

**1: IDENTIFICATION**

<b>Chemical Name</b>	Diafenthiuron : 1-tert-butyl-3-[4-phenoxy-2,6-di(propan-2-yl)phenyl]thiourea Pyriproxyfen: 4-Phenoxyphenyl (RS)-2-(2-pyridyloxy) propyl ether	
<b>Synonyms</b>	Pyriproxyfen 5% + Diafenthiuron 25% SE	
<b>Uses</b>	Insecticide	<b>Trade Name ADONIX</b>
<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>Molecular Formula</b> C <sub>23</sub> H <sub>32</sub> N <sub>2</sub> OS + C <sub>20</sub> H <sub>19</sub> NO <sub>3</sub>
<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)
Diafenthiuron	80060-09-9	25.00%
Pyriproxyfen	95737-68-1	5.00%
Inert Ingredients	-	Q.S

**3: HAZARD IDENTIFICATION**

<b>Physical/ Chemical Hazard:</b>	PRIORITY IDENTIFIER : Warning Keep out of reach of children
<b>Environmental Hazard:</b>	H 400 Very toxic to aquatic life H 410 Toxic to aquatic life, may cause long term adverse effects in the aquatic environment.

**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

**Specific Hazards:** The product can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion

**Hazardous Thermal (de)composition:** No data available

**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 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:** Clean-up mechanically and place in appropriate disposal containers. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations. Wear suitable protective equipment.

**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. Keep in original container and tightly closed when not in use. Keep product away from 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

**Appearance :** White to off white colour liquid

**Physical State:** Liquid

**Colour:** White to off-white liquid

**Odour:** Odourless

**Melting Point [°C]:** Not applicable

**Solubility in water:** No data

**pH :** 6.5 – 9.0 (1% Aqueous Solution)

**Density [g/cc]:** 1.00 – 1.10

## 10:STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances.      **Conditions to avoid:** Heat, flames and sparks.      **Reactivity:** Non-reactive

**Hazardous decomp. products:** Combustion or thermal decomposition will involve toxic and irritant vapors.

**Possibility of hazardous reactions :** No dangerous reaction known under conditions of normal use.

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >625

Rat inhalation LC50 [mg/l/1h] : 4920

Skin irritation (rabbit): Non-irritant

Dermal (rat) LD50 [mg/kg] : >2000

Skin Sensitization (Guinea Pig): Non-Sensitizer

Eye irritation (rabbit): Irritant

## 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Fish LC50 (96 hrs) mg/L: < 0.5

Bird LC50 (96 hrs) mg/kg: >1500

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

**Persistence, Degradability and Mobility in soil:** Not persistent in the environment; Both solvents are biodegradable.

## 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

## 14: TRANSPORT INFORMATION

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

**Land transport (ADR/RID):** -

**Sea transport (IMO/IMDG):** Class-9, Packing group-III, Marine Pollutant-Yes

**Air transport (IATA/ICAO):** -

## 15: REGULATORY INFORMATION

**Hazard Symbol:** GHS09

**Phrases R:** R43, R50/53

**Phrases S:** S2, S24, S28, S36/37, S60

## 16: OTHER INFORMATION

**DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

----- END -----