

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Trade name: Saxony™ 100 FS Seed Treatment Fungicide
Product code: EPA Reg. No 55146-147
Product form: Mixture
Product type: Fungicide

Supplier: Nufarm Americas Inc.
11901 S. Austin Avenue
Alsip, IL 60803
1-800-345-3330

Emergency numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

CLASSIFICATIONS: Skin Sensitizer, Category 1B
SIGNAL WORD (OSHA): WARNING
HAZARD STATEMENTS: Not applicable.
May cause an allergic skin reaction.
HAZARD SYMBOL(S):



PRECAUTIONARY STATEMENTS: Not Applicable
Avoid breathing mist, vapors, spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection.
If on skin: Wash with plenty of soap and water.
See Section 4 First Aid Measures.
If skin irritation or rash occurs: Get medical advice.
Wash Contaminated clothing before reuse.
Dispose of contents and container in accordance with local regulations.

OTHER HAZARDS STATEMENT(S): None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	% BY WEIGHT
Azoxystrobin	131860-33-8	9.67
Propylene Glycol	57-55-6	Trade secret
Other Ingredients	Trade Secret	90.33

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Eye irritation
Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam, or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleanup:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into combustible disposal container. Scrub area with hard water detergent (e.g. commercial products such as

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Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other
Azoxystrobin	NE	NE	4 mg/m ³ TWA
Propylene Glycol	NE	NE	10 mg/m ³ TWA
Other ingredients	NA	NA	NA

NE = Not Established
NA = Not Applicable

Appropriate Engineering Controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protective measures:

Ingestion:

Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely, use chemical splash goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow to beige liquid
Odor:	None
Odor threshold:	Not Available
pH:	6.5
Melting point/freezing point:	Not Applicable
Initial boiling point and boiling range	Not available
Flash point:	>200°F
Flammability (solid, gas):	>175°F, flashpoint not determinable
Upper/lower flammability or explosive limits:	Not Applicable
Vapor pressure:	Azoxystrobin 8.25 x 10 ⁽⁻¹³⁾ mmHg @ 68°F (20°C)
Vapor density:	Not Available
Relative density:	8.98 lb/gal @ 68°F (20°C)
Solubility(ies):	6 mg/l in water @ 68°F (20°C)
Partition coefficient: n-octanol/water:	Not Available
Autoignition temperature:	1094 +/- 41°F
Decomposition temperature:	Not Available
Viscosity:	75-3400 mPas @20°C 65-2200 mPas @40°C

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical Stability: Stable under normal handling and storage conditions.
Possibility of Hazardous reactions: Hazardous polymerization will not occur.
Conditions to Avoid: None known.
Incompatible Materials: Not known.
Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATIONHealth effects information

Likely routes of exposure: Dermal, inhalation

Symptoms of exposure: Eye irritation

Delayed, immediate and chronic effects of exposure: Not allergic, allergic skin reaction

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Oral: Rat LD₅₀: >2,000 mg/kg

Dermal: Rat LD₅₀: >2,000 mg/kg

Inhalation: Rat 4-hr LC₅₀: >5.98 mg/l

Eye Irritation: Rabbit: Slightly to moderately irritating

Skin Irritation: Rabbit: Slightly irritating

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

Reproductive/Developmental Effects

Azoxystrobin: Did not show reproductive toxicity effects in animal experiments.

Chronic/Subchronic Toxicity Studies

Azoxystrobin: No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity

Azoxystrobin: Did not show carcinogenic effects in animal experiments.

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<u>Chemical Name/Common Name</u>	<u>NTP/IARC/OSHA Carcinogen</u>
1, 2-Propanediol/Propylene Glycol	No
Methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate/Azoxystrobin	No
Other Ingredients	No

Other Toxicity Information

None

Toxicity of Other Components

Other ingredients
Not Applicable

Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Target Organs

Active Ingredients

Azoxystrobin: Liver

Inert Ingredients

Other ingredients: Not Applicable
Propylene Glycol: CNS, kidney, liver

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Azoxystrobin Technical:

96-hour LC ₅₀ Rainbow Trout:	470 ppb
14-day LD ₅₀ Mallard Duck	>250 mg/kg
120-hour EC ₅₀ Green Algae	106 ppb
48-hour Water flea EC ₅₀ :	259 ppb

Environmental Fate:

Azoxystrobin:

The information presented here is for the active ingredient, azoxystrobin.
Low bioaccumulation potential. Not persistent in soil. Stable in water. Moderate mobility in soil.
Sinks in water (after 24h).

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT

Ground Transport – NAFTA
Not regulated

Comments

Water Transport – International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin), Marine Pollutant
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport

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

15. REGULATORY INFORMATION**Pesticide Registration:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Caution: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

EPA Registration Number:
55146-147

EPCRA SARA Hazard Title III Classification:

Section 311/312 Hazard Classes:	Acute Health Hazard
Section 313 Toxic Chemicals:	None

California Proposition 65:

This product does not contain chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

CERCLA/SARA Reportable Quantity (RQ):

None

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATIONNFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

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