

Product: 655-471 Prentox® Pyronyl™ Oil Concentrate #525

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

Manufacturer's Name: Prentiss Incorporated
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Section 1: Chemical Identification

Product: 655-471 Prentox® Pyronyl™ Oil Concentrate #525

EPA Signal Word: CAUTION

Active Ingredients (%): Pyrethrins (5%) (CAS # 8003-34-7)
Piperonyl Butoxide Technical (25%) (CAS# 51-03-6)

Chemical Class: Insecticide mixture

Section 2: Composition/Information on Ingredients

Material:	OSHA PEL	ACGIH TLV	NTP/IARC/OSHA Other	Carcinogen
Pyrethrins	Not Est.	(TWA) 5 mg/m ³	Not Est.	No
Piperonyl Butoxide Technical	Not Est.	Not Est.	Not Est.	No
Mineral Oil (CAS#8042-47-5)	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): 170° F. (Closed cup)

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

In case of fire: Use CO₂, 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:	Not applicable.
Boiling Point:	Not determined.
Specific Gravity (H₂O = 1):	0.8888
pH:	Not applicable.
Solubility in Water:	Virtually insoluble.
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 alkalis.
Hazardous Decomposition Products:	None known.

Section 11: Toxicological Information

Acute toxicity/irritation studies:

Pyrethrins (58% manufacturing grade):

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.

Carcinogenic Potential:

Pyrethrins – marginal increases in benign thyroid, parathyroid, ovary and liver tumors were observed in rats and in the lungs of mice, following lifetime high dose exposures to pyrethrins. The significance of this observation is questionable and under review. The doses at which tumors were observed for pyrethrins greatly exceeded potential human exposures from labeled uses. Doses at which these effects were observed greatly exceed anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product would result in carcinogenic effects.

Other toxicity information:

Not available.

Section 12: Ecological information

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

Eco-Acute Toxicity:

Pyrethrins	Rainbow trout 96-hour LC50	5.2 µg/L
	Bluegill sunfish 96-hour LC50	10 µg/L
	Honeybee Acute	0.022 µg/bee
	Daphnia magna 48-hour LC50	12 µg/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:	Rainbow Trout 96-hour LC50	6.12 ppm
	Bluegill Sunfish 96-hour LC50	5.37 ppm
	Daphnia Magna 48-hour LC50	0.51 ppm
	Honeybee Acute	>25 µg/bee
	Bobwhite Quail Oral LD50	>2,250 mg/kg
	Bobwhite 5 day dietary LC50	>5,620 ppm
	Mallard 5 day dietary LC50	>5,620 ppm

Eco-Chronic Toxicity:

Pyrethrins	Fish (Fathead Minnow) Early life stage MATC	>1.9 µg total pyrethrins/L
	Invertebrate (Daphnia Magna) Life cycle MATC	1.3 µg total pyrethrins/L
Piperonyl Butoxide:	Fish (Fathead Minnow) Early life stage MATC	>0.18 mg/L - <0.42 mg/L
	Invertebrate (Daphnia Magna) life cycle MATC	>30 µg/L - <47 µg/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.

