

**Product: 655-422      Prentox® Prenfish™ Toxicant**

**Material Safety Data Sheet  
U.S. Department of Labor (OSHA 29 CFR 1910.1200)**

**Manufacturer's Name: Prentiss Incorporated**  
**C. B. 2000**  
**Floral Park, NY 11001**  
**Telephone Number: (516) 326-1919**

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**Section 1: Chemical Identification**

**Product: 655-422 Prentox® Prenfish™ Toxicant**  
**EPA Signal Word: DANGER**

Active Ingredient (%): Rotenone (5%) (CAS # 83-79-4)  
Other Cube Resins (10%) N/A  
Chemical Names: Rotenone - N/A  
Chemical Class: Mixture

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**Section 2: Composition/ Information On Ingredients**

<b>Material:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>NTP/IARC/OSHA Other</b>	<b>Carcinogen</b>
Rotenone	(TWA) 5 mg/ M <sup>3</sup>	(STEL) 10 mg/M <sup>3</sup> (TWA) 5 mg/M <sup>3</sup>		No/No/No
Other associated cube resins	Not Est.	Not Est.		
Aromatic Petroleum Solvent (Supplier recommendation 100 ppm) (CAS # 64742-94-5) (Not to exceed 80%)				
Contains the following ingredients, by weight (typical):				
Naphthalene (CAS # 91-20-3)	9.9%		(TWA) 10 ppm	
1,2,4-trimethylbenzene (CAS # 95-63-6)	1.7%		(TWA) 25 ppm	
Acetone (CAS # 67-64-1) (not to exceed 7.5%)			(TWA) 250 ppm	
Emulsifier #1 (CAS # N/A)		1.5%		N/D
Emulsifier #2 (CAS # N/A)		4.5%		N/D

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**Section 3: Hazards Identification**

Clear liquid with mild odor. Fatal if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Causes substantial but temporary eye injury. Causes skin irritation. This pesticide is extremely toxic to fish.

**Potential Health Effects:**

Primary Routes of Entry: Inhalation, ingestion, skin and eye contact.

**Health Hazards (Acute and Chronic):** Causes mucous membrane irritation. Chronic exposure can cause damage to liver and/or kidneys. May be fatal if swallowed. May cause eye injury. Causes skin irritation. Do not get in eyes, on skin or on clothing. Toxicity of other components: This product contains an aromatic solvent.

Inhalation of solvent vapors at high concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Aspiration of solvent during vomiting may cause mild to severe pulmonary injury, possibly progressing to death. Frequent or prolonged skin contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition. Emulsifiers may cause severe eye injury.

**Signs and Symptoms of Overexposure:** Can cause skin irritation. Ingestion or inhalation can cause numbness, nausea, vomiting and tremors.

**Medical Conditions Generally Aggravated by Exposure:** None known.

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#### **Section 4: First Aid Measures**

**If swallowed,** call a physician or Poison Control Center. Do not induce vomiting. This product contains aromatic petroleum solvent. Aspiration may be a hazard. Promptly drink a large quantity of milk, egg white, and gelatin solution, or if these are not available, water. Avoid alcohol.

**If inhaled,** remove victim to fresh air. If not breathing, administer artificial respiration, preferably by mouth to mouth. Get medical attention.

**If on skin,** wash with plenty of soap and water. Get medical attention if irritation persists.

**If in eyes,** flush eyes with plenty of water. Get medical attention if irritation persists.

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#### **Section 5: Fire Fighting Measures**

##### **Fire and Explosion**

Flash Point (Method Used): 60° F. Closed cup.

Flammable Limits: LEL: 1.8 UEL: 11.7 (Solvent - approximate)

**NFPA Hazard Ratings: Health: 3      Flammability: 4      Reactivity: 0**

**Extinguishing Media:** CO<sub>2</sub>, foam, dry chemical, or water spray.

**Special Fire Fighting Procedures:** Do not inhale smoke. Use self-contained breathing apparatus and protective clothing. This product is extremely toxic to fish, and is toxic to birds and other wildlife, prevent spread of contaminated runoff.

**Unusual Fire and Explosion Hazards:** When heated to decomposition, product emits acrid smoke and fumes.

##### **Flammability Classification/Rating:**

NFPA/OSHA Class: I

NFPA Rating (Fire): 4

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#### **Section 6: Accidental Release Measures**

Wear protective equipment, as required, to prevent contact with product or its vapors. Cover the spilled material with generous amounts of absorbent material, such as clay, diatomaceous earth, sand or sawdust.

Sweep the contaminated absorbent onto a shovel and put the sweepings into a salvage drum. Dispose of wastes as below. Place any leaking container into a similar drum or glass container. Mark the drum or container with name of product, ingredient statement, precautionary statements and signal word. Contact us for replacement label. This product is extremely toxic to fish. Fish kills are expected at recommended rates. Keep it out of lakes, streams or ponds except under use conditions.

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**Section 7: Handling and Storage**

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Do not contaminate water, food or feed by storage or disposal. Store in a dry place away from temperature extremes. Avoid inhalation of vapors. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin. Wear clean protective clothing.

**Other precautions:** Periodically inspect stored materials.

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**Section 8: Exposure Controls/Personal Protection**

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**Respiratory protection:** Mixers and handlers: Do not inhale. Use NIOSH certified respirator for organic vapor protection.

**Ventilation:**

**Local Exhaust:** As required to meet TLV.

**Special:** Not applicable.

**Mechanical:** As required to meet TLV.

**Other:** Not applicable.

**Protective Gloves:** Chemical resistant.

**Eye Protection:** Safety glasses, face shield or goggles.

**Other protective clothing or equipment:** Wear long pants, long sleeved shirt or other body covering clothes. Avoid skin or eye contact.

**Work/Hygienic practices:** Wash thoroughly after handling and before eating or smoking. Remove contaminated clothing and wash thoroughly before reuse.

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**Section 9: Physical and Chemical Properties**

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<b>Appearance:</b>	Amber Liquid
<b>Odor:</b>	Aromatic Solvent Odor
<b>Boiling Point:</b>	N/D
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.9226
<b>Vapor Pressure (mmHg):</b>	N/D
<b>Melting Point:</b>	N/D
<b>Vapor Density (Air = 1):</b>	N/D
<b>Evaporation Rate (Butyl Acetate = 1):</b>	N/D
<b>Solubility in Water:</b>	Emulsifies.

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**Section 10: Stability and Reactivity**

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<b>Stability:</b>	Stable.
<b>Conditions to avoid for stability:</b>	None.
<b>Incompatibility:</b>	Strong acids and oxidizers.
<b>Hazardous Decomposition or Byproducts:</b>	CO, CO <sub>2</sub>
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to avoid for Hazardous Polymerization:</b>	None.

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**Section 11: Toxicological Information**

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**Acute Toxicity/Irritation Studies:**

(The following data were developed with Prenfish)

<b>Ingestion:</b>	Oral LD <sub>50</sub>	55.3 mg/Kg (Rat – female) 264 mg/Kg (Rat – male) 178 mg/Kg (Rat – overall)
<b>Dermal:</b>		>2020 mg/Kg (Rabbit) (Slightly toxic)
<b>Inhalation:</b>		4-hour LC <sub>50</sub> 0.048 mg/l. (Rat) (Highly toxic)
<b>Eye Contact:</b>		Moderately irritating (Rabbit)
<b>Skin Contact:</b>		Moderately irritating (Rabbit)
<b>Skin Sensitization:</b>		Non-sensitizing (Guinea Pig)

(The following data were developed with rotenone technical)

**Mutagenic Potential:** Rotenone was not mutagenic when tested.

**Reproductive Hazard Potential:** Rotenone had no reproductive effects when tested

**Chronic/Subchronic Toxicity Studies:**

**Cancer Information:** Rotenone was not carcinogenic when tested in rats and mice.

**Toxicity of Other Components:**

**Petroleum solvent:** The supplier reports that inhalation of high vapor concentrations (over 1,000 ppm) may cause nervous system effects such as headaches, dizziness, anesthesia and respiratory tract irritation

**Surfactant:** Causes severe eye irritation, which could lead to permanent eye damage. Prolonged or repeated skin contact may cause discomfort and local redness. Mist can irritate the respiratory tract, experienced as nasal discomfort and discharge with chest pain and coughing.

**Target Organs:** Eyes, skin, respiratory tract.

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**Section 12: Ecological Information**

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**Summary of Effects:** This product is extremely toxic to fish. Fish kills are expected at recommended rates. Consult your State Fish and Game Agency before applying this product to public waters to determine if a permit is needed for such an application. Do not contaminate untreated water when disposing of equipment washwaters.

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**Section 13: Disposal Considerations**

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**Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Pesticide wastes are toxic. 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.

**Container disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

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**Section 14: Transport Information**

**DOT Classification:** Pesticide liquid, flammable, toxic, n.o.s. (Rotenone, Acetone)

**Hazard Class:** 3, PG I

**Subsidiary hazard class:** 6.1

**DOT Shipping Label:** Poison and/or Toxic

**Note:** For transport purposes (49FR Part 173.132), the calculated 1-hour LC50 (Rat) is: 0.192 mg/L

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**Section 15: Regulatory Information**

**SARA Title III Classification:**

Section 311/312:

Acute health hazard

Fire hazard

Section 313 Chemicals:

Aromatic Petroleum Solvent (Supplier recommendation 100 ppm) (CAS # 64742-94-5)

(Not to exceed 80%)

Contains the following ingredients, by weight (typical):

Naphthalene (CAS # 91-20-3)	9.9%	(TWA) 10 ppm
1,2,4-trimethylbenzene (CAS # 95-63-6)	1.7%	(TWA) 25 ppm

**This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372. Any copies or redistribution of this MSDS must include this notice.**

**Proposition 65:** This product does not contain any chemical which is known to the State of California to cause cancer or birth defects or other reproductive harm.

**CERCLA Reportable Quantity (RQ):** None.

**RCRA Classification:** Ignitable.

**TSCA Status:** Registered pesticide, exempt from TSCA regulation. All ingredients are on the TSCA inventory.

**Other: Rotenone**

Illinois toxic substance

Massachusetts Hazardous Substance

New Jersey Special Health Hazardous Substance

Pennsylvania Workplace Hazardous Substance

**Acetone**

Massachusetts Hazardous Substance

New Jersey Environmental Hazardous Substance

New Jersey Special Health Hazardous Substance

New Jersey Workplace Hazardous Substance

Pennsylvania Workplace Hazardous Substance

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**Section 16: Other Information**

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**NFPA Hazard Ratings:**

<b>Health:</b>	3	0	Least	
<b>Flammability:</b>	4	1	Slight	
<b>Reactivity:</b>		0	2	Moderate
			3	High
			4	Severe

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**The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.**