## 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

#### **Section 1: Chemical Identification**

Product: 655-798 Prentox® ExciteR<sup>TM</sup>

EPA Signal Word: CAUTION

Active Ingredients (%): Pyrethrins (6%) (CAS # 8003-34-7)

Piperonyl Butoxide Technical (60.0%) (CAS# 51-03-6)

Chemical Class: Insecticide mixture

Section 2: Composition/Information on Ingredients							
	OSHA	ACGIH	NTP/IARC/OSHA				
Material:	PEL	TLV	Other	Carcinogen			
Pyrethrins	Not Est.	$(TWA) 5 mg/m^3$	Not Est.	No			
Piperonyl Butoxide Technical	Not Est.	Not Est.	Not Est.	No			
Emulsifier (CAS# - Supplier confidential)	Not Est.	Not Est.	Not Est.	No			
Petroleum solvent (CAS # 64742-47-8)			(TWA) 300	ppm*			
*Supplier recommendation							

### **Section 3: Hazards Identification**

### **Symptoms of Acute Exposure**

**Ingestion:** May cause gastrointestinal effects, such as nausea, cramps, vomiting and diarrhea. Ingestion of large quantities can result in nervous system effects, such as dizziness, loss of coordination, tremors, and loss of consciousness. Symptoms usually regress with no long lasting effects. At high oral doses, the type of solvent in this product has caused irreversible damage to the liver and kidney (male only) in rats. These effects are not relevant to humans at occupational levels of exposure.

Eyes: May cause temporary eye irritation.

**Skin:** May be irritating to skin. Repeated contact may cause dermatitis.

**Inhalation:** May cause nasal and respiratory irritation at high concentrations.

Medical Conditions Generally Aggravated by Exposure: None known.

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

**Ingestion: Do not induce vomiting.** This product contains a petroleum solvent. Vomiting may cause aspiration pneumonia. Call a physician or Poison Control Center immediately.

**Inhalation:** Remove victim to fresh air. Administer artificial respiration if necessary.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Call a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash affected areas with soap and water. Contact a physician if irritation persists.

# **Section 5: Fire Fighting Measures**

Fire and Explosion

Flash Point (Method Used): 154° F. (Closed cup)

Flammable Limits: LEL: 0.6 UEL: 7.0 (solvent)

In case of fire: Use CO<sub>2</sub>, foam, dry chemical, or sand extinguishing media. Do not inhale smoke or vapors. Use self-contained breathing apparatus and wear full protective clothing. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. This product is toxic to fish, birds and other wildlife, prevent spread of contaminated runoff.

**Unusual Fire and Explosion Hazards:** Combustible liquid. Keep containers cool to avoid explosive ignition.

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

Wear chemical safety glasses with side shields or chemical goggles, chemical resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber or viton®, shoes and socks, long-sleeved shirt and long pants to prevent contact with the product or its vapors. Cover the spilled area 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. Wash the spill area with water containing a strong detergent, absorb the rinsate, sweep up and put into salvage drum. Dispose of wastes as below.

**Waste disposal method:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. This product is toxic to fish, birds and other wildlife. Do not contaminate the environment through improper disposal.

### **Section 7: Handling and Storage**

Do not use or store near heat or open flame. Exposure to temperatures above 130° F. may cause bursting of containers. Store in a well ventilated, secure area, out of reach of children, domestic animals. Do not contaminate water, food or feed by storage or disposal. Periodically inspect stored materials. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

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

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

**Skin Contact:** To avoid skin contact, wear chemical resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber or viton®, shoes and socks, long-sleeved shirt and long pants.

**Inhalation:** To avoid breathing vapors or mist, wear a NIOSH approved chemical cartridge respirator with organic vapor cartridges and a pesticide pre-filter, or a supplied air respirator.

**Section 9: Physical and Chemical Properties** 

**Appearance:** Yellow to amber liquid. **Odor:** Pleasant woody odor.

Melting Point:

Boiling Point:

Not applicable.

Not determined.

Specific Gravity ( $H_2O = 1$ ): 0.9930

pH: Not applicable.Solubility in Water: Emulsifies.Vapor Pressure: Not determined.

Section 10: Stability and Reactivity

**Reactivity:** 

Stability Stable.

Hazardous Polymerization: Will not occur.

Conditions to avoid: Flame, heat, ignition sources, strong acids

and alkalies.

**Hazardous Decomposition Products:** None known.

**Section 11: Toxicological Information** 

**Acute toxicity/irritation studies:** 

Pyrethrins (58%): **Ingestion:** 

Slightly toxic

Oral LD50 (Rat) 2,370 mg/kg (58% pyrethrins)

**Dermal:** Slightly toxic

Dermal LD50 (Rabbit) >2,000 mg/kg (58% pyrethrins)

**Inhalation:** Slightly toxic

Inhalation LC50 3.4 mg/L (58% pyrethrins)

**Eye Contact:** Minimally irritating (Rabbit) **Skin Contact:** Minimally irritating (Rabbit) **Skin Sensitization:** Not a sensitizer (Guinea Pig)

**Mutagenic Potential:** Pyrethrins – none observed.

**Reproductive Hazard Potential:** Pyrethrins – none observed. **Chronic/Subchronic Toxicity:** Pyrethrins – none observed.

<u>Carcinogenicity/Oncogenicity</u> - Carcinogenicity/Oncogenicity – Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans.

**Other toxicity information:** Not available.

Piperonyl Butoxide (technical grade):

**Acute toxicity/irritation studies:** 

**Ingestion:** Minimally toxic

Oral LD50 (Rat) 4,570 mg/kg – males

7,220 mg/kg - females

**Dermal:** Slightly toxic

Dermal LD50 (Rabbit) >2,000 mg/kg

**Inhalation:** Slightly toxic

Inhalation LC50 >5.9 mg/L

**Eye Contact:** Slightly irritating (Rabbit) **Skin Contact:** Minimally irritating (Rabbit) **Skin Sensitization:** Not a sensitizer (Guinea Pig)

Mutagenic Potential: None observed.

**Reproductive Hazard Potential:** None observed. **Chronic/Subchronic Toxicity:** None observed.

Carcinogenic Potential: Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to Piperonyl Butoxide. The significance of this observation is questionable and under review. The doses at which tumors were observed greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product would result in carcinogenic effects.

# Other toxicity information:

**Mutagenicity:** Piperonyl Butoxide was not genotoxic in several tests, including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

**Teratology/Reproductive effects:** There were no birth defects or adverse effects on reproductive parameters in rats or rabbits. Piperonyl Butoxide is not considered to be teratogenic.

### **Toxicity of other components:**

<u>Emulsifier:</u> The supplier notes that the emulsifier may cause severe eye irritation from contact. Also, prolonged skin contact with soaked clothing may cause irritation. Inhalation may cause chest pain and coughing. Ingestion may cause nausea, vomiting and diarrhea. The supplier does not note any chronic toxicity.

<u>Petroleum solvent:</u> The supplier reports that overexposure to this solvent may cause kidney damage. Exposure to the liquid may cause eye irritation and mild skin irritation. Breathing can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even death. Swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs can cause aspiration pneumonia, which can be fatal.

### **Target Organs:**

<u>Active Ingredients:</u> Central nervous system.

**Inert Ingredients:** 

Emulsifier: Eyes, skin, respiratory tract.

Petroleum Solvent: Respiratory tract, central nervous system and skin.

## **Section 12: Ecological information**

Summary of Effects: Pyrethrins are highly toxic to fish and aquatic organisms.

**Eco-Acute Toxicity:** 

Pyrethrins (58%)	Rainbow	trout 96-hour	LC50	$5.2~\mu\mathrm{g/L}$
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Bluegill sunfish 96-hour LC50  $10 \mu g/L$ Honeybee Acute  $0.022 \mu g/bee$ Daphnia magna 48-hour LC50  $12 \mu g/L$ Bobwhite Quail Oral LD50 >2,000 mg/kg

Bobwhite 5 day dietary LC50 >5,620 ppm Mallard 5 day dietary LC50 >5,620 ppm

Piperonyl Butoxide (technical grade):

Rainbow Trout 96-hour LC506.12 ppmBluegill Sunfish 96-hour LC505.37 ppmDaphnia Magna 48-hour LC500.51 ppmHoneybee Acute>25 μg/beeBobwhite Quail Oral LD50>2,250 mg/kgBobwhite 5 day dietary LC50>5,620 ppmMallard 5 day dietary LC50>5,620 ppm

#### **Eco-Chronic Toxicity:**

Pyrethrins (58%)

Fish (Fathead Minnow) Early life stage MATC

Invertebrate (Daphnia Magna) Life cycle MATC 1.3 µg total pyrethrins/L

Piperonyl Butoxide (technical grade):

Fish (Fathead Minnow) Early life stage MATC

>0.18 mg/L - <0.42 mg/L

 $>1.9 \mu g$  total pyrethrins/L

Invertebrate (Daphnia Magna) life cycle MATC  $>30 \mu g/L - <47 \mu g/L$ 

**Environmental Fate:** Not available.

#### **Section 13: Disposal Considerations**

**Disposal:** do not reuse product containers. Dispose of product containers, waste containers, and residues according to Federal, State and local health and environmental regulations.

Characteristic Waste: Ignitable.
Listed Waste: None.

## **Section 14: Transport Information**

DOT Classification: COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA), NA1993, PGIII,

RQ (PYRETHRINS)

B/L Freight Classification: INSECTICIDES; OTHER THAN POISON, NMFC ITEM 102120

**International Transportation:** Not available.

### **Section 15: Regulatory Information**

#### **SARA Title III Classification:**

Section 311/312: Acute health hazard

Fire hazard

Section 313 Chemicals: Piperonyl Butoxide Technical (60.0%)

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 <u>must</u> include this notice.

**Proposition 65:** Not applicable.

CERCLA Reportable Quantity (RQ): 16.67 lb. RCRA Classification: 16.67 lb.

**TSCA Status:** Exempt from TSCA.

#### **Section 16: Other Information**

## **NFPA Hazard Ratings:**

Health: 0 1 Least 2 Flammability: 1 Slight **Reactivity:** 0 2 Moderate 3 High 4 Severe

**Date Prepared:** May 23, 2003 **Supersedes:** February 3, 2003 **Reason:** Revision of Section 11

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