



MATERIAL SAFETY DATA SHEET

PRODUCT : Azoxystrobin 11% + Tebuconazole 18.3% SC
PRODUCT DESIGNATION : Fungicide
TRADE NAME : **PERNAZOL**

Section 1. Product & Company Identification

Common Name : Azoxystrobin 11% + Tebuconazole 18.3% SC
Grade : Formulation
Active Ingredient : Azoxystrobin, Tebuconazole
Chemical Name of Active Ingredient (IUPAC) : **Azoxystrobin** : methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate
Tebuconazole: (RS)- 1- p-chlorophenyl- 4,4-dimethyl-3- (1H- 1,2,4-triazol-1-ylmethyl)pentan- 3-ol
Chemical Family of A. I. : **Azoxystrobin**: Methoxyacrylate
Tebuconazole: Triazole
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

Identity	% W/W content
Azoxystrobin a.i.	11.00 % w/w
Tebuconazole a.i.	18.30% w/w
Other ingredients	70.70
Total	100.00%

Section 3. Hazards Identification

Ingestion Harmful if swallowed & May cause lung damage Skin contact Irritating to skin,
May cause sensitization by skin contact Eye contact Risk of serious damage to eyes.



Section 4. First Aid Measures

Eyes Rinse eyes with clean water for several minutes and immediately call a physician.

Skin Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Ingestion Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting. If medical assistance is not readily available, and poisoning symptoms are severe, vomiting should be induced by tickling the finger on the back of the patient's throat.

Inhalation remove to fresh air.

Note to physician Treat as a cholinesterase inhibitor.

Antidote. No antidote available. Treat symptomatically

Section 5. Fire Fighting Measures

Combustibility Yes

Suitable Extinguishing Media Dry chemical extinguisher, foam, carbon dioxide or water spray (Do not use direct jet of water).

Special Hazards during Fire Fighting Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Protective Equipment for Fire Fighting Use self-contained breathing apparatus. Wear protective equipment.

Section 6. Accidental Release Measures

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g., by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.



Section 7. Handling & Storage

Handling information Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves

Special Instructions for Storage DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers.

Section 8. Exposure Control, Personal Protection

Breathing Protection In case of heavy exposure, wear: Gas mask with universal filter.

Eye protection Goggles or face-shield
Body Protection Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy duty shoes or boots.

Hand Protection Chemical-resistant gloves

Precautionary measures after work Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

Section 9. Physical and Chemical Properties

Appearance / state	:	Liquid
Colour	:	White to off white
Odour	:	Odorless
Density	:	1.08g/ml
Partition Coefficient	:	Log Pow = 2.5 (25°C) (Azoxystrobin) Log Pow = 3.7 (25°C) (Tebuconazole)

Section 10. Stability & Reactivity

Chemical Stability: Stable, however may decompose if heated.

Incompatibility: Avoid temperatures above (115°F, 46°C) and high moisture.



Hazardous decomposition: Oxides of Carbon and Nitrogen.

Section 11. Toxicological Information

Acute oral LD50: 2000 mg/kg (rat.)

Acute dermal LD50: >2000 mg/kg (rat)

Acute inhalation LC50: LC50 (4h) for rats 4.79 mg/l air.

Acute skin irritation: Non-irritating (rabbit).

Acute eye irritation: Non-irritating (rabbit)

Skin sensitization: Non-sensitizer

Section 12. Ecological Information

Bird : Acute oral LD50 for mallard ducks and bobwhite quail >2000 mg/kg (Azoxystrobin)
Acute oral LD50 for male Japanese quail 4438, female Japanese quail 2912, bobwhite quail 1988 mg/kg b.w.(Tebuconazole)

Fish : LC50 – (96h) for rainbow trout 0.47, bluegill sunfish 1.09 mg/l (Azoxystrobin) LC50 – (96h) for rainbow trout 4.4, bluegill sunfish 5.7 mg/l (Tebuconazole)

Daphnia : EC50 – 80 µg/l - 48 h (Azoxystrobin) LC50 -4.2 mg/l-48 h (Tebuconazole)

Bees : LD50 for honeybee (oral) >83.05 µg/bee ;contact >200 µg/bee (Azoxystrobin) LD50 (48 h,oral) 83 µg/bee; contact >200 µg/bee (Tebuconazole)

Section 13. Disposal Consideration

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.

Section 14. Transport Information

IMDG Classification



Proper shipping Name	Environmentally hazardous substance, Liquid, N.O.S (Azoxystrobin + Tebuconazole)
Class	9
Packing Group	III
UN number	3082
Marine pollutant	Yes

Section 15. Regulatory Information

Indication of danger: Harmful Risk phrases

R 23/25: toxic by inhalation and if swallowed.

Safety phrases

S2 - Keep out of the reach of children S36 - Wear suitable protective clothing S53-

Avoid exposure— obtain special instructions before use S60 - This material and its container must be disposed of as hazardous waste S64 - If swallowed, rinse mouth with water (only if the person is conscious)

Section 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. Accordingly, no guarantee or warrantee expressed or implied is made by PERFECT SOLUTIONS, as to the results to be obtained based upon the user's use of the information, nor does PERFECT SOLUTIONS, assume any liability arising out of user's use of the information.

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