

#### 1: IDENTIFICATION

Chemical Name	Azoxystrobin: methyl (E)-2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate Chlorothalonil: 2,4,5,6-tetrachlorobenzene-1,3-dicarbonitrile		
Synonyms	Azoxystrobin 4.8% + Chlorothalonil 40 % SC		
Uses	Fungicide		
Manufacturer/ Supplier	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		
Emergency Contact	9503095030	E-mail	<a href="mailto:info@agrostar.in">info@agrostar.in</a>

#### 2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Azoxystrobin	131860-33-8	4.80%
Chlorothalonil	1897-45-6	40.00%

#### 3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Azoxystrobin: Acute Tox. 3; Chlorothalonil: Acute Tox. 2;	Aquatic Chronic 1; Skin Sens. 1;	Aquatic Acute 1; Aquatic Acute 1;	Aquatic Chronic 1
Human Health Hazard:	H317 May cause an allergic skin reaction. H318 Causes serious eye damage H335 May cause respiratory irritation.		H330 Fatal if inhaled. H351 Suspected of causing cancer	
Environmental Hazard:	H410 Very toxic to aquatic life with long lasting effects.		H400 Very toxic to aquatic life	

#### 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 and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, treat with artificial respiration. Immediately seek medical attention if symptoms are severe or persist.

**Ingestion:** Rinse mouth with water thoroughly and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention or poison control center immediately and show this container or label.

**Skin Contact:** In case of contact with product, remove contaminated clothes and wash exposed skin area with plenty of water and soap immediately. Seek medical attention if irritation persists.

**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 or fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

**Unsuitable Extinguishing Media:** Solid water stream, as it may scatter and spread the fire

**Specific Hazards:** Fire will produce dense black smoke containing hazardous products of combustion as the product contains combustible organic components. Exposure to decomposition products may be a hazard to health

**Hazardous Thermal (de)composition:** No hazardous decomposition products are known.

**Special Procedures:** Cool closed containers exposed to fire with water spray. Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Protection of Fire Fighters:** Do not breathe fumes. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

#### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas and keep them away from and upwind of spill/leak.

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

**Methods for Cleaning-up:** Adsorb spillages using non-combustible absorbent materials such as sand, earth, diatomaceous earth, vermiculite. Collect and transfer them into waste disposal containers. Clean contaminated floors and objects thoroughly with water and detergents. Avoid solvents. 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 and other exposed areas with mild soap and water before and after handling material. Wear protective equipment to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

**Specific Conditions:** Good local exhaust ventilation. Ensure there is no open flame, spark, light or any other source of ignition while handling

**Storage:** Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep product away from children, seeds, fertilizer, foods and animal feeds. Protect from heat, flame, or any ignition source.

## 8:EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure adequate ventilation. Maintain air concentrations below occupational exposure standards. Handle in accordance with good industrial hygiene and safety practice.

**General Protection:** Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. 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:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators with a half face mask. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self contained breathing apparatus must be used.

**Skin Protection:** Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact.

**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 should be used. Safety showers and eyewash should be easily available.

**Others:** Wash clothing before reusing.

## 9:PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b> Suspension	<b>Physical State:</b> Liquid	<b>Solubility in Water:</b> No data available
<b>Colour:</b> Light yellow to greyish yellow	<b>Density[g/cc]:</b> 1.28 - 1.32 @ 20°C	<b>Odour:</b> No data available
<b>Auto-ignition Temperature[°C]:</b> >650	<b>pH:</b> 6-7 @ 20°C-25°C (conc. 100% w/v)	

## 10:STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances. **Conditions to Avoid:** No decomposition if used as directed

**Hazardous Decomp. Products:** No hazardous decomposition products are known **Materials to Avoid:** None known

## 11: TOXICOLOGICAL INFORMATION

### Chlorothalonil:

Rat oral LD50 [mg/kg]: >5000	Rat inhalation LC50 [mg/l/4h] : >0.1	Skin irritation (rabbit): Non-irritant
Dermal (rat) LD50 [mg/kg]: >5000	Skin Sensitization (Guinea Pig): Sensitizer	Eye irritation (rabbit): Risk of serious damage to eyes.

### Azoxystrobin:

Rat oral LD50 [mg/kg] : >5000	Rat inhalation LC50 [mg/l/4h] : >0.7	Skin irritation (rabbit): Non-irritant
Dermal (rat) LD50 [mg/kg]: >2000	Skin Sensitization (Guinea Pig): Non-sensitizer	Eye irritation (rabbit): Non-irritant

## 12: ECOLOGICAL INFORMATION

### Chlorothalonil:

Rainbow trout LC50 (96 hrs)[mg/L]: 0.039	Daphnia magna EC50(48 hrs) [mg/L]: 0.07	Freshwater diatom (96 hrs)[mg/L]: 0.02
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**Bio-accumulation Potential:** Low bioaccumulation potential

**Persistence, Degradability and Mobility in soil:** Degradation half life: < 5 d (20 °C)

### Azoxystrobin:

Rainbow trout LC50 (96 hrs)[mg/L]: 0.47	Daphnia magna EC50(48 hrs) [mg/L]: 0.28	Freshwater green alga (96 hrs) [mg/L]: 2
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**Bio-accumulation Potential:** Does not bioaccumulate.

**Persistence, Degradability and Mobility in soil:** Not readily biodegradable. Degradation half life: 214 d

## 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. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated Packaging:** Contaminated packaging should be emptied and rinse thrice. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty container.

## 14: TRANSPORT INFORMATION

**UN No.** 3082 **Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S (Azoxystrobin And Chlorothalonil)

**Land Transport (ADR/RID):** Class-9, Packing Group-III **Air Transport (IATA / ICAO):** Class-9 Packing group-III, Environmental hazard mark-Yes

**Sea Transport (IMO/IMDG):** Class-9, Packing group-III, Marine Pollutant-Yes, EmS Code: F-A, S-F

## 15: REGULATORY INFORMATION

**H-Statement:** H 317, H318, H 330, H 335, H 351, H400, H410

**Hazard Symbol:** GHS05, GHS06, GHS08, GHS09

## 16: OTHER INFORMATION

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