

# BERATI™

## 10 XC

### SAFETY DATA SHEET

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

#### 1. IDENTIFICATION

**PRODUCT NAME:** Berati 10 XC  
**DESCRIPTION:** Plant Growth Regulator  
**EPA REG. NO.:** 91234-353  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### DANGER

Causes serious eye damage (H318)  
Causes mild skin irritation (H316)  
May cause respiratory irritation (H335)  
Combustible liquid (H227)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Other Hazards	Category
Eye Damage/Irritation	1	Flammable Liquids	4
Skin Corrosion/Irritation	3		
Specific Target Organ Toxicity – Single Exposure	3	Environmental Hazards None	Category -

##### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

##### PRECAUTIONARY STATEMENTS

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/spray. Wash hands thoroughly after handling. Do not touch eyes. Use only outdoors or with adequate ventilation. Wear eye protection/face protection. (P210=P261+P264+P265+P271+P280)

**IF IN EYES:** Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. (P305+P354+P338+P317)

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

If skin irritation occurs: Get medical help. (P332+P317)

Store in a well-ventilated place. Keep container tightly closed Store locked up. (P403+P233+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
Paclitaxel	1H-1,2,4-Triazole-1-ethanol, .beta.-[(4-chlorophenyl)methyl]-.alpha.-(1,1-dimethylethyl)-, (.alpha.R, .beta.R)-rel-	76738-62-0	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 Day or Night. Within USA and Canada: 1-800-424- 9300 or +1 703-527-3887 (collect calls accepted)

**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.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** 61°C.

**Fire and Explosion Hazards:** Do not use or store near heat or open flame.

**Extinguishing Medium:** Water fog, dry chemical, foam or carbon dioxide (CO<sub>2</sub>). If water is used to fight fire, dike and collect runoff.

**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. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting 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 – 1 / 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:** Dike spill using suitable absorbent or impervious materials such as 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:** Do not get in eyes or on clothing. Avoid contact with skin. Wear protective clothing (long-sleeved shirt, long pants, socks, and shoes) and eyewear such as goggles, face shield, or safety glasses, and gloves. 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.

**Protective Clothing:** Applicators, and other handlers must wear chemical-resistant gloves made of out of: barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, polyvinyl chloride >14 mils, or Viton >14 mils, protective eye wear (goggles, face shield, or safety glasses), 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

<b>Appearance:</b>	transparent pale yellow liquid
<b>Odor:</b>	mild sweet
<b>Melting / Freezing Point:</b>	no data available
<b>Boiling Point / Range:</b>	no data available
<b>Flammability:</b>	no data available
<b>Flam. Limits (upper/lower):</b>	no data available
<b>Flash Point (cc):</b>	141°F; 61°C
<b>Auto-Ignition Temp.:</b>	no data available
<b>Decomposition Temp.:</b>	no data available
<b>pH:</b>	3.0-4.0
<b>Capillary Viscosity:</b>	18.3 cP at 24°C 10.9 cP at 39°C
<b>Solubility:</b>	no data available
<b>Density:</b>	8.35 lbs/gal
<b>Partition Coefficient:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Particle Char.:</b>	no data available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** None known.

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

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following information is from a substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** >5,000 mg/kg (EPA Category IV)

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** >5,000 mg/kg (EPA Category IV)

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 2.14 mg/L (4-hour) (EPA Category IV)

**EYE IRRITATION:** Extremely irritating to eyes (Rabbit) (EPA Category I)

**SKIN IRRITATION:** Mildly irritating to skin (Rabbit) (EPA Category III)

**SKIN SENSITIZATION:** Non-sensitizing (Mouse)

**CARCINOGENICITY:**

**EPA:** The Agency has not classified the carcinogenic potential (paclobutrazol)

**ACGIH:** Not Listed      **NTP:** Not Listed

**IARC:** Not Listed      **OSHA:** Not Listed

**MUTAGENIC TOXICITY:** Paclobutrazol was negative for any gene mutations.

**REPRODUCTIVE TOXICITY:** No data available.

**NEUROTOXICITY:** No evidence of neurotoxicity from subacute or longer-term studies in mammals. No specific neurotoxicity studies have been conducted.

**CHRONIC TOXICITY:** No data available.

## 12. ECOLOGICAL INFORMATION

This product is moderately toxic to aquatic organisms.

**Information presented below is from testing done with the active ingredient, paclobutrazol:**

Rainbow Trout (96-hour LC<sub>50</sub>): 27.8 mg/L; (NOAEC): 3.3 mg/L

Water Flea (48-hour LC<sub>50</sub>): 33.2 mg/L

Green Algae (96-hour EC<sub>50</sub>): 40.8 mg/L

**AVIAN TOXICITY**

Mallard (Oral LD<sub>50</sub>): >7,900 mg/kg (body weight)

**HONEYBEE TOXICITY**

Honeybee (Acute Oral NOEL): >0.002 mg/bee

## 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:

#### Containers ≤ 119 gal. (450 L):

Not regulated

#### Containers ≥ 119 gal. (450 L):

NA1993, Combustible liquid, N.O.S., (contains ethyl lactate), PG III

### IMDG:

Shipped by vessel: Not regulated

### IATA:

Shipped by air: Not regulated

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.** Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Avoid contact with skin or clothing. Wear protective clothing (long-sleeved shirt, long pants, socks, and shoes) and eyewear such as goggles, face shield, or safety glasses, and gloves. 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 when disposing of equipment or disposal of equipment washwaters or rinsate.

##### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur. Combustible. Do not use or store near heat or open flame.

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

Not listed

#### 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

Not listed

#### CERCLA Reportable Quantity (RQ) –

Not listed

#### RCRA Code

Not applicable

#### 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.

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

Effective Date: 11/01/2023



Manufactured for:  
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