

MATERIAL SAFETY DATA SHEET

Date of Issue
November 15, 1985

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IDENTIFICATION

Product Name: **IBOTRAC® Tracking Powder**
Product Type: **Rodenticide tracking powder**

HAZARDOUS INGREDIENTS

	%	TLV mg/m ³ TWA	STEL
Calcium Salt of Isoval (2-Isovaleryl-1, 3-indandione) *Equivalent to 2.0% Isoval	2.18	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: Light brown crystal, slight acid odor Solubility in Water: **soluble**
pH: 8.0 Melting Point: 68-69°C Bulk Density: 41 lbs/ft³ Cas No.: 83-28-3

FIRE AND EXPLOSION DATA

Special Fire Hazards: **None**

Fire Fighting Methods: **Extinguish with water, foam or inert gas**

REACTIVITY DATA

Stability: **Stable**

Conditions to Avoid: **None**

SPILL OR LEAK PROCEDURES

Cleanup: **General clean-up**
Waste Disposal: **Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.**

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: **May reduce the clotting ability of the blood and cause bleeding.**
Skin and Eyes: **None**

If Swallowed: **Acute Oral LD₅₀ (Rats) 250 mg/kg (100% A.I.) May reduce the clotting ability of the blood.**

If Inhaled: **None**

Other Data:

FIRST AID

Eyes: **Flush with water**

Skin: **Wash with soap and water**

If Swallowed: **Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.**

If Inhaled: **None**

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: **Class 60** DOT Hazard Classification: **Non hazardous**

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IDENTIFICATION

Product Name: **LIQUA-TOX®**
Product Type: **Liquid Rodenticide Concentrate**

HAZARDOUS INGREDIENTS

	%	TLV mg/m ³ TWA	STEL
Sodium Salt of Warfarin (3-(alpha-Acetylbenzyl)-4 hydroxycoumarin) *Equivalent to .5% Warfarin	.54	None established	

PHYSICAL DATA

Appearance and Odor: **Clear odorless liquid** Solubility in Water: **soluble**
pH: 8.7 Melting Point: 161°C Bulk Density: 1.6 Cas No.: 81-81-2

FIRE AND EXPLOSION DATA

Special Fire Hazards: **None**

Fire Fighting Methods: **Extinguish with water, foam or inert gas**

REACTIVITY DATA

Stability: **Stable**

Conditions to Avoid: **None**

SPILL OR LEAK PROCEDURES

Cleanup: **General clean-up**
Waste Disposal: **Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.**

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: **May reduce the clotting ability of the blood and cause bleeding.**
Skin and Eyes: **Non irritating**

If Swallowed: **Acute Oral LD₅₀ (Rats) 50 mg/kg (100% A.I.) May reduce clotting ability of the blood.**

If Inhaled: **None**

Other Data:

FIRST AID

Eyes: **Flush with water**

Skin: **Wash with soap and water**

If Swallowed: **Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.**

If Inhaled: **None**

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: **Class 60** DOT Hazard Classification: **Non hazardous**

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IDENTIFICATION

Product Name: **P. C. Q.® Rat & Mouse Bait, RODENT CAKE®**
Product Type: **Rodenticide**

HAZARDOUS INGREDIENTS

	%	TLV mg/m ³ TWA	STEL
Diphacinone (2-diphenylacetyl-1, 3-indandione) ¹	.005	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: **Yellow crystal** Solubility in Water: **insoluble**
pH: 6.0 Melting Point: 146-147°C Bulk Density: 42.6 lbs/ft³ Cas No.: 82-66-6

FIRE AND EXPLOSION DATA

Special Fire Hazards: **None**

Fire Fighting Methods: **Extinguish with water, foam or inert gas**

REACTIVITY DATA

Stability: **Stable**

Conditions to Avoid: **None**

SPILL OR LEAK PROCEDURES

Cleanup: **General clean-up**
Waste Disposal: **Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.**

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: **May reduce the clotting ability of the blood and cause bleeding.**
Skin and Eyes: **None**

If Swallowed: **Acute Oral LD₅₀ (Rats) 3.0 mg/kg (100% A.I.) May reduce clotting ability of the blood.**

If Inhaled: **None**

Other Data:

FIRST AID

Eyes: **Flush with water**

Skin: **Wash with soap and water**

If Swallowed: **Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.**

If Inhaled: **None**

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: **Class 60** DOT Hazard Classification: **Non hazardous**

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IDENTIFICATION

Product Name: **FINAL® Rat & Mouse Bait, ERAZE® Rat & Mouse Bait**
Product Type: **Rodenticide**

HAZARDOUS INGREDIENTS

	%	TLV mg/m ³ TWA	STEL
1.) Warfarin (3-Alpha-Acetylbenzyl)-4 Hydroxycoumarin)	.025	None established	
2.) Sulfquinaxaline (N)-(2-Quinoxaliny) Sulfanilamide)	.025	None established (dry solid)	

PHYSICAL DATA

1.) White crystalline, odorless powder Solubility in Water: 1.) 81-81-2
Appearance and Odor: 2.) White crystalline, odorless powder 1.) 42 lbs/ft³
pH: 1.) 161°C 2.) 247-248°C Bulk Density: 2.) 39 lbs/ft³ Cas No.: 2.) 59-40-5

FIRE AND EXPLOSION DATA

Special Fire Hazards: **None**

Fire Fighting Methods: **Extinguish with water, foam or inert gas**

REACTIVITY DATA

Stability: **Stable**

Conditions to Avoid: **None**

SPILL OR LEAK PROCEDURES

Cleanup: **General clean-up**
Waste Disposal: **Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.**

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: **May reduce the clotting ability of the blood and cause bleeding.**
Skin and Eyes: **Non irritating**

If Swallowed: **Acute Oral LD₅₀ (Rats) 50mg/kg (100% A.I.) May reduce clotting ability of the blood.**

If Inhaled: **None**

Other Data:

FIRST AID

Eyes: **Flush with water**

Skin: **Wash with soap and water**

If Swallowed: **Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.**

If Inhaled: **None**

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: **Class 60** DOT Hazard Classification: **Non hazardous**

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MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

Product Name: ZP[®] RODENT BAIT, ZP[®] RODENT BAIT AQ, GOPHA-RID[®]
Product Type: Rodenticide

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Zinc Phosphide	2.0	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: Crystalline gray powder, garlic like odor Solubility in Water: Insoluble

pH: 7.0 Melting Point: 420°C Bulk Density: 4.55 Cas No.: 1314-84-7

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: water, foam, inert gas

REACTIVITY DATA

Stability: stable under dry condition

Conditions to Avoid: Acidic condition - in presence of dilute acids phosphine is liberated

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: If waste cannot be disposed of by use according to label instruction contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: Nausea, abdominal pain, tightness in chest, chills.

Skin and Eyes: Non irritating

If Swallowed: Acute Oral LD₅₀ (Rats) 1375 mg/kg

If Inhaled: Acute Inhalation LC₅₀ (10X A.I.) >19.6 mg/l. of air

Other Data:

FIRST AID

Eyes: Flush with plenty of water

Skin: Flush with plenty of water

If Swallowed: Call a physician or poison control center. Give 1 or 2 glasses of water and induce vomiting by touching back of throat. Avoid use of all oils.

If Inhaled: Non hazardous

SPECIAL PROTECTION INFORMATION

Use rubber gloves if contact with skin may occur. Wash hands thoroughly after use.

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous

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MATERIAL SAFETY DATA SHEET

Date of Issue
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IDENTIFICATION

Product Name: QUINTOX[®] Rat & Mouse Bait, QUINTOX[®] House Seed
Product Type: Rodenticide

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Cholecalciferol (Vitamin D ₃)	.075	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: Light brown resin Solubility in Water: Insoluble

pH: 5.6 Melting Point: 84-85°C Bulk Density: 431lb/ft³ Cas No.: 67-97-0

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Extinguish with water, foam or inert gas

REACTIVITY DATA

Stability: Resin oxidizes when exposed to U V light and moisture; formulated product is stable

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: Hypercalcemia

Skin and Eyes: Non hazardous

If Swallowed: Acute Oral LD₅₀ (Rats) 43.6 mg/kg (100X A.I.)

If Inhaled: Non hazardous

Other Data:

FIRST AID

Eyes: Flush with water

Skin: Wash with soap and water

If Swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Avoid use of all oils.

If Inhaled: Non hazardous

SPECIAL PROTECTION INFORMATION

If serum calcium levels are elevated treatment with calcitonin is effective in reducing calcium to normal levels. Continue monitoring serum calcium and treat as necessary for hypercalcemia (Reference, AMA Drug Evaluations, Third Edition (1979), Chapter 16 pp. 248-251)

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous

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MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

Product Name: ZP[®] TRACKING POWDER
Product Type: Rodenticide Tracking Powder

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Zinc Phosphide	10	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: grey crystals, garlic-like odor Solubility in Water: Insoluble

pH: 7.0 Melting Point: 420°C Bulk Density: 4.55 Cas No.: 1314-84-7

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: water, foam or inert gas

REACTIVITY DATA

Stability: Stable under dry condition

Conditions to Avoid: Acidic condition - in presence of dilute acids phosphine is liberated.

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: If wastes cannot be disposed of by use according to label instruction contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

HEALTH HAZARD DATA

SIGNAL WORD:

Effects of Overexposure: Nausea, abdominal pain tightness in chest, chills.

Skin and Eyes: Non irritating

If Swallowed: Acute Oral LD₅₀ (Rats) 160-300 mg/kg

If Inhaled: Acute Inhalation LC₅₀ >19.6 mg/l. of air

Other Data:

FIRST AID

Eyes: Flush with plenty of water

Skin: Flush with plenty of water

If Swallowed: Call a physician or poison control center. Give 1 or 2 glasses of water and induce vomiting by touching back of throat. Avoid use of all oils.

If Inhaled: Non hazardous

SPECIAL PROTECTION INFORMATION

Use rubber gloves if contact with skin may occur. Wash hands thoroughly after use.

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non Hazardous

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MATERIAL SAFETY DATA SHEET

Date of Issue
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IDENTIFICATION

Product Name: CONTRAC[®] Rat & Mouse Bait, CONTRAC[®] Cake
Product Type: Rodenticide

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Bromadiolone (3(3'-4'Bromo-[1,1-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl)-4-hydroxy-2H-benzopyran-2-one)	.005	None established (dry solid)	

PHYSICAL DATA

Appearance and Odor: White odorless crystal Solubility in Water: Practically insoluble

pH: 6.0 Melting Point: 200-210°C Bulk Density: 0.32 Cas No.: Unknown

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Water, foam, inert gas

REACTIVITY DATA

Stability: Product stable under light and humidity.

Conditions to Avoid: Lakes, streams or ponds.

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: Product that cannot be used according to label instructions, must be disposed of according to applicable Federal, State or Local Procedures.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure:

Skin and Eyes: Non irritating to skin and eyes. Acute Dermal LD₅₀ (100% A.I.) 6500 mg/kg.

If Swallowed: May reduce to clotting ability of the blood. Acute Oral LD₅₀ (Rats) (100% A.I.) 1,125 mg/kg.

If Inhaled: May reduce the clotting ability of the blood. Acute Inhalation LC₅₀ (Rats) (100% A.I.) 9.23 mg/l. of air.

Other Data:

FIRST AID

Eyes: Flush with plenty of water.

Skin: Wash with soap and water.

If Swallowed: Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.

If Inhaled: Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous

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MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

Product Name: **WARFARIN Q CONCENTRATE**
Product Type: **Rodenticide Concentrate for formulating purpose**

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
1.) Warfarin (3-(Alpha-Acetylbenzyl)-4-Hydroxycoumarin)	.5		None established
2.) Sulfaguinoxaline (N'-(2-Quinoxaliny)Sulfanilamide)	.5		(dry solid)

PHYSICAL DATA

Appearance and Odor: 1.) White crystalline, odorless powder
2.) White crystalline, odorless powder
pH: 1.) 8.6 (2.) 8.0 Melting Point: 1.) 161°C 2.) 247-248°C
Solubility in Water: insoluble
Bulk Density: 1.) 42lbs/ft³ 2.) 39lbs/ft³ Cas No.: 1.) 81-81-2 2.) 59-40-5

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Extinguish with water, foam or inert gas

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: May reduce the clotting ability of the blood and cause bleeding.
Skin and Eyes: None

If Swallowed: Acute Oral LD₅₀ (Rate) 50 mg/kg (100% A.I.) May reduce clotting ability of the blood.

If Inhaled: None

Other Data:

FIRST AID

Eyes: Flush with water

Skin: Wash with soap and water

If Swallowed: Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.

If Inhaled: None

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous



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MATERIAL SAFETY DATA SHEET

Date of Issue
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IDENTIFICATION

Product Name: **DIFRACINONE CONCENTRATE**
Product Type: **Rodenticide Concentrate for formulating purpose**

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Difracinone (2-diphenylacetyl)-1, 3-indandione)	.1		None established (dry solid)

PHYSICAL DATA

Appearance and Odor: Yellow crystal
Solubility in Water: insoluble
pH: 6.0 Melting Point: 146-147°C Bulk Density: 42.6 lbs/ft³ Cas No.: 82-66-6

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Extinguish with water, foam or inert gas

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: May reduce the clotting ability of the blood and cause bleeding.
Skin and Eyes: None

If Swallowed: Acute Oral LD₅₀ (Rate) 3.0 mg/kg (100% A.I.) May reduce clotting ability of the blood.

If Inhaled: None

Other Data:

FIRST AID

Eyes: Flush with water

Skin: Wash with soap and water

If Swallowed: Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.

If Inhaled: None

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous



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MATERIAL SAFETY DATA SHEET

Date of Issue
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IDENTIFICATION

Product Name: **WARFARIN CONCENTRATE**
Product Type: **Rodenticide Concentrate for formulating purpose**

HAZARDOUS INGREDIENTS

	%	TLV (mg/m ³) TWA	STEL
Warfarin (3-(alpha-acetylbenzyl)-4-hydroxycoumarin)	.5		None established (dry solid)

PHYSICAL DATA

Appearance and Odor: White odorless crystalline powder
Solubility in Water: insoluble
pH: 8.6 Melting Point: 161°C Bulk Density: 42lbs/ft³ Cas No.: 81-81-2

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Extinguish with water, foam or inert gas

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up

Waste Disposal: Wastes resulting from use may be disposed of on site or at an approval waste disposal facility.

HEALTH HAZARD DATA

SIGNAL WORD: Caution

Effects of Overexposure: May reduce the clotting ability of the blood and cause bleeding.
Skin and Eyes: Non irritating

If Swallowed: Acute Oral LD₅₀ (Rate) 50 mg/kg (100% A.I.) May reduce clotting ability of the blood.

If Inhaled: None

Other Data:

FIRST AID

Eyes: Flush with water

Skin: Wash with soap and water

If Swallowed: Administer Vitamin K₁ intramuscularly or orally as indicated in bishydroxycoumarin overdoses. Repeat as necessary based on monitoring of prothrombin times.

If Inhaled: None

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60

DOT Hazard Classification: Non hazardous



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