



# MATERIAL SAFETY DATA SHEET

**Manufacturer** PARIJAT INDUSTRIES (INDIA) PVT. LTD.  
M-77, I & II Floor, M-Block Market,  
Greater Kailash-II, New Delhi-110 048, India

**Phone** +91-11-45766000

**Fax** +91-11-45766055

## 1. PRODUCT IDENTIFICATION

**Product** Azoxystrobin 25% SC

**Brand Name** EMISSARIUS

**Chemical Family** Methoxyacrylate

**Intended Use** Fungicide

**IUPAC Name** Methyl(E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate

**Chemical Formula** C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub>

## 2. CHEMICAL COMPOSITION

Chemical Name	CAS No.	EC No.	Content (g/l)
Azoxystrobin	131860-33-8	-	250
Inert ingredients	-	-	Q.S. to make 1000 ml

## 3. HAZARDOUS IDENTIFICATION

**Hazard Identification** If swallowed, it may cause nausea, vomiting and abdomen pain.  
If inhaled as a fine dust it may cause irritation to the bronchial and lung tissues.

## 4. FIRST AID MEASURES

**If Ingested** If swallowed, induce vomiting by tickling at the back of the back of the throat with the finger. Immediately seek medical advice.

**Eye contact** Immediately flush the contaminated eye with lukewarm water, gently flowing for 20 minutes or until the product is removed. Take care not to rinse contaminated water into the unaffected eye or onto the face. Special care should be taken when the exposed person is wearing contact lenses.

<b>Skin Contact</b>	Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical advice.
<b>Inhalation</b>	Move affected person to fresh air. If breathing is difficult give artificial respiration. Get medical attention.
<b>Note to Physician</b>	No specific antidote. Treat symptomatically and give supportive therapy.

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## 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Not flammable
<b>Extinguishing Media</b>	Carbon dioxide, foam, dry powders and Water spray
<b>Special Fire Fighting Procedures</b>	Firefighters should wear NIOSH/ MSHA approved self-contained breathing apparatus and full protective clothing. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. Use dry chemical, foam or CO <sub>2</sub> extinguishing media. All nonessential personnel should be evacuated from the affected area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. If water is used to fight fire, dike and collect run-off.
<b>Decomposition Products</b>	Carbon and nitrogen oxides, hydrochloric gas are expected to be produced.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear appropriate safety clothing and eye/face protection.
<b>Environmental precautions</b>	Do not wash into sewers or into any water body.
<b>Methods for cleaning up the spills</b>	Wear protective equipment. Clear area of all un protective personnel. Prevent entry of chemical or used/ damaged containers into drains, streams or waterways. For small spill apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal. For large spills, place leaking container into salvage drums. Apply absorbent material such as earth, sand, clay granules to the spill. Form a barricade around spill and in front of drains or waterways in spill vicinity, using earth or other available material. Sweep up material contain in a refuse vessel for disposal.

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## 7. HANDLING AND STORAGE

<b>Handling</b>	Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid breathing vapours. Avoid eye contact. Do not eat drink or smoke while using this product.
<b>Storage</b>	Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, and animal feeding stuffs, pharmaceuticals, cosmetics or fertilizers. Keep out of reach of children.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	Ensure work areas have ventilation, containment and procedure to maintain airborne levels below the TLV. Warehouses, production area and waste holding facilities should have containment to prevent environmental contamination.
<b>Ingestion</b>	Do not eat, drink or apply cosmetics, where there is a potential for exposure to the product.
<b>Eyes protection</b>	Safety goggles, chemical splash goggles or face shield for eye protection should be used. Safety showers and eyewash should be easily accessible.
<b>Skin protection</b>	Chemical resistant gloves, coveralls, socks, apron and chemical resistant foot coverings should always be used while handling the product.
<b>Respiratory protection</b>	Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.
<b>General Protection</b>	Avoid contact with eyes and skin. While handling the product, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield. After use and before eating drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid
<b>Colour</b>	white to off-white free flowing suspension
<b>Odour</b>	No particular Odour
<b>pH</b>	4.5 – 7.5

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## 10. STABILITY AND REACTIVITY

<b>Shelf life</b>	Stable for 2 years under normal conditions of storage and use.
<b>Flammability</b>	Not flammable
<b>Explosivity</b>	Not explosive
<b>Corrosivity</b>	Not corrosive
<b>Incompatibility</b>	Compatible with commonly used agrochemicals and adjuvants

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral toxicity</b>	LD <sub>50</sub> >5000 mg/kg ( <b>Rats</b> )
<b>Acute Dermal Toxicity</b>	LD <sub>50</sub> >2000 mg/kg ( <b>Rats</b> )
<b>Acute Inhalation</b>	LC <sub>50</sub> >5.10 mg/l
<b>Eye Irritation</b>	Non irritating
<b>Skin Irritation</b>	Non irritating
<b>Dermal Sensitisation</b>	Not a skin sensitizer ( <b>Guinea pigs</b> )

## 12. ECOLOGICAL INFORMATION

<b>Bobwhite quail</b>	LC <sub>50</sub> >2000 mg/kg
<b>Fish</b>	LC <sub>50</sub> 0.30 mg/l (Fresh Water Fish)
<b><i>Daphnia magna</i></b>	LC <sub>50</sub> (48 h) 1.52 mg/l
<b>Bees</b>	LD <sub>50</sub> >100 µg/bee

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal</b>	Contaminated material must be disposed off in accordance with all State and/or Local regulations. Check governmental regulations and local authorities for approved disposal of this material. Dispose off this material and its container at hazardous or special waste collection point. Container and washings must be disposed off safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimers or to permitted incinerators. Do not re-use container for any purpose.
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## 14. TRANSPORT INFORMATION

### ADR/RID Classification

<b>Proper shipping Name</b>	Enviromental hazardous substance liquid Toxic N.O.S (Contains azoxystrobin)
<b>UN No.</b>	3082
<b>Packing Group</b>	III
<b>Hazard Class</b>	9

### IMDG Classification

<b>Proper shipping Name</b>	Enviromental hazardous substance liquid Toxic N.O.S (Contains azoxystrobin)
<b>UN No.</b>	3082
<b>Packing Group</b>	III
<b>Hazard Class</b>	9

### IATA/ICAO Classification

<b>Proper shipping Name</b>	Enviromental hazardous substance liquid Toxic N.O.S (Contains azoxystrobin)
<b>UN No.</b>	3082
<b>Packing Group</b>	III
<b>Hazard Class</b>	9

## 15. REGULATORY INFORMATION

Xn



Harmful

N



Dangerous for environment

**Hazard symbol**

Xn, N

**Risk Phrase**

**R23:** Toxic by inhalation

**R50:** Very toxic to aquatic organisms

**R53:** May cause long term adverse effects in the aquatic environment

**S Phrases**

**S60** This material and its container must be disposed of as hazardous waste

**S61** Avoid release to the environment. refer to special instructions/safety data sheets

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## 16. OTHER INFORMATION

*The information provided in this safety data sheet is believed to be accurate and reliable. The information is offered only as a guide to the handling of this specific material, but uses of this product may vary and situation unforeseen by Parijat may exist. No warranty of any kind is given/ implied and Parijat will not be reliable for any damages, loses, injuries or consequential damages, which may result from the use of or reliance on any information contained herein.*

*Read the entire MSDS for complete hazard evaluation of this product.*

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