



ESQUIRE™

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Esquire
DESCRIPTION: Liquid fungicide
EPA REG. NO.: 91234-207
COMPANY IDENTIFICATION: Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

2. HAZARD IDENTIFICATION

DANGER

May be fatal if swallowed and enters airways (H304)
 May cause cancer (H350)
 May cause an allergic skin reaction (H317)
 Causes serious eye irritation (H319)
 Causes skin irritation (H315)
 May cause damage to organs through prolonged or repeated exposure (H373)
 May cause respiratory irritation (H335)
 May cause drowsiness or dizziness (H336)
 Very toxic to aquatic life (H400)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Aspiration Hazard	1	None	-
Carcinogenicity	1B		
Sensitization, skin	1B	Environmental Hazards	Category
Eye Irritation	2A	Hazardous to the aquatic environment,	
Skin Irritation	2	short-term	1
Specific target organ toxicity, repeated	2		
Specific target organ toxicity, single exposure	3		

HAZARDS NOT REQUIRING CLASSIFICATION

DO NOT use or store near heat or open flame. Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instructions before use. Do not breathe mist/spray. Wash hand and exposed skin thoroughly after handling. Do not touch eyes. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection as described in Section 8. (P203+P260+P264+P265+P272+P280)

Use only outdoors or in a well-ventilated area. (P271)

IF exposed or concerned, get medical advice. (P318)

Get medical help if you feel unwell. (P319)

IF SWALLOWED: Get emergency help medical help immediately. Do NOT induce vomiting. (P301+P316+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. If eye irritation persists: Get medical help. (P305+P351+338+P337+P317)

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Specific treatment. (See Section 4 for additional medical information). Take off contaminated clothing and wash it before reuse. (P303+P352+P333+P317+P321+P362+P364)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. (P304+P340+P319)

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	23.2%
Heavy aromatic solvent naphtha (petroleum)	Solvent naphtha (petroleum), heavy arom.	64742-94-5	Trade secret
1-methylnaphthalene	Naphthalene, 1-methyl-	90-12-0	< 10.0%
2-methylnaphthalene	Naphthalene, 2-methyl-	91-57-6	< 15.0%
Naphthalene	Naphthalene	91-20-3	< 10.0%

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.

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.

4. FIRST AID MEASURES (CONT.)

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.

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 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 treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillates - vomiting may cause aspiration pneumonia.

5. FIREFIGHTING MEASURES

Flash Point: 201°F (94°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 – 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: 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 or on clothing. 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.

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)].

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Naphthalene	10 ppm TWA	10 ppm TWA (skin)	10 ppm TWA	NIOSH
Petroleum Solvent	Not Established	Not Established	100 mg/m ³ (17 ppm)	Manufacturer
Difenoconazole	Not Established	Not Established	5 mg/m ³ TWA	Syngenta

Protective Clothing: Mixers, loaders, applicators and all other handlers must wear chemical-resistant gloves such as barrier laminate, or Viton® ≥ 14 mils, protective eyewear, long-sleeved shirt and long pants, socks and shoes.

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:	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:	201°F (94°C)
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	5-6 (1% dispersion)
Capillary viscosity:	23.3 cP @ 25°C 12.2 cP @ 42°C
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Bulk density:	8.5-9.5 lbs./gal
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): 3,129 mg/kg

DERMAL TOXICITY (rat LD₅₀): >2,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): >5.4 mg/L (4-hr)

EYE IRRITATION: Highly irritating (Rabbit)

SKIN IRRITATION: Irritating (Rabbit)

SKIN SENSITIZATION: Guinea pig – A positive skin sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

NTP: Anticipated carcinogen (naphthalene)

IARC: Possible human carcinogen (naphthalene)

OSHA: Not Listed

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

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.

Naphthalene: Can cause cataracts, liver damage, kidney failure, respiratory failure, hematuria, anemia, damage to red blood cells, leukocytosis, or coma.

TARGET ORGANS:

Difenoconazole: Brain, liver, kidney, gastrointestinal tract

Petroleum Solvent: Skin, eye, respiratory tract, CNS

Naphthalene: Eye, liver, kidney, respiratory tract, blood, 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

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:

Not regulated

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/Petroleum Naphtha), 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/Petroleum Naphtha), 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

WARNING/AVISO. Causes substantial but temporary eye injury. DO NOT get in eyes or on clothing. Harmful if swallowed. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, 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. DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

15. REGULATORY INFORMATION (CONT.)

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 ground water. 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 such as 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 use or store near heat or open flame. Do not mix or allow to come in 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)

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
Naphthalene (CAS No. 91-20-3) (<10.0%)

CERCLA Reportable Quantity (RQ) –
Naphthalene (CAS No. 91-20-3) (<10.0%): 100 lbs.

CALIFORNIA PROP 65 STATUS –

⚠ WARNING: This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

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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