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Version 5

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier.**

**Product Name** Atrimmec® Plant Growth Regulator

**Other means of identification**

**Product Code** PBI FP 6621076

**EPA Pesticide Registration Number** 2217-776

**Product Size** 4/1 U. S. Gal.

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Growth regulator

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**

PBI-Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286

**Company Name**

PBI-Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286

**Manufacturer**

PBI-Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286

**Emergency telephone number**

**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                    |             |
|------------------------------------|-------------|
| Skin Corrosion/Irritation Category | Category 3  |
| Serious eye damage/eye irritation  | Category 2B |
| Acute Aquatic Toxicity             | Category 3  |
| Flammable liquids                  | Category 3  |

**Label elements**

**Emergency Overview**

**Signal word**

Warning

**Hazard statements**

- Causes mild skin irritation
- Causes eye irritation
- Harmful to aquatic life
- Flammable liquid and vapor



**Appearance** Liquid

**Physical state** Liquid

**Odor** No discernible odor

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing must not be allowed out of the workplace  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Keep container tightly closed  
 Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response**

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 advice/attention  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 Wash contaminated clothing before reuse  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H; however OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

**Other information**

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

| Chemical name    | CAS No       | Weight-% |
|------------------|--------------|----------|
| Dikegulac-sodium | 52508-35-7   | 18.5     |
| Trade Secret     | Trade secret | 2-5*     |
| Trade Secret     | Trade secret | 0-1*     |
| Trade Secret     | Trade secret | 0-1*     |

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician. |
| <b>Skin contact</b> | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.  |
| <b>Inhalation</b>   | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.   |

**Self-protection of the first aider** Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical** In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. See section 8 for more information.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so Prevent product from entering drains Do not flush into surface water or sanitary sewer system See Section 12 for additional ecological information Avoid release to the environment

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Use personal protection equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Limits**

| Chemical name | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|---------------|------------------------------|--|--|
| Trade Secret  | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup>                                       | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup>   |
| Trade Secret  | STEL: 15 ppm<br>TWA: 10 ppm  | TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup><br>(vacated) TWA: 10 ppm<br>(vacated) TWA: 25 mg/m <sup>3</sup> | IDLH: 50 ppm<br>TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 37 mg/m <sup>3</sup> |

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
 Ceiling Maximum limit value \* Skin designation

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

**Engineering controls** Showers  
 Eyewash stations  
 Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Chemical resistant gloves.

**Skin and body protection** Wear suitable protective clothing. Wear long-sleeved shirt, long pants, socks and shoes.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Liquid  
**Color** Light blue  
**Odor** No discernible odor  
**Odor threshold** No information available

| <u>Property</u>               | <u>Values</u>     | <u>Remarks • Method</u> |
|-------------------------------|-------------------|-------------------------|
| pH                            | 9.5               |                         |
| Melting point/freezing point  | No data available | None known              |
| Boiling point / boiling range | 100 °C / 212 °F   |                         |
| Flash point                   | 44 °C / 111 °F    |                         |
| Evaporation rate              | > 1               |                         |
| Flammability (solid, gas)     | No data available | None known              |
| Flammability Limit in Air     |                   | None known              |

|                                     |                   |            |
|-------------------------------------|-------------------|------------|
| <b>Upper flammability limit:</b>    | No data available |            |
| <b>Lower flammability limit:</b>    | No data available |            |
| <b>Vapor pressure</b>               | <17 mm Hg         |            |
| <b>Vapor density</b>                | <1                |            |
| <b>Specific Gravity</b>             | 1.0951            |            |
| <b>Water solubility</b>             | Soluble in water  |            |
| <b>Solubility in other solvents</b> | No data available | None known |
| <b>Partition coefficient</b>        | No data available | None known |
| <b>Autoignition temperature</b>     | No data available | None known |
| <b>Decomposition temperature</b>    | No data available | None known |

**Other Information**

|                             |                          |
|-----------------------------|--------------------------|
| <b>Oxidizing properties</b> | No information available |
| <b>Liquid Density</b>       | 9.12 pounds/gallon       |
| <b>Bulk density</b>         | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No information available

**Stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

Will not occur.

**Conditions to avoid**

Keep out of reach of children.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause irritation of respiratory tract. |
| <b>Eye contact</b>  | Causes eye irritation.                     |
| <b>Skin contact</b> | Causes mild skin irritation.               |
| <b>Ingestion</b>    | May be harmful if swallowed.               |

**Component Information**

| Chemical name                  | Oral LD50            | Dermal LD50  | Inhalation LC50         |
|--------------------------------|----------------------|--|-------------------------|
| Dikegulac-sodium<br>52508-35-7 | = 18 g/kg ( Rat )    | > 1 g/kg ( Rabbit ) > 1 g/kg ( Rat )<br>> 2000 mg/kg ( Rat ) | > 2 mg/L ( Rat ) 4 h    |
| Trade Secret                   | = 325 mg/kg ( Rat )  | = 1350 mg/kg ( Rabbit )                                      | -                       |
| Trade Secret                   | = 1020 mg/kg ( Rat ) | -  | -                       |
| Trade Secret                   | = 3310 mg/kg ( Rat ) | = 1060 mg/kg ( Rabbit )                                      | = 11.4 mg/L ( Rat ) 4 h |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity****Numerical measures of toxicity - Product Information****Unknown Toxicity**

27 % of the mixture consists of ingredient(s) of unknown toxicity

27 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

27 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

27 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**LD50 Oral** > 5000 mg/kg Rat-female

**LD50 Dermal** > 5000 mg/kg (rat)

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Causes mild skin irritation.

**Serious eye damage/eye irritation** Causes eye irritation.

**Respiratory or skin sensitization** Not a skin sensitizer.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Respiratory system, Eyes, Skin.

|                                   |
|-----------------------------------|
| <b>12. ECOLOGICAL INFORMATION</b> |
|-----------------------------------|

**Ecotoxicity** Harmful to aquatic life.

| Chemical name | Algae/aquatic plants | Fish   | Toxicity to microorganisms  | Crustacea  |
|---------------|----------------------|--|---|--|
| Trade Secret  | -                    | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static  | -   | -  |
| Trade Secret  | -                    | 79: 96 h Pimephales promelas mg/L LC50 static<br>75: 96 h Lepomis macrochirus mg/L LC50 static | EC50 = 8.8 mg/L 15 min<br>EC50 = 8.8 mg/L 25 min<br>EC50 = 8.8 mg/L 5 min | 47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|  |  |
|--|--|
| <b>Waste from residues/unused products</b> | Disposal should be in accordance with applicable regional, national and local laws and regulations. Should not be released into the environment. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.   |
| <b>US EPA Waste Number</b>                 | D001, See Section 2: Hazards not otherwise classified (HNOC).  |

### 14. TRANSPORT INFORMATION

|                                   |  |
|-----------------------------------|--|
| <b>DOT</b>                        | Not regulated  |
| <b>TDG</b>                        | Not regulated  |
| <b>MEX</b>                        | Not regulated  |
| <b>ICAO (air)</b>                 | Not regulated  |
| <b>IATA</b>                       | Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg.  |
| <b>UN number</b>                  | UN3082   |
| <b>UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  |
| <b>Transport hazard class(es)</b> | 9  |
| <b>Packing group</b>              | III  |
| <b>Special Provisions</b>         | A97, A158, A197  |
| <b>Description</b>                | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dikegulac-sodium), 9, III                   |
| <b>IMDG</b>                       | Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg.  |
| <b>UN number</b>                  | UN3082   |
| <b>UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  |
| <b>Transport hazard class(es)</b> | 9  |
| <b>Packing group</b>              | III  |
| <b>EmS-No.</b>                    | F-A, S-F   |
| <b>Special Provisions</b>         | 274, 335, 969  |
| <b>Description</b>                | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIKEGULAC-SODIUM), 9, III, MARINE POLLUTANT |

### 15. REGULATORY INFORMATION

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 2217-776

#### **Federal Insecticide, Fungicide, Rodenticide Act Regulations**

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. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Caution

Keep out of the reach of children

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing.

Environmental Hazards

For terrestrial uses: Do not apply directly to water, or to areas where water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### International Inventories

|                      |            |
|----------------------|------------|
| <b>TSCA</b>          | Not Listed |
| <b>DSL/NDSL</b>      | Not Listed |
| <b>EINECS/ELINCS</b> | Not Listed |
| <b>ENCS</b>          | Not Listed |
| <b>IECSC</b>         | Not Listed |
| <b>KECL</b>          | Not Listed |
| <b>PICCS</b>         | Not Listed |
| <b>AICS</b>          | Not Listed |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

##### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Trade Secret  | 1000 lb                     | -                      | -                         | X                          |
| Trade Secret  | 5000 lb                     | -                      | -                         | X                          |

##### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| Trade Secret  | 1000 lb                  | -                                  |
| Trade Secret  | 5000 lb                  | -                                  |

#### US State Regulations

##### U.S. State Right-to-Know Regulations

##### US State Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Trade Secret  | X          | X             | X            |
| Trade Secret  | X          | X             | X            |



|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 1 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 2 | Flammability 1 | Physical hazards 0 | Personal protection X              |

**Disclaimer**

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**End of Safety Data Sheet**