



MATERIAL SAFETY DATA SHEET

General 10 EC

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: pyriproxyfen 10% w/v
Trade Name: General 10 EC
Type of formulation : Emulsifiable Concentrate (EC)
Chemical Name: 2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine
Chemical Formula: C₂₀H₁₉NO₃
Molecular Weight: 321.4

PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>% w/v</i>	<i>CAS #</i>
Pyriproxyfen	10%	[95737-68-1]
<i>Inert ingredient:</i>		
Emulsifier	7 %	--
Solvent	Up to 100%	--

HAZARDS IDENTIFICATION:

Signs and Symptoms of systemic Effects:

Eyes: This product is expected to cause brief and /or minor eye irritation. The expected adverse effects resulting from an exposure may include redness and possibly some minor swelling.



Skin: This product has been shown to cause prolonged and/ or significant skin irritation. The expected adverse health effects resulting from an exposure may include redness swelling and pain for an extended period of time.

This product is not expected to cause allergic skin reactions.

This product has been shown to be slightly toxic when absorbed through the skin. The expected adverse systemic health effects resulting from an exposure are described above.

Ingestion: may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product has been shown to be slightly toxic when ingested.

Inhalation: minimally toxic when inhaled. The expected adverse systemic health effects are described above.

FIRST AID MEASURES:

EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes
- Call a poison control center or doctor for treatment advice

Ingestion:

- Call a poison control center or doctor for treatment advice
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center –Do not give anything by mouth to an unconscious person.

Inhalation:

- Move person to fresh air.
- If person is not breathing, give artificial respiration.

FIRE FIGHTING MEASURES:

Flash point: 45 °C

Flammable limits (% in air): Lower: NDA Upper: NDA

Flammability: moderate.

Reactivity: least

Fire Fighting instructions:



Liquid evaporates and forms vapor which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85 F.

Fire Fighting Guidance

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential 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.

ACCIDENTAL RELEASE MEASURES:

Steps to be taken if material is released or spilled:

.For spills on land:

-Containment: Avoid run off into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

-Clean up: clean up spill immediately. Absorb spill with inert material then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

For spills in water:

This product forms an emulsion in water. Stop or reduce contamination of any water

HANDLING AND STORAGE

Store the product in a well-ventilated, secure area out of reach of children and domestic animals. Do not store near heat or open flame. Do not store food or feed in storage area. Prevent eating, drinking or smoking in areas where there is a potential exposure to the product. Wash hands before eating, drinking or smoking after using the product.



EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.

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

Skin Contact: To avoid skin contact, wear rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing dust, use a particulate filter, Select P-100 type as appropriate for the air contaminants present. Filter efficiency will be 99.97% as appropriate for the size distribution of dusts present.

Personnel Protection:

The product is dangerous, particularly the concentrate. It is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Brownish color.

Odor: aromatic.

PH(Acidity): 7.0 (25 °C)

Density: 1.23 gm / cm³ (20)

Solubility in water: Emulsion.

Emulsion Stability: Stable.

STABILITY AND REACTIVITY:

Stability: Relatively stable to hydrolysis in neutral & slightly acidic media.

Hazardous: Will not occur.

Conditions to Avoid: Excessive heat and direct sunlight.

TOXICOLOGICAL INFORMATION:

Acute toxicity:

Oral LD50 (Rat)	>5000mg/kg	toxic
Dermal LD50 (Rat)	>200mg/kg	slightly toxic
Inhalation (LC50) (Rat)	>1.3 mg/kg	Moderately toxic
Skin irritation (Rabbit)	not skin irritant	
Eye irritation (Rabbit)	Slightly irritant	

Carcinogenicity) : It does not appear that pyriproxyfen would pose a cancer threat to humans at low levels of exposure .

Mutagenicity: None observed.

Reproduction: No effects on reproduction were produced even at 5000 ppm , the highest dose tested .

Teratogenic: None observed

ECOLOGICAL INFORMATION

Aquatic toxicity

LC50 (96Hr) Rainbow trout greater than 325 μ /l

Bee toxicity: Slightly toxic to bees.

Effect on birds: for mallard ducks Oral LD50, greater than 2000 mg/kg

DISPOSAL CONSIDERATION:

Pesticide wastes are toxic, do not reuse product containers.

Dispose of product containers, waste containers, and residues according to local health and environmental regulations.

