



Revision Date: April 30th, 2021



Section 1 – Identification

Product Identifier: AZterknot

Recommended use: **Refer to product label for use instructions.**

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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 inhalation toxicity 4; Eye irritation 2

Label Elements, Including Precautionary Statements:



Signal Word: Warning

Hazard Statements: H320 Causes eye irritation; H332 Harmful if inhaled

Precautionary Statements: P261 Avoid breathing mist/spray; P264 Wash thoroughly after handling; P271 Use only outdoors or in a well-ventilated area

Section 3 – Composition/Information on Ingredients

Component	CAS	Wt %
azoxystrobin	131860-33-8	18.4
<i>Reynoutria</i> spp. extract	none	10.2

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

Section 4 – First-Aid Measures

Ingestion	P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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
Skin Contact	P302 + P312 IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.

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 fire fighting

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. Do not let the material dry before cleaning the spill.

Section 7 – Handling and Storage

GHS Precautions for Safe Handling: P261 Avoid breathing mist/spray; P264 Wash thoroughly after handling; P271 Use only outdoors or in a well-ventilated area

Conditions for Safe Storage: P403 +P233 – Store in a well-ventilated place. Keep container tightly closed; P405 - Store locked up; Avoid extreme temperatures

Section 8 - Exposure Controls/Personal Protection:

Component	OSHA PEL	ACGIH TLV	AOEL
azoxystrobin	-	-	0.2 mg/kg/day
<i>Reynoutria</i> spp. extract	-	-	-

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: Applicators and other handlers must wear: 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.

Section 9 – Physical and Chemical Properties

Appearance	Dark brown
Odor	None
Odor threshold	Not available
pH	6.5 @ 22.2°C
Melting point	Not available
Freezing point	Not available
Initial 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	1.13 @ 22.3°C
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	Strong oxidizers
Chemical Stability	Stable under normal conditions
Hazardous Reactions	No data available
Conditions to Avoid	High temperatures, high pH
Incompatible Materials	Strong oxidizers
Hazardous Decomposition Products	No data available

Section 11 – Toxicological information:

Acute Oral LD50	5000 mg/kg
Acute Dermal LD50	5000 mg/kg
Acute Inhalation LD50	> 2.0 mg/L
Eye Irritation / Corrosion	Rabbit: Corneal opacity and positive conjunctivitis



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	clearing by 72 hours. (similar formulation)
Skin Irritation / Corrosion	Rabbit: Slight erythema and/or slight edema (severity 1.0 - 2.0) clearing by 72 hours. (similar formulation)
Dermal Sensitization	Guinea pig: Not a sensitizer (similar formulation)
Germ Cell Mutagenicity	no data available
Carcinogenicity	Not classified as carcinogenic by IARC or ACGIH
Reproductive Toxicity	no data available
STOT-Single Exposure	no data available
STOT-Repeated Exposure	no data available
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	no data available

Section 12 – Ecological Information (azoxystrobin):

Bird LD50	> 2000 mg/kg
Bird Dietary LD50	> 1179 mg/kg feed
Fish Acute 96-h LC50	0.47 mg/L
Fish Chronic 30-d NOAEC	0.147 mg/L
Aquatic Invertebrate Acute EC50	0.23 mg/L
Aquatic Crustacean Acute LC50	0.055 mg/L
Algae Acute 72-h EC50	0.36 mg/L
Honeybee Acute 48-h LD50	> 25 µg/bee
Earthworm Acute 14-d LC50	283 mg/kg
Soil Degradation DT50	180 d
Aqueous Photolysis DT50	pH 7 8.7 d
Aqueous Hydrolysis DT50	pH7 Stable
Bioaccumulation Potential	no data available

Section 13 – Disposal: P501 – Dispose of contents/container in accordance with local/regional/national/international regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a

violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA regional Office for guidance. 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)

Exemptions: 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 (49 CFR 171.4)

Exemptions: “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 (SDS), 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.

Caution. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid

contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing vapor or spray mist.

EPA Registration Number: Pending

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.

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