



ESQUIRE™

FUNGICIDE

XT

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Esquire XT Fungicide
DESCRIPTION: Liquid fungicide
EPA REG. NO.: 91234-206
COMPANY IDENTIFICATION: Atticus, LLC
 5000 CentreGreen Way, Suite 100
 Cary, NC 27513

2. HAZARD IDENTIFICATION

DANGER

May be fatal if swallowed through airways (H304)
 Causes serious eye damage (H318)
 May cause an allergic skin reaction (H317)
 Causes skin irritation (H315)
 Suspected of damaging fertility or the unborn child (H361)
 Combustible liquid (H227)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category	Environmental Hazards	Category
Aspiration Hazard	1	Flammable Liquid	4		
Eye Irritation	1				
Sensitization, skin	1B				
Skin Irritation	2	Hazardous to the aquatic environment, short-term	1		
Reproductive Toxicity	2	Hazardous to the aquatic environment, long-term	1		

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming into contact with oxidizing agents, hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Do not handle until all safety precautions have been read and understood. (P202)
 Keep away from heat, hot surface, sparks, open flame, and other ignition sources. No smoking. (P210)
 Avoid breathing mist, vapors or sprays. (P261)
 Wash hands and exposed skin thoroughly after handling. (P264)
 Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. (P272+P362+P364)
 Wear eye protection and protective gloves / protective clothing. Refer to Section 8 for specific PPE requirements. (P280)

IF exposed or concerned: Get medical advice / attention. (P308+P313)

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. (P301+P310+P331)

Store locked up. (P405)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. (P305+P351+338+P310)

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Refer to Section 4 for additional medical information. (P303+P361+P353+P302+P352+P333+P313)

Specific treatment. (See Section 4 for additional medical information). (P321)

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

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Difenoconazole	1H-1,2,4-Triazole, 1-[[[2-(2-chloro-4-(4-chlorophenoxy)phenyl)-4-methyl-1,3-dioxolan-2-yl]methyl]-	119446-68-3	22.8%
Propiconazole	1H-1,2,4-Triazole, 1-[[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-	60207-90-1	22.8%
Heavy aromatic solvent naphtha (petroleum)	Solvent naphtha (petroleum), heavy arom.	64742-94-5	<41.0%
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8	<3.0%
Ethoxylated castor oil	Castor oil, ethoxylated	617991-12-6	<10.0%
Alcohols, coco, ethoxylated	Alcohols, coco, ethoxylated	61791-13-7	<4.0%

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 emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

4. FIRST AID MEASURES *(continued)*

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. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a 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.

NOTE TO PHYSICIAN: Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Probably mucosal damage may contraindicate the use of gastric lavage.

5. FIREFIGHTING MEASURES

Flash Point: 166°F (75°C)

Fire and Explosion Hazards: None known.

Extinguishing Medium: Dry Chemical, foam, or CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff.

Fire Fighting Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting 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.

Hazardous Combustion Products: During a fire, irritating and possible toxic gases may be generated by thermal decomposition or combustion.

NFPA Ratings: Health – 2 / Flammability – 2 / 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: 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 spill immediately, observing precautions in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as 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 disposal.

7. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin or on 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.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Protective Clothing: Mixers, loaders, applicators and all other handlers must wear protective eyewear (goggles, face shield, or safety glasses), chemical resistant headgear for overhead exposure, chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils or Viton® ≥ 14 mils, coveralls over short-sleeved shirt and short pants, chemical-resistant apron when cleaning equipment, mixing, or loading, chemical-resistant footwear plus socks

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	transparent amber liquid
Odor:	mild sweet
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	not available
Flammability limits (upper/lower):	not available
Flash point:	166°F (75°C)
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	8-9 (1% dispersion)
Capillary viscosity:	55.6 cP @ 25°C 24.7 cP @ 40°C
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Hydrometer density:	1.125 g/cm ³ (9.39 lbs./gal @ 25 °C 1.100 g/cm ³ (9.18 lbs./gal @ 40°C)
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Do not mix or allow coming into contact with oxidizing agents, hazardous chemical reaction may occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

ORAL TOXICITY (rat LD₅₀): >2000 - <3000 mg/kg

DERMAL TOXICITY (rat LD₅₀): >4000 mg/kg

INHALATION TOXICITY (rat LC₅₀): >2.94 mg/L (4-hr)

EYE IRRITATION: Highly irritating (Rabbit)

SKIN IRRITATION: Highly irritating (Rabbit)

SKIN SENSITIZATION: Guinea pig – A positive skin sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

NTP: Not listed

IARC: Not listed

OSHA: Not Listed

Propiconazole: Increased hepatocellular adenomas, combined adenomas/carcinomas, and hepatocellular carcinomas observed in male mice in a chronic oral feeding study. However, animals in the high dose group for this study showed excessive toxicity; furthermore, the high dose exceeded the Maximum Tolerated Dose determined in the 90-day range finding study. No treatment-related tumors were seen in female mice in this mouse chronic feeding study. No tumors were noted in a chronic rat study.

REPRODUCTIVE TOXICITY:

Propiconazole: Some evidence of adverse effects on development, abased on animal experiments.

CHRONIC/SUBCHRONIC TOXICITY:

Difenoconazole: Kidney and liver effects at high doses (>5000 ppm; rats); Eye effects in dogs at high dose levels.

TOXICITY OF OTHER COMPONENTS

Emulsifier: May be irritating to mouth, upper digestive tract, skin and eyes.

Petroleum solvent: Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat and lungs. May cause central nervous system depression.

TARGET ORGANS:

Difenoconazole: Brain, liver, kidney, gastrointestinal tract

Propiconazole: Liver

Emulsifier: Eye, skin, upper digestive tract, mucous membranes

Petroleum Solvent: Skin, eye, respiratory tract, CNS

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish, shrimp, mammals, and aquatic invertebrates.

The following information is for the active ingredient, **Difenoconazole:**

AQUATIC TOXICITY

Fish (Rainbow Trout) (96-hour LC₅₀): 1.1 mg/l

Invertebrate (Water Flea) Daphnia Magna (48-hour EC₅₀): 0.77 mg/l

Green Algae (72-hour EC₅₀): 0.032 mg/l

The following information is for the active ingredient, **Propiconazole:**

Fish (Rainbow Trout) (96-hour LC₅₀): 0.83 ppm

Invertebrate (Water Flea) Daphnia Magna (48-hour EC₅₀): 3.2 ppm

Green Algae (9 day-EC₅₀): 0.72 ppm

AVIAN TOXICITY

Bird (Mallard Duck) (14-day LD₅₀): 2,510 mg/kg

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use 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.

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:

Non-bulk:

Not regulated

Containers > 119 gal. (450 L) shipped "ground only":

Shipping Description: NA1993, Combustible liquid, N.O.S. (petroleum naphtha), PG III

Hazardous Substance RQ: 100 lbs. (~2500 gallons of product)

Emergency Guide: 128

IMDG:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L):

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (Difenoconazole, Propiconazole), 9, PG III, Marine Pollutant

IATA:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L):

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (Difenoconazole, Propiconazole), 9, PG III, Marine Pollutant

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.

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

DANGER/PELIGRO. Corrosive. Causes irreversible eye damage. Causes skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed or absorbed through skin. Wear protective eyewear including goggles, face shield, or safety glasses. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, shrimp, mammals, and aquatic invertebrates. Drift and runoff may be hazardous to aquatic estuarine/marine organisms in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Surface water advisory: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product may contaminate water through drift or spray in wind. This product has a potential for runoff for several months or more after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential for contamination of water from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is expected to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming 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 (acute), Delayed (chronic), Fire

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 (CAS No. 60207-90-1): 22.8%

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other 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.

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SDS Version: 1.0

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