

## 1: IDENTIFICATION

<b>Chemical Name</b>	Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate Pyriproxyfen: 4-Phenoxyphenyl (RS)-2-(2-pyridyloxy) propyl ether		
<b>Synonyms</b>	Pyriproxyfen 10% + Bifenthrin 10% EC	<b>Trade Name</b>	<b>ADONIX NEO</b>
<b>Uses</b>	Insecticide	<b>Molecular Formula</b>	$C_{23}H_{22}ClF_3O_2 + C_{20}H_{19}NO_3$
<b>Manufacturer/ Supplier</b>	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
<b>Emergency Contact</b>	9503095030	<b>E-mail</b>	<a href="mailto:info@agrostar.in">info@agrostar.in</a>

## 2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Bifenthrin	82657-04-3	10.00%
Pyriproxyfen	95737-68-1	10.00%
Emulsifiers	-	10.00%
Aromatic Solvent	-	Q.S

## 3: HAZARD IDENTIFICATION

<b>Health Hazard:</b>	Harmful if swallowed. Irritating to eyes. Avoid contact with skin and eyes. Keep locked up and out of the reach of children. Harmful if inhaled; Skin irritant; Eye irritant ; Harmful if ingested
<b>Environmental Hazard:</b>	Toxic to fish and aquatic arthropods. Toxic to bees.

## 4: FIRST AID MEASURES

**General:** Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

**Inhalation:** Move patients to fresh air. Keep the patients warm and at rest. If person is not breathing then give artificial respiration, preferably mouth-to-mouth if possible. Allow patients to rest. Immediately seek medical attention.

**Ingestion:** Rinse mouth with water and give plenty of water to drink. Do not induce vomiting unless told by doctor. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

**Skin Contact:** In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

**Eye Contact:** Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

**Note to Physician:** No specific Antidote. Treat symptomatically.

## 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

**Specific Hazards:** There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Toxic fumes may release on burning.

**Hazardous Thermal (de)composition:** In the event of fire, Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride may release.

**Special Procedures:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.

**Protection of Fire Fighters:** Do not breathe a fumes. Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

## 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing fume. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

**Environmental Precaution:** Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

**Methods for Cleaning-up:** For small spill, surface should be swept up by means of an absorptive material such as sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of in accordance with the instruction provided in section 13. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations. If significant amount of product enters into drain, notify the local authorities.

## 7: HANDLING & STORAGE

**Handling:** Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Good personal hygiene procedures must be practiced.

**Specific Conditions:** Good local exhaust ventilation.

**Storage:** Store in dry, cool, well-ventilated area and away from direct sunlight. Keep in original container and tightly closed when not in use. Store in locked room and away from children, seeds, fertilizer, foods and animal feeds.

## 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure area is well-ventilated, especially confined area. Handle in accordance with good industrial hygiene and safety practice.

**General Protection:** Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

**Personal Protection:** Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

**Respiratory Protection:** Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.

**Skin Protection:** Wear suitable protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

**Hand Protection:** Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

**Eye Protection:** Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

**Others:** Wash clothing before reusing.

## 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance :</b> Liquid	<b>Colour:</b> Light brown	<b>Physical State:</b> Liquid	<b>Melting Point [°C]:</b> Not applicable
<b>Solubility in Water:</b> Emulsifies	<b>Odour :</b> Characteristic odour	<b>pH :</b> 5- 7	<b>Density [g/cc]:</b> .16 to 1.17 at 20 °C.

## 10: STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances. **Conditions to Avoid:** Direct sunlight, heat and fire.

**Hazardous Decomp. Products:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen.

**Hazardous Reactions :** Hazardous polymerization will not occur.

**Material to Avoid:** Oxidizing agents

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 1000	Rat inhalation LC50 [mg/l/1h] : >2 mg	Skin irritation (rabbit): Non-irritant
Dermal (rat) LD50 [mg/kg] : >2000	Skin Sensitization (Guinea Pig): Non-Sensitizer	Eye irritation (rabbit): Mild Irritant

## 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Toxicity to birds- >2000 mg/kg bobwhite Quail      Toxicity to bees- Non-toxic to bees      Toxicity to Daphnia- Highly toxic to Daphnia

**Bio-accumulation Potential:** No data available.

**Persistence, Degradability and Mobility in Soil:** No data available

## 13: DISPOSAL CONSIDERATION

**Waste-disposal Procedures:** Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

**Contaminated Packaging:** Empty remaining contents and the rinse containers thrice before disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers unless they are specifically designed to be refilled. Empty containers and product should not be burnt.

## 14: TRANSPORT INFORMATION

**UN No.** 3082      **Proper Shipping Name:** Environmentally hazardous substance

### IMDG Classification:

Class-9      Packing group-III      Marine Pollutant-Yes

## 15: REGULATORY INFORMATION

**Hazard Symbol:** Xn Harmful ; Xi Irritant

**Phrases R:** R22, R36, R65

**Phrases S:** S 1/2, S13, S24/25, S36/37

## 16: OTHER INFORMATION

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