

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Quinark EW
DESCRIPTION: A liquid herbicide
EPA REG. NO.: 91234-255
COMPANY IDENTIFICATION: Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

2. HAZARD IDENTIFICATION

DANGER

May be fatal if swallowed and enter airways (H304)
 Suspected of causing cancer (H351)
 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	Environmental Hazards	Category
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	21.3%
Naphtha (petroleum), heavy aromatic	Solvent naphtha (petroleum), heavy arom.	64742-94-5	< 30.0%
Naphthalene	-	91-20-3	< 3.0%
1,2,4-Trimethylbenzene	Benzene, 1,2,4-trimethyl-	95-63-6	< 1.5 %

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. You may also contact the 1-844-685-9172 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: Carfentrazone-ethyl 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 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 (CO₂), 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 heated or atomized in the presence of an ignition source may cause 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

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

Control Parameters

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

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 ³ STEL: 15 ppm STEL: 79 mg/m ³	TWA: 10 ppm STEL: 15 ppm skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³ skin

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

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

Appearance:	off-white liquid
Odor:	solvent
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	not available
Flammability limits (upper/lower):	not available
Flash point (cc):	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	4-5
Viscosity:	not available
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Density:	8.5-9.5 lb/gal
Particle characteristics:	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: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide (CO), carbon dioxide (CO₂), hydrogen chloride, hydrogen fluoride, nitrogen oxides (NO_x), sulfur oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

ORAL TOXICITY (rat LD₅₀): 4,077 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 4,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 6.31 mg/L (4-hour)

EYE IRRITATION: Mildly irritating (Rabbit)

SKIN IRRITATION: Mildly irritating (Rabbit)

SKIN SENSITIZATION: Based on a similar formulation, this product is not expected to produce skin sensitization.

CARCINOGENICITY:

EPA: Not likely to be carcinogenic to humans (carfentrazone)

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.

OTHER TOXICITY: Long-term exposure to carfentrazone caused hematotoxicity and deposit of porphyrin in the liver in animal studies. Potential of aspiration of this product if swallowed. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in a fatal pulmonary edema.

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 LC₅₀): 1.6 mg/L; (62-day NOAEC): 0.118 mg/L

Waterflea (48-hour EC₅₀): > 9.8 mg/L

Algae (5-day EC₅₀): 0.0065 mg/L (calculated); (NOAEC): 0.0019 mg/L

AVIAN TOXICITY

Bobwhite Quail (Acute Oral LC₅₀): > 2,250 mg/kg

Mallard Duck (5-day LC₅₀): > 5,620 mg/kg

OTHER TOXICITY

Honeybee (24-hour contact LD₅₀): > 200 µg/bee

Honeybee (24-hour oral LD₅₀): > 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

Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the high water mark, except as specified on this label. DO NOT contaminate water when disposing of equipment washwater or rinsate.

For ground water:

Residues of this chemical have properties and characteristics associated with chemicals detected in ground water. Residues of this chemical may leach into ground water if the chemical is used in areas where soils are permeable, particularly where the water table is shallow.

For surface water:

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 is classified as having high potential for reaching surface water via 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 loading of carfentrazone-ethyl residues from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

15. REGULATORY INFORMATION (cont.)

Fish Advisory Statement:

This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas. Transport to water by runoff or spray drift of this product in areas where surface water is present, or intertidal areas below the mean high water mark, should be avoided. Do not contaminate water when disposing of equipment wash water or rinsate.

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. Protect the forage and habitat of non-target organisms by minimizing spray drift.

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): < 1.5%

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.

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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