

SAFETY DATA SHEET

Revision Number: 3.3

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Section 1 – Identification

Product Identifier: AZteroid FC Fungicide
Recommended use: Refer to product label for use information

Manufacturer/Supplier: Vive Crop Protection Inc., 6275 Northam Dr., Suite 1, Mississauga, ON L4V 1Y8, Canada

Web: <http://www.vivecrop.com>

Technical Assistance: support@vivecrop.com

Sales enquiries: sales@vivecrop.com

Phone: +1-416-260-8889; 1-888-760-0187

24-Hour Emergency Phone:

ChemTel Inc.

North America: 1-800-255-3924

Outside North America: +1-813-248-0585

Section 2 – Hazard Identification

Classification:

The following hazard classification is in accordance with **29 CFR 1910.1200 [OSHA HCS 2012]** in the United States of America, and **WHMIS 2015** in Canada.

Acute Toxicity – 4 (Inhalation)

Eye Irritation – 2B

Acute Hazards to the Aquatic Environment – 1

Label Elements, Including Precautionary Statements:



Signal Word: **Warning**

EPA Pesticide Signal Word: **Caution**

Hazard Statements: H320 – Causes eye irritation; H332 – Harmful if inhaled; H400 – Very toxic to aquatic life

Precautionary Statements: P261 – Avoid breathing mist or spray; P264 – Wash thoroughly after handling; P271 – Use only

outdoors or in a well-ventilated area; P273 – Avoid release to the environment

Other Hazards which do not Result in Classification:
None

Section 3 – Composition/Information on Ingredients

Component A: Azoxystrobin
CAS 131860-33-8, 18.4 % (w/w)

Component B: The specific chemical identity and percentage composition of this component is being withheld as a trade secret under 29 CFR 1910.1200(i).

Component C: The specific chemical identity and percentage composition of this component is being withheld as a trade secret under 29 CFR 1910.1200(i).

Contains other ingredients not otherwise classified as hazardous or present in concentrations which warrant inclusion in this SDS.

Section 4 – First-Aid Measures

Ingestion: P312 – Call a POISON CENTER or doctor if you feel unwell

Skin Contact: P332 + P313 – If skin irritation occurs: Get medical attention

Inhalation: P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing; P312 – Call a POISON Center or doctor if you feel unwell

Eye Contact: P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P337 + P313 – If eye irritation persists: Get medical attention

Symptoms/Effects, Acute and Delayed:
May cause respiratory tract pain and irritation, eye pain, skin redness, headache, and dizziness.

Section 5 – Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards: May produce toxic and irritant vapors.

Special protective equipment: Wear self-contained breathing apparatus for firefighting.

Section 6 – Accidental Release Measures

Personal Precautions: Wear respiratory protection. Wear protective gloves/protective clothing. Do not breathe mist/spray. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environment Precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up: Absorb using inert materials and dispose of in accordance with local regulations.

Section 7 – Handling and Storage

GHS Precautions for Safe Handling: P264 – Wash thoroughly after handling; P273 – Avoid release to the environment.

Conditions for Safe Storage: Avoid extreme temperatures; Store in cool, dry places and avoid excess heat.

Section 8 - Exposure Controls/Personal Protection

Exposure limits have not been set for the formulated product. The following limits and controls are based on available data for azoxystrobin.

Control Parameters:

OSHA PEL: Not established

ACGIH TLV: Not established

AOEL: 0.2 mg/kg/day

NTP/IARC/OSHA Carcinogen: No

Engineering Controls:

This product is intended to be used outdoors. If necessary, provide local exhaust ventilation and use appropriate containment procedures

to maintain airborne levels at a safe concentration.

Personal Protective Equipment:

Skin Protection – Long-sleeved shirt and long pants. Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber. Shoes plus socks.

Hygiene Measures – Avoid contact with skin, eyes and clothing. Do not breathe mist or spray. Wash hands after handling the product. Do not eat, drink, or smoke when using this product.

Section 9 – Physical and Chemical Properties

Appearance: Pale beige

Odor: Moderate unsaturated

Odor threshold: Not available

pH: 6 - 8

Melting point: Not available

Freezing point: Not available

Boiling point/Boiling Range: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability (solid, gas): Not available

Lower explosive limit: Not available

Upper explosive limit: Not available

Vapor pressure: Not available

Vapor density: Not available

Relative Density: 1.06 – 1.12 g/cc

Solubility: Not available

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: non-Newtonian

Section 10 –Stability and Reactivity

Reactivity: None known

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: When heated to decomposition, will emit toxic vapors or irritating vapors.

Conditions to Avoid: High temperatures

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: No data available. In the event of a fire, see section 5

Section 11 – Toxicological information

Acute toxicity:

Oral LD50 rat: > 2000 mg/kg

Dermal LD50 rabbit: > 2000 mg/kg

Inhalation LC50 (4 hour) rat: > 2.12 mg/L

Skin Corrosion/Irritation:

Rabbit: No irritation observed

Serious Eye Damage/Irritation:

Rabbit: Slight conjunctival redness, chemosis, discharge, and corneal opacity noted. All symptoms cleared by 48 hours.

Dermal Sensitization:

Guinea pig: Not a sensitizer.

Carcinogenicity: Not classified as carcinogenic by IARC or ACGIH.

Germ Cell Mutagenicity, Reproductive Toxicity, STOT-Single Exposure, STOT-Repeated

Exposure, Aspiration Hazard:

No data available

Acute Exposure Symptoms (Azoxystrobin):

May cause respiratory tract pain and irritation, eye pain, skin redness, headache, and dizziness.

Chronic Exposure Symptoms: No data available

Interactions: None known

Section 12 – Ecological Information

While no additional ecotoxicity effects have been determined for this mixture. It is recommended that this material be treated as hazardous material and precautions be taken to ensure this material is not released into the

environment. The following information is based on the testing azoxystrobin alone.

Toxicity:

Birds – Acute LD50: > 2000 mg/kg

Birds – Dietary LD50: > 1179 mg/kg feed

Fish – Acute 96 hour LC50: 0.47 mg/L

Fish – Chronic 30 Day NOEC: 0.147 mg/L

Aquatic invertebrate – Acute EC50: 0.23 mg/L

Aquatic crustaceans – Acute LC50: 0.055 mg/L

Algae – Acute 72 hour EC50: 0.36 mg/L

Honeybees – Acute 48 hour LD50: > 25 µg/bee

Earthworms – Acute 14 day LC50: 283 mg/kg

Persistence and degradability

Soil degradation (aerobic) DT50 field: 180

Aqueous photolysis, pH 7, DT50: 8.7

Aqueous hydrolysis, pH 7, DT50: Stable

Bioaccumulative potential

BCF: Not available

Section 13 – Disposal

P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

Dangerous to the environment. Avoid all releases to sewer.

Section 14 – Transportation Information

DOT (US) Ground – Non-Bulk (<= 119 Gallons)

Not regulated

DOT (US) – Marine or Bulk (> 119 Gallons)

UN-Number: 3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Azoxystrobin mixture)

Other: Marine Pollutant (49 CFR 171.4)

- Not a dangerous good if single or combination packaging contains a net quantity per single or inner packaging of 5 L or less.

Air Transport (IATA)

UN-Number: 3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

(Azoxystrobin mixture)

Other: Marine Pollutant

Exemptions (Special Provisions)

- “Not Restricted” as per IATA special provision A197 provided that the net quantity in any receptacle does not exceed 5 kg or 5 L and the packaging used meets defined standards.

Section 15 – Regulatory Information

FIFRA:

This mixture is a pesticide product as per the United States 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 (SDS) and material safety data sheets (MSDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any water proof material such as polyvinyl chloride.

Section 16 – Other Information

Legal Notice

Vive Crop Protection, Inc. requests all users of this product to study this material safety data sheet (SDS) and become aware of all product

hazards and safety information. The data in this SDS relate only to the specific product designated herein and do not relate to use of such product in combination with any other material or in any process. To promote the safe use of this product, all users should notify their employees, agents and contractors of the information in this SDS and any other product hazards and safety information.

Legal Disclaimer

The information contained in this SDS is believed to be accurate as at the date of its preparation but Vive Crop makes no representation or warranty whatsoever, express or implied, with respect to the accuracy or completeness of the information contained herein. Since the use of this information and the conditions of use of the product are not within the control of Vive Crop, it is ultimately the user's obligation to determine the suitability of any material and the conditions of safe use of this product by all relevant parties. Vive Crop does not assume any liability whatsoever for the accuracy or completeness of the information contained herein or for incorrect handling or use of the product or the inherent hazards involved in the nature of the product itself. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, Vive Crop cannot guarantee that these are the only hazards that exist.

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