

PINZOLA™ EC

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Pinzola EC
DESCRIPTION: A liquid herbicide
EPA REG. NO.: 91234-179
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

DANGER

May cause cancer (H350)
Combustible liquid (H227)
May be fatal if swallowed and enters airways (H304)
May cause damage to organs through prolonged or repeated exposure (H373)
May cause drowsiness or dizziness (H336)
Causes eye irritation (H320)
Toxic to aquatic life (H401)



HAZARD CLASSIFICATION

Health Hazard	Category	Physical Hazard	Category
Carcinogenicity	1B	Flammable liquids	4
Aspiration Hazard	1	Environmental Hazards	Category
Serious eye damage/eye irritation	2B	Hazardous to the aquatic environment, short-term	2
Specific target organ toxicity-single exposure	3		
Specific target organ toxicity-repeated exposure	2		

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come in 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 surfaces, sparks, open flames, and other ignition sources. No smoking. (P210)
Do not breath mist, vapors, or spray. (P260)
Use only outdoors or in a well-ventilated area. (P271)
Wash hands and exposed skin thoroughly after handling. (P264)
Avoid release to the environment not in accordance with the product label. (P273)
Wear eye protection/face protection and other protective clothing as described in Section 8 of this document. (P280)

IF IN EYES: Rinse eyes 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)

2. HAZARD IDENTIFICATION (CONT.)

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

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

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

In case of fire: Use dry chemical, foam or CO₂ to extinguish. (P370+P378)

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
Trinexapac-Ethyl	4-(Cyclopropyl-a-hydroxymethyl)-3,5-dioxo-cyclohexanecarboxylic acid	95266-40-3	12.0%
1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	95-63-6	<1.0%
Naphthalene	Naphthalene	91-20-3	<5.0%

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.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further 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.

NOTE TO PHYSICIAN: If ingested, lavage stomach with care to prevent aspiration of stomach contents. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIREFIGHTING MEASURES

Flash Point: 86°C (187°F)

Fire and Explosion Hazards: Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

Extinguishing Medium: Foam, dry chemical, or carbon dioxide (CO₂). If water is used to fight fire, dike and collect run off.

Fire Fighting Equipment: Firefighters should wear NIOSH approved self-contained breathing apparatus and full firefighting turn out 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. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate firefighting gear and personal protective equipment before reuse.

Hazardous Combustion Products: During a fire, irritating and possibly 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 un-protected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from contaminating soil, entering public sewer systems or any waterways. Do not flush to drain.

Spill Cleanup: Clean up spills immediately observing precautions outlined in Section 8. Absorb spill with suitable material such as clay, sand, or dirt. Shovel (plastic or aluminum) or sweep up and collect in suitable container for disposal. Wash area with detergent and water, collect wash liquid with additional absorbent and place in compatible container for disposal.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Storage: Store in a tightly closed container in a cool, dry, well-ventilated 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. Use effective engineering controls to comply with occupational exposure limits (if applicable).

Protective Clothing: Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical-resistant gloves (made of barrier laminate or Viton); protective eyewear; and shoes plus socks.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	transparent amber liquid
Odor:	moderately sweet
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	combustible
Flammability limits (upper/lower):	not available
Flash point:	187°F
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	3-4 (1% aq.)
Kinematic viscosity:	7.23 cP @ 25°C 4.70 cP @ 40°C
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Density:	0.9 – 1.1 g/cm ³
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 5130 mg/kg

DERMAL TOXICITY (rabbit LD₅₀): > 2,020 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.7 mg/L (4-hour)

EYE IRRITATION: Moderately irritating

SKIN IRRITATION: Slightly irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

NTP: anticipated carcinogen (naphthalene)

IARC: Group 2B possible human carcinogen (naphthalene)

EPA: Not likely to be carcinogenic to humans (trinexapac-ethyl)

MUTAGENIC TOXICITY: None

REPRODUCTIVE/TERATOGENICITY TOXICITY: No evidence in animal studies for the active ingredient.

OTHER TOXICITY:

Trinexapac-ethyl: Liver, kidney, and brain effects in animals at high doses (>5000 ppm).

1,2,4-Trimethylbenzene: Central Nervous System (CNS), liver, kidney, blood, respiratory tract, skin, eye

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

Petroleum Solvent: Respiratory tract, stomach, liver, thyroid, urinary bladder, CNS, skin. Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to aquatic plants and practically non-toxic to slightly toxic to freshwater fish. Trinexapac is practically non-toxic to freshwater invertebrates and slightly toxic to moderately toxic to estuarine/marine invertebrates. Trinexapac is practically non-toxic to honeybees.

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

AQUATIC TOXICITY

Rainbow Trout (96-hr LC₅₀): 68 mg/L
Fathead minnow (NOAEC): 0.41 mg/L
Daphnia Magna (48-hr EC₅₀): > 145.5 mg/L; (NOAEC): 2.4 mg/L
Mysid shrimp (EC₅₀): 6.5 mg/L; (NOAEC): < 3.4 mg/L
Blue-green algae (EC₅₀): 0.35 mg/L; (NOAEC): 0.11 mg/L

AVIAN TOXICITY

Mallard Duck (LD₅₀): > 5200 mg/kg
Zebra finch (LC₅₀): 813 mg/kg (slightly toxic)

OTHER TOXICITY

Honeybee (contact LD₅₀): 47 µg/bee

Trinexapac has low bioaccumulation potential and is not persistent in soil or water. It has moderate mobility in soil and sinks in water (after 24-hr).

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 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:

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

Not regulated

Containers > 1.3 gal. (5 L) and < 119 gal. (450 L) shipped "ground only":

Not regulated

Containers > 1.3 gal. (5 L) shipped all or in part by vessel:

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (trinexapac-ethyl, naphthalene), 9, PG III, Marine Pollutant

Hazardous Substance RQ: 100 lbs. (approximately 2,000 gallons of product)

Emergency Guide: 171

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

Shipping Description: NA1993, Combustible liquid, N.O.S. (trinexapac-ethyl, naphthalene), PG III, Marine Pollutant

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. (trinexapac-ethyl, naphthalene), 9, PG III, Marine Pollutant

IATA:

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

Not regulated

14. TRANSPORT INFORMATION (CONT.)

Containers > 1.3 gal. (5 L):

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (trinexapac-ethyl, naphthalene), 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.

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 Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. 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

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 by disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift from treated areas. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

PHYSICAL OR CHEMICAL HAZARDS:

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, Delayed, 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

1,2,4-Trimethylbenzene (CAS No. 96-63-6)
Naphthalene (CAS No. 91-20-3)

CERCLA Reportable Quantity (RQ) –

Report spills > 2,000 gal. (based on naphthalene [RQ = 100 lbs.] content in formulation).

15. REGULATORY INFORMATION (CONT.)

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.

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.

SDS Version: 1.0

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