



# BOLLIDE™

## 6L

### SAFETY DATA SHEET

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

#### 1. IDENTIFICATION

**PRODUCT NAME:** Bollide 6 L  
**DESCRIPTION:** A liquid plant growth regulator  
**EPA REG. NO.:** 91234-160  
**COMPANY IDENTIFICATION:** Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### DANGER

Causes severe eye damage and skin burns (H314)  
Harmful if inhaled (H332)  
Harmful in contact with skin (H312)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Eye Damage / Irritation	1	None	-
Skin Damage / Irritation	1C		
Acute Toxicity – Inhalation	4	<b>Environmental Hazards</b>	<b>Category</b>
Acute Toxicity – Dermal	4	None	-

##### HAZARDS NOT REQUIRING CLASSIFICATION

None.

##### PRECAUTIONARY STATEMENTS

Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area in accordance with the product label. (P260+P271)

Wear protective clothing, gloves and eye / face protection. Take off contaminated clothing and wash it before reuse. (P280+P362+P364)

Wash hands and exposed skin thoroughly after handling. (P264)

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Call a poison control center or doctor if you feel unwell. (P303+P361+P353+P363+P312)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER / doctor. (P304+P340+P310)  
Specific treatment (see Section 4 of this document). (P321)

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Store locked up. (P405)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Ethephon	(2-chloroethyl) phosphonic acid	16672-87-0	55.4%

**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 when going for treatment. You may also contact SafetyCall 1-844-685-9173 24-hours a day for emergency medical treatment information. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**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.

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

**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.

**NOTE TO PHYSICIAN:** Treat symptomatically. Consider the possibility that overexposure to materials other than this product may have occurred. Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** No data available

**Fire and Explosion Hazards:** No data available

**Extinguishing Medium:** Water spray, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Avoid high volume water jet (contamination risk).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

## 5. FIREFIGHTING MEASURES (continued)

**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.

**Hazardous Combustion Products:** Oxides of carbon and nitrogen.

**NFPA Ratings:** Health – 3 / 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 any waterways or low areas. Do not flush to drain or soil. Contain contaminated water. 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.

**Spill Cleanup:** Clean up spill immediately, observing precautions in Section 8. Recover the product by pumping, suction or absorption using a dry and inert absorbent clay. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean floors and contaminated objects with plenty of water. Decontaminate tools and equipment following cleanup.

## 7. HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or on clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Storage:** Store in original container in a cool, dry location away from food, feed, and other pesticides. Ethephon 6 must be stored and used in ventilated areas only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Protective Clothing:** Handlers must wear: Coveralls over short-sleeved shirts and short pants. Chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene and/or barrier laminate. Chemical-resistant footwear plus socks. Protective eyewear. Chemical-resistant headgear for overhead exposure. Chemical-resistant apron when mixing, loading or cleaning equipment.

**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 and 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>	Translucent amber liquid
<b>Odor:</b>	Odorless
<b>Melting / Freezing point:</b>	not applicable
<b>Boiling Point / Boiling Range:</b>	Approx. 100°C (212°F)
<b>Flammability:</b>	not applicable
<b>Flammability Limits:</b>	not applicable
<b>Flash Point:</b>	not applicable
<b>Auto-ignition Temperature:</b>	no data available
<b>Decomposition Temperature:</b>	no data available
<b>pH:</b>	1.65
<b>Kinematic Viscosity:</b>	no data available
<b>Solubility:</b>	Miscible in water
<b>Partition coefficient:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Specific Gravity:</b>	1.32
<b>Density:</b>	11 lbs./gal. @ 25°C
<b>Particle Characteristics:</b>	no data available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Elevated temperatures or temperatures below 1°C (34°F).

**CHEMICAL STABILITY:** Stable at normal temperatures and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong bases and strong oxidizing agents. Metals such as aluminum, tin and zinc.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may release oxides of carbon, oxides of phosphorous, and hydrogen chloride.

**HAZARDOUS POLYMERIZATION:** Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Information presented below is for the active ingredient, Ethephon:**

**ORAL TOXICITY (rat LD<sub>50</sub>):** 3,200 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** 1,740 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 4.9 mg/L (4-hour), may cause irritation of mucous membranes

**EYE IRRITATION:** Corrosive, causes irreversible eye damage

**SKIN IRRITATION:** Severely irritating

**SKIN SENSITIZATION:** Not a sensitizer

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Not listed

**MUTAGENIC TOXICITY:** Animal Testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**REPRODUCTIVE TOXICITY:** No evidence of fertility or reproductive effects for the active ingredient Ethephon.

**TERATOGENICITY:** Evidence suggests the substance is not a developmental toxin in animals.

**OTHER TOXICITY:** No data available.

## 12. ECOLOGICAL INFORMATION

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 washwaters. Do not contaminate water used for irrigation or domestic purposes.

The following information is for the active ingredient, Ethephon:

Rainbow Trout: (96h LC<sub>50</sub>): 720 mg/L  
Daphnia Magna: (48h EC<sub>50</sub>): >1000 mg/L

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. 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:

Shipping Description: UN3265, Corrosive Liquid, Acidic, Organic, N.O.S. (contains ethephon), 8, PG III

Emergency Guide: 153

### IMDG:

Shipped internationally by vessel: UN3265, Corrosive Liquid, Acidic, Organic, N.O.S. (contains ethephon), 8, PG III

**IMDG Note:** IMDG Segregation Group 1 - Acids

### IATA:

Shipped by air: UN3265, Corrosive Liquid, Acidic, Organic, N.O.S. (contains ethephon), 8, 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

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing.

### 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 washwaters. Do not contaminate water used for irrigation or domestic purposes.

### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

### SARA Title III – Section 311/312 Hazard Categories

Immediate

### 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

None

### CERCLA Reportable Quantity (RQ) –

Not listed

### CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the state of California to cause cancer or 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: 1.3

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