



## MATERIAL SAFETY DATA SHEET

PRODUCT : Pyriproxyfen 10% EC

PRODUCT DESIGNATION : Insecticide

### **Section 1. Product & Company Identification**

Common Name : Pyriproxyfen  
Grade : Formulation  
Active Ingredient : Pyriproxyfen  
Chemical Name of Active Ingredient (IUPAC) : 4-Phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether  
Chemical Family of A. I. : Pyrethroid  
Molecular Formula of A. I. : C<sub>20</sub>H<sub>19</sub>NO<sub>3</sub>  
Molecular Mass of A. I. : 321.4  
Manufacturer & Supplier : **M/s PERFECT SOLUTIONS**  
**Office Add:** B-371, Paschim Vihar, New Delhi - 110063 (India)  
**Factory Add:** 15/1, 15/2, 15/3 Industrial Estate, Vidisha - 464001 (M.P)  
Telephone Number : +91 8375844625

### **Section 2. Composition / Information on Ingredients**

Name of the Component	Concentration % w/w
Pyriproxyfen a.i	10.00% w/w
Other Ingredients	90.00% w/w
Total	100 % w/w

### **Section 3. Hazards Identification**

Precautionary Statement:

P264: Wash hands and exposed body parts thoroughly after handling P273: Avoid release to the environment



P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

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## Section 4. First Aid Measures

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**If in Eyes :** Immediately flush with plenty of clean water for 15-20 minutes. Remove contact lenses if present after 5 minutes of washing. Get medical attention

**If on Skin :** Take off contaminated clothing, rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or a doctor

**If Inhaled :** Remove person to fresh air, if required give artificial respiration. Call doctor or poison control centre

**If Swallowed :** Call doctor or poison control centre immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or doctor. Do not give anything by mouth to an unconscious person

**Note to Physician :** Diagnosis can be confirmed estimating cholinesterase activity of blood plasma. Treat symptomatically.

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## Section 5. Fire Fighting Measures

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**Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide. Big fire: foam, water spray. Specific Hazard During Fire: In case of fire, hazardous gases might be produced. Combustion products: toxic and corrosive products such as NO<sub>x</sub> , CO. The product is combustible. Avoid electrostatic discharge or smoking by the product. Above the flash point, explosive mixtures can be formed.

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## Section 6. Accidental Release Measures

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**Personal Protection :** Observe all protection and safety precautions. Depending on the magnitude of the spill, use of eye protection, gloves and boots when cleaning up spills are recommended. For PPE see Section 8



**Steps to be taken in case of a spill :** It is recommended to have a predetermined plan / SOP for the handling of spills. Stop the source of the spill immediately, if safe to do so. Contain the spill to prevent any further contamination of soil or water. Keep all bystanders away. Wear full-length clothing and PVC gloves. Shovel and collect the spilled material / contaminated absorbent and place in suitable containers. Thoroughly scrub the floor or other impervious surfaces with a strong industrial detergent and rinse with water.

**Spills in water** should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal through incineration.

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## Section 7. Handling & Storage

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**Precautions for Safe Handling:** General precautions for handling of chemicals should be applied. Provide good ventilation system, or local exhaust ventilation if necessary, in working area.

**Conditions for Safe Storage:** Store in a dry and cool place where there is no direct sunlight. Keep a container in a well-ventilated place. Keep away from heat.

**Incompatibles:** Do not mix with water except during preparation procedures.

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## Section 8. Exposure Control, Personal Protection

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**Exposure Limit Values :** Not known

**Personal Protection :** When used in a closed / automated system, personal protection equipment may not be required. When closed system is not possible in case of maintenance, repair, sampling etc, systems must be made nonhazardous before opening

**Respiratory Protection :** The product is likely to pose inhalation exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a vapours or mist, workers should put on respiratory protection equipment with a universal filter

**Protective Gloves :** Wear heavy duty natural rubber gloves **Eye Protection :** Wear goggles, face shield or safety glasses. It is recommended to have an eye wash fountain available in the work area.

**Skin Protection :** Wear appropriate protective clothing to prevent direct skin contact



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## Section 9. Physical and Chemical Properties

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Appearance / state	:	Colourless or pale yellow transparent liquid
Colour	:	Colourless or pale yellow
Odour	:	Slightly characteristic odour
Boiling point	:	NA
Vapour pressure	:	NA
Ph	:	4-7
Flash Point		66.8°C
Relative Density	:	0.914 – 0.934 (20°C)
Water Solubility	:	Fully Miscible

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## Section 10. Stability & Reactivity

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**Reactivity:** No data available. **Chemical Stability:** Stable for 3 years after manufacturing under recommended storage and handling conditions.

**Hazardous Reaction:** No data available. **Condition to Avoid:** Avoid high temperature and direct sunlight.

**Incompatible Material:** No data available.

**Hazardous Decomposition Product:** May emit toxic and irritating gases when in contact with or left by fire.

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## Section 11. Toxicological Information

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<b>Acute Oral Toxicity- LD<sub>50</sub></b>	Rat >5000mg/kg
<b>Acute Dermal Toxicity- LD<sub>50</sub></b>	Rabbit: >2000 mg/kg
<b>Acute Inhalation - LC<sub>50</sub></b>	Rat >1.3mg/l (4h)
<b>Eye irritation</b>	Slight Irritating to eyes ( Rabbit)
<b>Skin Irritation</b>	No irritating ( Rabbit)
<b>Skin Sensitization</b>	Non skin sensitizer

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## Section 12. Ecological Information

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**Acute Toxicity Fish (Oncorhynchus mykiss), LC<sub>50</sub> ,96 hr 0.325 mg/L**



**Daphnia (Daphnia magna)**, EC50, 48 hr 0.40 mg/L

**Algae (Senastrum capricornutum)**, EC50, 72 hr 0.064 mg/L

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## Section 13. Disposal Consideration

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**Product:** Should be taken to a particular disposal site or incineration plant in accordance with current regulations. Consult with site operator and/or the authority responsible for the disposal.

**Contaminated packaging:** Discard according to all national and local regulations.

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## Section 14. Transport Information

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### IMDG Classification

Shipping name : Environmentally Hazardous Substance, Liquid, N.O.S

Class : 9

Packing group : III

UN number : 3082

Marine Pollutant : Yes

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## Section 15. Regulatory Information

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### Classification:

**Skin Irritation**, Cat. 2

**Eye Irritation**, Cat. 2

**Hazardous to the Aquatic Environment** – Acute Hazard, Cat. 1

**Hazardous to the Aquatic Environment** – Chronic Hazard, Cat. 2

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## Section 16. Other Information

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All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If



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