

# Azoxystrobin -MATERIAL SAFETY DATA SHEET

## Manufacturer/information service:

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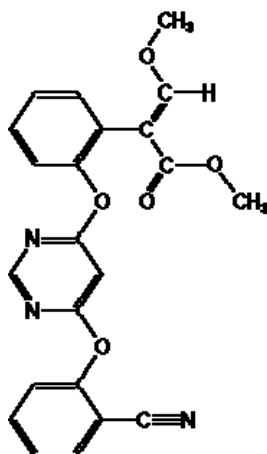
## 1. Chemical Product Identification

Product Name: Azoxystrobin

Molecular Formula: C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub>

Molecular Weight: 403.4

Structural Formula:



Chemical Name: methyl (αE)-2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-α-(methoxymethylene)benzeneacetate

Form: Crystalline solid

Color: White

Odor: Not applicable

CAS No.: 131860-33-8

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content
Azoxystrobin	131860-33-8	95%

Other ingredients		5%
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### 3. Hazards Identification

Inhalation: Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Hazards: Emits toxic fumes under fire conditions.

### 4. First Aid Measures

**Skin:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**Eyes:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### 5. Fire-Fighting Measures

Flash Point: 305°C

**Fire Fighting:** Extinguish using Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Fire Potential:** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

### 6. Accidental Release Measures

Small spills/leaks: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### 7. Handling and Storage

**Safe handling advice:** avoid contact with skin and eyes. Do not breathe dust. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

**Requirements for storage rooms:** keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well ventilated place.

Additional information: read the label before use.

## 8. Exposure Controls/Personal Protection

**Personal Protection:** Compatible chemical-resistant gloves. Chemical safety goggles.

**Respirators:** Government approved respirator.

**Exposure Effects:** Properties of this material have not yet been prepared. Any recommendations are of a general nature. Many chemicals cause irritation of the eyes, skin, and respiratory tract. In severe cases respiratory tract irritation can progress to ARDS/acute lung injury which may be delayed in onset for up to 24 to 72 hours in some cases. Irritation or burns of the esophagus or gastrointestinal tract are also possible if caustic or irritant chemicals are ingested. ALWAYS contact your local poison control authority or medical professional for assistance.

## 9. Physical and Chemical Properties

Appearance: white crystalline

Melting Point: 118-119°C

Boiling Point: 581°C

Vapor Pressure:  $1.1 \times 10^{-10}$  Pa at 25°C

Heat Of Vaporization: 86.9 kJ/mol

Octanol-water partition coefficient:  $\log P_{OW} = 2.5$  at pH 7 and 20°C

Solubility: In water 6.7 mg/l, in Hexane 57 mg/l, in Methanol 20 g/l, in Toluene 55 g/l, in Acetone 86 mg/l (at 20°C).

## 10. Stability and Reactivity

**Stability:** Stable at normal temperatures and pressures.

**Incompatibilities:** Strong oxidizing agents.

**Decomposition:** Carbon monoxide, Carbon dioxide, Nitrogen oxides.

**Combustion Products:** Fire may produce irritating, corrosive and/or toxic gases.

## 11. Toxicological Information

Acute toxicity: LD<sub>50</sub> Oral rat: >5000 mg/kg

LD<sub>50</sub> dermal rat :>2000mg/kg

LC<sub>50</sub> Inhalation rat: >4.67mg/l

Chronic toxicity: Azoxystrobin is non-oncogenic in the rat. Based on a study which administered azoxystrobin in the diets of rats the following values were recorded: male rat 3.6 mg/kg/day, female rat 3.6 mg/kg/day at 60 ppm diet; male rat 18.2 mg/kg/day, female rat 22.3 mg/kg/day at 300 ppm diet; male rat 82.4 mg/kg/day, female rat 117.6 mg/kg/day at 1500/750 ppm diet, respectively.

## 12. Ecological and Ecotoxicological Information

**Effects on Birds:** Azoxystrobin exhibited low ecological risks to birds, mammals and fish.

**Effects on Aquatic Organisms:** Azoxystrobin exhibited low ecological risks to birds, mammals and fish.

**Effects on Other Animals (Nontarget species):** Azoxystrobin exhibited low ecological risks to birds, mammals and fish.

## 13. Disposal Considerations

Discarded product is not a hazardous waste. Plastic Containers: Triple rinse(or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by the local authorities. Paper/Box Container: do not reuse container. Completely empty container into application equipment. Then dispose of empty container in sanitary landfill, or alternatives allowed the local authorities.

## 14. Transport Information

Not applicable.

## 15. Regulatory Information

Not applicable.

## 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 presented 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 produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.