



BR AGROTECH LIMITED

Regd. Off. : 1505, Vikram Tower, Rajendra Place, New Delhi - 110008
Ph. : +91-11-43661111 (30 lines) • Fax: +91-11-43661100, 41538600
E-mail : info@bharatgroup.co.in • Website : www.bharatgroup.co.in
CIN : U74899DL2000PLC103860

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Active Ingredient (%):	Azoxystrobin (18.2%)	CAS No.:	131860-33-8
Chemical Name:	Methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy] phenyl}-3-methoxyacrylate		
Chemical Class:	A beta-methoxyacrylate fungicide		
Active Ingredient (%):	Difenoconazole (11.4%)	CAS No.:	119446-68-3
Chemical Name:	1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-		
Chemical Class	Triazole Fungicide		

Supplier: BR Agrotech Limited

Address: 620/3, GIDC, Panoli, Ankleshwar-394115. Dist. Bharuch. GUJARAT, INDIA.

Website <http://www.bharatgroup.co.in>

2. Composition / Information on ingredients

Chemical Name	Cas No	Percent Or Content(W/W)
Azoxystrobin A.I.	131860-33-8	18.20 %
Difenoconazole A.I.	119446-68-3	11.40%
Other ingredients	---	70.40 %

3. Health Hazards Identification

Health Hazards : Acute exposure may cause Nausea, Headache, Diarrhoea if ingested large quantity. Do not take it orally. May cause eye or dermal irritation if exposed to eye or skin. Avoid eye and skin contact. Harmful if inhaled. Avoid breathing dust or spray mist. Emergency treatment: If inhaled, remove victim to fresh air. If gets in eyes, flush with water. If falls on skin, wash with soap and water. Remove contaminated clothing. If irritation persists, contact a doctor. If swallowed, induce vomiting by touching back of throat with finger or by giving an ounce of syrup of ipecac with 2 glasses of water. Do not give anything by mouth to an unconscious person.

Emergency : Warning! Keep out of reach of children. Toxic if swallowed and inhaled. Contact can cause eye or skin irritation.

Skin and Eyes : Avoid contact with mouth, skin and eyes.

Entry route : Ingestion, Inhalation, Contact with eye or skin.

Symptoms of poisoning : Eye contact may initially cause eye irritation with discomfort, tearing or blurring of vision. Repeated

Dermal exposure may lead to skin irritation with discomfort or rash.

(AN ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY)

WORKS : Unit-I : Trilokpur Road, Kala Amb, Tehsil Nahan, Distt. Sirmour - 173030, (H.P.) Phones : 01702 - 238757, 01734 - 325300
Unit-II : Industrial Area, SIDCO, Kathua - 184101 (J&K) Phone : 01922 - 203025 Telefax : 01922 - 232165
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4. First Aid Measures

If poisoning occurs, call a doctor or Poison Information Centre.

Eyes: Hold eye open and rinse eyes gently with clean water for at least 15 minutes.

Skin: Take off the contaminated clothing; wash exposed skin thoroughly with soap & water. Inhalation: Remove from contaminated source to open space / fresh air; maintain respiration. Ingestion: Seek medical advice; do not give anything by mouth to an unconscious person.

Antidote: Treat symptomatically.

5. Fire Fighting Measures

Flash point: Not Flammable

Explosion sensitivity to static Electricity: Yes

Oxidizer: No

Corrosive Material: No

Flammability LEL % V: Not pertinent

UEL % V: Not pertinent

Organic Peroxide : No

Auto-ignition temperature: DNA

Explosion sensitivity to Impact: Not explosive

Flammable Material: No

Pyrophoric Material: No

Hazardous polymerization: No

Fire fighting media: Fog, Foam, dry agent

Special procedure: No

6. Accidental Release Measures

Steps to be taken, if material spills: Evacuate and cut off endangered area. Sweep up spilled material in dry state without creating dust cloud. Keep in suitable closed bags for disposal. Do not allow material to enter water bodies.

Waste Disposal method: Local regulations should be adhered to. Destroy the empty containers in a safe and at authorized places. Incineration in controlled furnace. If burnt, avoid inhalation of smoke (if burning permitted). Never re-use empty packs.

7. Handling and Storage

Handle and open container in a manner as to avoid spillage.

Store in the original container in a cool, dry, well-ventilated area under lock and key. Do not store for long periods in direct sunlight. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or tobacco or smoking.

8. Exposure Controls/Personal Protection

Engineering Controls : Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

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- Ingestion** : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product.
- Eye Protection** : Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eye wash should be easily available.
- Skin Protection** : Chemical resistant gloves, coveralls socks, apron and chemical resistant foot covering should always be used while handling the product.
- Respiratory protection** : Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.

Use protective clothing while handling pesticides. Remove clothing immediately if it gets in and put on fresh clothing. Decontaminate clothes and equipment with soap and water.

Eyewash and washing facilities must be readily available, for emergency use.

9. Physical and Chemical Properties

Appearance:	Opaque pale yellow liquid
Odor:	Negligible
Melting Point :	Not Applicable
Boiling Point :	Not Available
Specific Gravity/Density:	1.08 g/ml @ 68°F (20°C)
pH :	6 - 8
Solubility in H ₂ O	
Azoxystrobin :	6 mg/l in water @ 68°F (20°C)
Difenoconazole :	15mg/l @ 77°F (25°C)
Vapor Pressure	
Azoxystrobin :	8.25 x 10 ⁽⁻¹³⁾ mmHg @ 68°F (20°C)
Difenoconazole :	2.5 x 10 ⁽⁻¹⁰⁾ mmHg @ 77°F (25°C)

10. Stability and Reactivity

Chemical stability: Stable under normal condition. Incompatible with other material: None

Reactivity: None

Conditions to avoid: Exposure to moisture, extreme heat and direct prolonged sunlight.

Hazardous reaction product: None

11. Toxicological Information

Acute Oral LD₅₀	:	For Rat >5,000 mg/kg
Acute Dermal LD₅₀	:	For Rat >2,000 mg/kg
Acute Inhalation LC₅₀	:	For Rat(4hr): >23.50 mg/l (MM); >5 mg/l (CE)
Skin Irritation	:	Rabbit (no skin irritation)
Eye Irritation	:	Rabbit (no eye irritation)
Skin Sensitization	:	Did not cause sensitization on lab Animals (guinea pig)

12. Ecological Information

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Summary of Effects

Azoxystrobin : Very toxic to aquatic life.
Difenoconazole: Very toxic to aquatic life.

Ecotoxicity Effects

Azoxystrobin :

Fish (Rainbow Trout) 96-hour LC50 470 ppb
Green Algae 5-day EC50 106 ppb
Invertebrate (Water Flea) 48-hour EC50 259 ppb
Bird (Mallard Duck) 14-day LD50 > 250 mg/kg
Difenoconazole:

Fish (Rainbow Trout) 96-hour LC50 1.06 ppm
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.77 ppm
Bird (Mallard Duck) 21-day LD50 > 2150 mg/kg

13. Disposal Considerations

- Disposal** : This material must be disposed of as a Hazardous Waste. Disposal should be in accordance with local, nation or state rule and regulations.
- Disposal of empty Containers** : Break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

14. Transport Information

Proper Shipping Name: Environmentally Hazardous Substance, Liquid,
N.O.S.(Azoxystrobin/Difenoconazole)
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III
Packing Auth.: 914

15. Regulatory Information

**Hazard
symbol**



Dangerous for the environment (N)

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- Risk Phrase** **R 23/25:** Toxic by inhalation and if swallowed.
 R 51/53: Toxic to aquatic organisms, may cause long term adverse effects
 in the aquatic environment.
- Safety phrase** **S 1/2:** Keep locked up and out of reach of children.
 S 26: In case of contact with eyes rinse immediately with plenty of water
 and seek medical advice.
 S 35: The material and its container must be disposed off in a safe way.

16. Other Information

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 the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS