

## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** Quistador  
**DESCRIPTION:** A liquid herbicide  
**EPA REG. NO.:** 91234-256  
**COMPANY IDENTIFICATION:** Atticus, LLC  
 940 NW Cary Parkway, Suite 200  
 Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

May be fatal if swallowed and enters airways (H304)

May be harmful if swallowed (H303)

May be harmful in contact with skin (H313)

Causes eye irritation (H320)

Very toxic to aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Aspiration Hazard	1	None	-
Carcinogenicity	2		
Acute Toxicity, oral	5	<b>Environmental Hazards</b>	<b>Category</b>
Acute Toxicity, dermal	5	Hazardous to the aquatic environment, short-term	1
Eye irritation	2B	Hazardous to the aquatic environment, long-term	1

#### HAZARDS NOT REQUIRING CLASSIFICATION

None

#### PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instructions before use. Wear protective gloves/clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. (P203+P280+P264+P265)

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

**IF SWALLOWED:** Get emergency medical help immediately. Do NOT induce vomiting. (P301+P316+P331)

**IF ON SKIN:** Get medical help. (P302+P317)

**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+P338+P337+P317)

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

Store locked up. (P405)

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
Carfentrazone-ethyl	Benzenepropanoic acid, .alpha., 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluoro-, ethyl ester	128639-02-1	21.30%
Naphtha (petroleum), heavy aromatic	Solvent naphtha (petroleum), heavy arom.	64742-94-5	20.0-30.0%
Naphthalene*	Naphthalene	91-20-3	< 3.0%
Pseudocumene*	1,2,4-trimethylbenzene	95-63-6	< 1.0%

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

\*This component is a constituent of the ingredient naphtha (petroleum), heavy aromatic.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the 1-844-685-9173 for emergency medical treatment information.

**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 further treatment advice.

**IF SWALLOWED:** Immediately call a doctor or poison control center. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. 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 to 20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 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.

**NOTE TO PHYSICIAN:** This product is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

## 5. FIREFIGHTING MEASURES

**Flash Point:** Not available

**Fire and Explosion Hazards:** None known.

**Extinguishing Medium:** Water spray, carbon dioxide (CO<sub>2</sub>), foam, or dry powder.

**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 / 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.

**Combustion Hazards:** The potential for fire or explosion is low as the solvents have a low vapor pressure. However, this product when heating or atomized in the presence of an ignition source may cause an explosion.

**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 earth, 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:** 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

### Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Carfentrazone-ethyl	TWA: 1 mg/m <sup>3</sup>	-	-	-
Naphthalene (CAS No. 91-20-3)	S* TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m <sup>3</sup> Mexico: STEL 15 ppm Mexico: STEL 75 mg/m <sup>3</sup>

Chemical Name	British Columbia	Quebec	Ontario TWA/EV	Alberta
Naphthalene (CAS No. 91-20-3)	TWA: 10 ppm STEL: 15 ppm skin	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup>	TWA: 10 ppm STEL: 15 ppm skin	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup> skin

**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, shoes plus socks, chemical resistant gloves made of barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, or viton > 14 mils.

**General:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	off-white liquid
<b>Odor:</b>	solvent
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point:</b>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	4-5
<b>Pycnometer viscosity:</b>	not available
<b>Solubility:</b>	not available
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Density:</b>	8.5-9.5 lb/gal
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Heat, flames, and sparks.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides (CO<sub>x</sub>), Hydrogen Chloride, Hydrogen fluoride, Nitrogen oxides (NO<sub>x</sub>), and sulfur oxides.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** 4,077 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 4,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 6.31 mg/L (4-hour)

**EYE IRRITATION:** Mildly irritating (Rabbit)

**SKIN IRRITATION:** Mildly irritating (Rabbit)

**SKIN SENSITIZATION:** Not a contact sensitizer (Guinea Pig)

### CARCINOGENICITY:

**EPA:** Not likely to be carcinogenic to humans. (carfentrazone-ethyl)

**ACGIH:** A3 (naphthalene)

**IARC:** Group 2B (naphthalene)

**NTP:** Reasonably anticipated (naphthalene)

**OSHA:** Listed (naphthalene)

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

**REPRODUCTIVE TOXICITY:** Not known to cause reproductive or birth defects at normal exposure levels.

## 11. TOXICOLOGICAL INFORMATION (CONT.)

**ASPIRATION HAZARD:** Potential for aspiration if swallowed. Vomiting after ingesting of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in a fatal pulmonary edema.

**TARGET ORGAN EFFECTS:** Carfentrazone: Red blood cell reduction can occur due to hemoglobin biosynthesis inhibition. Accumulation of precursors of hemoglobin may lead to secondary toxicity to liver and other organs. Naphthalene: can cause cataracts, liver damage, kidney failure, respiratory failure, hematuria, anemia, damage to red blood cells, leukocytosis, or coma.

## 12. ECOLOGICAL INFORMATION

Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish.

**The following information is for the active ingredient, Carfentrazone-ethyl:**

### AQUATIC TOXICITY

Rainbow Trout (96-hour LC<sub>50</sub>): 1.6 mg/L; (62-day NOAEC): 0.118 mg/L

Waterflea (48-hour EC<sub>50</sub>): > 9.8 mg/L

Algae (5-day EC<sub>50</sub>): 0.0065 mg/L (calculated); (NOAEC): 0.0019 mg/L

### AVIAN TOXICITY

Bobwhite Quail (Acute Oral LC<sub>50</sub>): > 2,250 mg/kg

Mallard Duck (5-day LC<sub>50</sub>): > 5,620 mg/kg

### OTHER TOXICITY

Honeybee (24-hour contact LD<sub>50</sub>): > 200 µg/bee

Honeybee (24-hour oral LD<sub>50</sub>): > 200 µg/bee

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used must 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 (5 L) in strong outer packaging:**

Not regulated

**Containers > 1.3 (5 L) or containers not in strong outer packaging:**

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

### IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (carfentrazone-ethyl), 9, PG III, Marine Pollutant

## 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

**CAUTION.** Harmful if swallowed. Harmful if absorbed through skin. 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.

### Environmental Hazards

Quistador is very toxic to algae and moderately toxic to fish.

### Fish Advisory Statement

This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas.

### Non-target Organism Advisory Statement

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site.

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): < 3.0%

1, 2, 4-Timethylbenzene (CAS No. 95-63-6): < 1.0%

**CERCLA Reportable Quantity (RQ) –**

Naphthalene (CAS No. 91-20-3): 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](http://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.

To the extent consistent with applicable law, neither Atticus, 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 ATTICUS, 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 ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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Manufactured for:  
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