



## Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

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### SECTION 1: Identification

#### Product Identifier

**Product Name:** Acuity PGR

**Product code:** EPA Reg. No.: 91234-234

**Recommended Use of the Chemical and Restrictions on Use:**

**Recommended Uses:** Water soluble granule plant growth regulator

**Restrictions on Use:** Any use other than specified above

#### Manufacturer or Supplier Details

**Manufacturer:**

**United States**

Atticus, LLC

940 NW Cary Parkway

Suite 200

Cary, North Carolina 27513

(984) 465-4754



#### Emergency Telephone Number:

**For Chemical Emergency**

CHEMTREC

1-800-424-9300 (24 hours)

+1-703-527-3887 (24 hours)

Collect calls accepted

**For Emergency Medical Treatment Information**

SAFETYCALL

1-844-685-9173 (24 hours)

### SECTION 2: Hazard Identification

#### Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Eye irritation, category 2B

Combustible Dust

#### Label elements

**Hazard Symbol(s):** None

**Signal Word:** Warning

**Hazard statement(s):**

Comb. dust May form combustible dust concentrations in air

H320 Causes eye irritation

**Precautionary Statement(s):**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash hands thoroughly after handling.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

**Hazards Not Otherwise Classified:** None

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## SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 127277-53-6	Prohexadione calcium	27.5

### Additional information:

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## SECTION 4: First Aid Measures

### Description of Necessary Measures

#### General Notes:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night within USA and Canada at 1-800-424-9300 or +1-703-527-3887 (collect calls accepted) Show this Safety Data Sheet to the doctor in attendance

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

#### After Eye Contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

#### After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing  
Inhalation of large amounts of dust may cause inflammation and irritation of the nose and throat.  
Symptoms may include cough, sore throat, tightness of the chest, chest pain and lightheadedness

#### Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time)

### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

#### Immediate Medical Attention:

No additional information.

#### Special Treatment:

No additional information.

#### Notes for the Doctor:

Treat symptomatically

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## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Dry chemical, sand and carbon dioxide

#### Unsuitable Extinguishing Media:

Do not use water, halogenated extinguishing agents and alcohol-based foam

### Specific Hazards Arising From The Chemical:

May form combustible dust concentrations in air. Reacts with water and alcohols. Reacts violently with oxidants, strong acids and bases and chlorinated hydrocarbons. This generates a fire and explosion hazard. Thermal decomposition may produce irritating/toxic fumes/gases

Hazardous combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides

### Special Protective Equipment and Precautions for Fire-Fighters

#### Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode

#### Special precautions

Violent reactions may result from the use of a water jet or halogenated extinguishing agents. When using extinguishers, avoid dispersing combustible dust into the air. Aim extinguishers directly at the base of the flames and apply the agent as gently as possible. Overall, give preference to using medium to wide spray patterns rather than solid streams. Use only non-sparking tools. Fire fight from a protected location or maximum possible distance. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Extinguish any sources of ignition. Do not ventilate area as this may spread dust. Wear recommended personal protective equipment including suitable respiratory protection (see Section 8). Ensure no sources of electric discharge or ignition are on your person before entering area. Do not get on skin, eyes or on clothing. Avoid breathing dust, fumes. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

### Methods and Material for Containment and Cleaning Up:

Avoid dust generation or stirring up of dust. Use only non-sparking tools. Ground all equipment used for recovery and clean up. Vacuum up and place in suitable containers for future disposal. Only use vacuum cleaners approved for dust collection. Dispose of in accordance with all applicable regulations (see Section 13)

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Use dust explosion proof electrical equipment and lighting. Avoid dust generation and dispersal of dust in air. Dust deposits should not be allowed to accumulate on surfaces. Clean dust residues at regular intervals. Do not use brooms or compressed air hoses to clean surfaces. Only use vacuums approved for dust collection. Use only non-sparking tools. Dry powders can build static electricity charges when subjected to the friction of

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transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inner atmospheres. Keep containers tightly closed and grounded when not in use. Workers whose clothing may have been contaminated should change into non-contaminated clothing before leaving the work premises. Contaminated clothing should be segregated in such a manner so that there is no direct personal contact by personnel who handle, dispose or clean the clothing. Contaminated clothing should not be allowed out of the workplace. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10).

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

This product is a combustible material which may be ignited by friction, heat, sparks or flames. It is recommended that all dust control equipment (such as local exhaust ventilation and material transport systems) involved in handling this product contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Keep static electricity under control, which includes the bonding and grounding of equipment. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Individual Protection Measures, Such as Personal Protective Equipment

#### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing

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before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

Physical state	Granules
Color	Light brown
Odor (includes odor threshold)	Nearly odorless
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	6.35 (1% dispersion)
Kinematic viscosity	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	0.575 g/cm <sup>3</sup> (35.9 pounds/cubic foot) at indoor ambient temperature
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

### Other Information

No additional information.

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, static discharge, ignition sources, dust generation and accumulation and incompatible materials.

### Incompatible Materials:

Oxidants, strong acids and bases and chlorinated hydrocarbons

### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

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### Product Data:

Route	Result
Oral	LD50 Rat: > 5,000 mg/kg
Dermal	LD50 Rat: > 2,000 mg/kg
Inhalation	LC50 Rat: > 5.7 mg/L (4 hr)

### Substance Data:

Name	Route	Result
Prohexadione calcium	oral	LD50 Rat: > 5,000 mg/kg
	dermal	LD50 Rabbit: > 2,000 mg/kg
	inhalation	LC50 Rat: > 4.2 mg/L (4 hr)

### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

Slightly irritating (rabbit)

#### Substance Data:

Name	Result
Prohexadione calcium	Non-irritant (rabbit)

### Serious Eye Damage/Irritation

#### Assessment:

Causes eye irritation.

#### Product Data:

Moderately irritating (rabbit)

#### Substance Data:

Name	Result
Prohexadione calcium	Slight irritant (rabbit)

### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

Not a skin sensitizer (guinea pig)

#### Substance Data:

Name	Result
Prohexadione calcium	Not a dermal sensitizer

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Species	Result
Prohexadione calcium		EPA: Not likely to be carcinogenic to humans

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

**OSHA Carcinogens:** Not applicable

### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

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### Product Data:

No data available.

### Substance Data:

Name	Result
Prohexadione calcium	No evidence of mutagenicity

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

### Substance Data:

Name	Result
Prohexadione calcium	No evidence of reproductive toxicity

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

### Information on Likely Routes of Exposure:

No data available.

### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

### Interactive effects:

No additional information.

### Other Information:

Information in this section is provided from a similar formulation.

## SECTION 12: Ecological Information

### Ecotoxicity

#### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

### Substance Data:

Name	Result
Prohexadione calcium	Fish LC50 Rainbow trout: 94.6 mg/L (96 hr)
	Fish LC50 Bluegill sunfish: 95.6 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 90 mg/L (48 hr)

#### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

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**Product Data:** No data available.

**Substance Data:**

Name	Result
Prohexadione calcium	Aquatic Invertebrates NOEC Daphnia magna: 12.5 mg/L

### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

Name	Result
Prohexadione calcium	Not expected to persist in the environment

### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

Name	Result
Prohexadione calcium	Octanol/water partition coefficient and low persistence suggest little or no potential to bioaccumulate

### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

Name	Result
Prohexadione calcium	Likely to be mobile in some soils but rapid degradation suggests little potential to contaminate most ground water

### Results of PBT and vPvB assessment

**Product Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Other Adverse Effects:** No additional information.

## SECTION 13: Disposal Considerations

### Disposal Methods:

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Contaminated packaging:

**CONTAINER DISPOSAL:** Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None

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<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	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.

### International Maritime Dangerous Goods (IMDG)

<b>UN Number</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Transport Hazard Class(es)</b>	None
<b>Packing Group</b>	None
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	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.

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN Number</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Transport Hazard Class(es)</b>	None
<b>Packing Group</b>	None
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	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.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

<b>Bulk Name</b>	Not Applicable
<b>Ship Type</b>	Not Applicable
<b>Pollution Category</b>	Not Applicable

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## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:** None of the ingredients are listed.

**New Jersey Right to Know:** None of the ingredients are listed.

**New York Right to Know:** None of the ingredients are listed.

**Pennsylvania Right to Know:** None of the ingredients are listed.

**California Proposition 65:** None of the ingredients are listed.

**Additional information:** FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (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 regulatory information presented outside of this FIFRA section is pertinent only when this product is handled outside of normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA. The following is the hazard information as required on the pesticide label:., PRECAUTIONARY STATEMENTS, HAZARDS TO HUMANS AND DOMESTIC ANIMALS, CAUTION. Harmful if absorbed through the 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, DO NOT apply directly to water, 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 or rinsate., Endangered Species Concerns: The use of any pesticide in a manner that may kill or otherwise harm an endangered or adversely modify their habitat is a violation of federal law., PHYSICAL AND CHEMICAL HAZARDS, DO NOT mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

## SECTION 16: Other Information

### Disclaimer:

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.

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End of Safety Data Sheet