Word: **CAUTION**  
Active Ingredient (%): Diphacinone (2.00%) CAS No.: 82-66-6  
Chemical Name: 2-Diphenylacetyl-1,3-Indandione  
Chemical Class: An indandione-type anticoagulant rodenticide.  
EPA Registration Number: 61282-44 **Section(s) Revised: 1**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Diphacinone (2.00%)	Not Established	Not Established	Not Established	No
Grain	Not Established	Not Established	Not Established	No
Flavorings	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

Aromatic decomposition products: Carbon Monoxide, Carbon Dioxide, Water

#### Physical Properties

Appearance: White – light yellow powder  
Odor: Slight grain odor

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

None known.

### 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 1-800-498-5743.**

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:** Move person to fresh air. If person is not breathing call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

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 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).

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:

Aromatic decomposition products: Carbon Monoxide, Carbon Dioxide, Water

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. Spillage or leakage should be contained, moistened, and carefully swept up, avoiding inhalation of dust. Wash area of spill with detergent and water.

**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: White – light yellow powder
- Odor: Slight grain odor
- Melting Point: Not Available
- Boiling Point: Not Available
- Specific Gravity/Density: Bulk Density 40 lbs. /ft<sup>3</sup>
- 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: Aromatic decomposition products: Carbon Monoxide, Carbon Dioxide, Water

## 11. TOXICOLOGICAL INFORMATION

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

- Ingestion: Toxic  
Oral (LD<sub>50</sub> Rat) : > 7 mg/kg body weight (Diphacinone Technical at 98% active)
- 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.

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

Corn Flour : Not Available

Target Organs

Active Ingredients

Diphacinone Technical: Blood

Inactive Ingredients

Corn Flour : 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

*Plastic Containers:* Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*For containers 1 gallon or less:* Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**14. TRANSPORT INFORMATION**

DOT Classification

Toxic Solids, Organic, N.O.S., 6.1, UN2811, PG II (contains Diphacinone) – Marine Pollutant- ERG 154

B/L Freight Classification

Exterminator, Vermin, O/T Poison

Comments

Not Applicable

**15. REGULATORY INFORMATION**

EPA SARA Title III Hazard Classification

Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>Y</u>	Reactive	<u>N</u>		

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:	2
Flammability:	1
Instability:	0

HMIS Hazard Ratings

Health:	2
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

Original Issue Date:	April 2003
Revision Date:	June 3 <sup>rd</sup> , 2008
Replaces:	June 9 <sup>th</sup> , 2006

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