



SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Zurita XL
DESCRIPTION: A liquid fungicide
EPA Reg. No.: 93930-19
COMPANY IDENTIFICATION: Avalaire, LLC
1705 Towanda Ave
Bloomington, IL 61701

2. HAZARD IDENTIFICATION



WARNING

Harmful if swallowed (H302)
Harmful if inhaled (H332)
Causes eye irritation (H320)
Very toxic to aquatic life (H400)

HAZARD CLASSIFICATION

Health Hazards

Acute toxicity, oral
Acute toxicity, inhalation
Eye damage / irritation

Category

4
4
2B

Physical Hazards

None

Category

-

Environmental Hazards

Hazardous to the Aquatic Environment – Acute (short-term)

Category

1

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Wash hands and exposed thoroughly after handling. Do not eat drink or smoke when using this product. (P264+P270)

Avoid breathing mist / vapors / spray. Use only outdoors in a well-ventilated area. (P261+P271)

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. (P301+P312+P330)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor if you feel unwell. (P304+P340+P312)

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

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Azoxystrobin	methyl (E)-2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]- α -(methoxymethylene)benzeneacetate	131860-33-8	13.5%
Propiconazole	1-[[2-(1,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl-1H-1,2,3-triazole	60207-90-1	11.7%

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



4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For a medical emergency involving this product call: 1-800-222-1222.

IF SWALLOWED: Immediately call a poison control center or doctor. Rinse mouth out and have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a doctor or poison control center if you feel unwell.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If eye irritation persists: Get medical attention/advice.

5. FIREFIGHTING MEASURES

Flash Point (SCC): >100°C (>212°F)

Flammable Limits: Not determined

Fire and Explosion Hazards: Thermal decomposition can release irritating and toxic fumes and gases.

Extinguishing Medium: Water fog, foam, dry chemical or carbon dioxide (CO₂).

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / fire-fighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

NFPA Ratings: Health - 1 / Flammability - 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin. Avoid breathing vapors.

Storage: Do not contaminate water, food, or feed by storage and disposal. Store in original container only. Store in a cool, dry and well-ventilated place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical-resistant gloves made of any water-proof material such as polyvinyl chloride, nitrile rubber or butyl rubber; shoes plus socks; and protective eyewear (goggles, face shield, or safety glasses).

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white to off white opaque viscous liquid
Odor:	faint, slight musty odor
Melting/Freezing Point:	no data available
Boiling Point/Boiling Range:	no data available
Flammability:	not flammable
Flammability Limits (upper/lower):	not applicable
Flash Point:	>100°C (>212°F)
Auto-ignition Temperature:	no data available
Decomposition Temp.:	no data available
pH:	5.9-6.9
Kinematic Viscosity:	no data available
Water Solubility:	emulsifies
Partition Coefficient:	no data available
Vapor Pressure:	no data available
Density:	1.04-1.08 g/cm ³
Relative Vapor Density:	no data available
Particle Characteristics:	no data available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 46°C (115°F) and high moisture.

CHEMICAL STABILITY: Stable under all normal use and storage conditions. May decompose if heated.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: This product is chemically stable and no hazardous reactions should occur if stored and handled as prescribed / indicated. In case of fire, oxides of carbon and nitrogen can be released.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 1,659 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 0.52 mg/L and < 2.11 mg/L

EYE IRRITATION: Moderately irritating

SKIN IRRITATION: Slightly irritating

SKIN SENSITIZATION: Guinea pig – Not a contact sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

IARC: Not Listed

NTP: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: No evidence in animal studies.

12. ECOLOGICAL INFORMATION

Azoxystrobin can persist for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish; and azoxystrobin is toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas.

The following information is for the active ingredient, Azoxystrobin:

AQUATIC TOXICITY

Rainbow Trout: (96-hr LC₅₀): 0.47 mg/L

Bluegill: (96-hr LC₅₀): 1.1 mg/L

Daphnia: (48-hr EC₅₀): 80 µg/L

Algae: (120-hr EC₅₀): 0.12 mg/L

AVIAN TOXICITY

Bobwhite Quail: (LD₅₀): >2,000 mg/kg

Mallard Duck: (LD₅₀): >2,000 mg/kg

OTHER TOXICITY

Honey Bee (Oral LD₅₀): >25 µg/bee (oral), >200 µg/bee (contact)

The following information is for the active ingredient, Propiconazole:

AQUATIC TOXICITY

Rainbow Trout: (96-hr LC₅₀): 4.3-5.3 mg/L

Bluegill: (96-hr LC₅₀): 6.4 mg/L

Daphnia: (48-hr EC₅₀): 10.2 mg/L

Algae: (EC₅₀): 0.020 mg/L

AVIAN TOXICITY

Bobwhite Quail: (LD₅₀): 2,825 mg/kg

Mallard Duck: (LD₅₀): >2,510 mg/kg

OTHER TOXICITY

Honey Bee (Oral LD₅₀): Not toxic to bees

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:	Not regulated ^{1,2}
IMDG:	
Containers ≤ 1.3 gal. (5L) in strong outer packaging:	Not regulated
Containers > 1.3 gal. (5L) or containers not in strong outer packaging:	
Shipped internationally by vessel:	UN3082, Environmentally hazardous substance, liquid, N.O.S., (contains azoxystrobin/propiconazole), 9, PG III, Marine Pollutant
IATA:	
Shipped by air:	UN3082, Environmentally hazardous substance, liquid, N.O.S., (contains azoxystrobin/propiconazole), 9, PG III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

¹ 49 CFR §173.153(b)(2)

² 49 CFR §172.101 Appendix B(4)

15. REGULATORY INFORMATION

FIFRA –

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING/AVISO: Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing. Avoid breathing vapors.

ENVIRONMENTAL HAZARDS

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use.

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish; and azoxystrobin is toxic to aquatic invertebrates.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

Propiconazole (11.7%) (CAS No. 60207-90-1)

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.



16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED 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. To the extent consistent with applicable law, neither Avalaire, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF AVALAIRE, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF AVALAIRE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.2

Effective Date: 08/27/2020

