



# ANDARA™

## PGR

### SAFETY DATA SHEET

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

#### 1. IDENTIFICATION

**PRODUCT NAME:** Andara PGR  
**DESCRIPTION:** Plant growth regulator  
**EPA REG. NO.:** 91234-233  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### WARNING

Causes eye irritation (H302)  
Toxic to aquatic life (H401)

##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage/irritation	2B	None	-
		Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term	2

##### HAZARDS NOT REQUIRING CLASSIFICATION

DO NOT mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

##### PRECAUTIONARY STATEMENTS

Wash hands thoroughly after handling. Do not touch eyes. (P264+P65)

**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 help. (P305+P351+P338+P337+P317)

Avoid release to the environment not in accordance with the product label. (P273)

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
Prohexadione calcium	Cyclohexanecarboxylic acid, 3,5-dioxo-4-(1-oxopropyl)-, ion(1-), calcium, calcium salt	127277-53-6	27.5%

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the 1-844-685-9172 for emergency medical treatment information.

**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.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** Not available.

**Fire and Explosion Hazards:** Not available.

**Extinguishing Medium:** Foam, dry powder, carbon dioxide (CO<sub>2</sub>), or water spray.

**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. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**Combustion Hazards:** The potential for fire or explosion is low as the solvents have a low vapor pressure. However, this product when heated or atomized in the presence of an ignition source may cause explosion. Substances such as carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides can be released in case of fire.

**NFPA Ratings:** Health – 1 / 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:** Contain spillage and minimize spread. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

**Spill Cleanup:** Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes, or clothing.

**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:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations. 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 long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks.

**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/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	tan solid, granules
<b>Odor:</b>	characteristic
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point:</b>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	6-7
<b>Pycnometer viscosity:</b>	not available
<b>Solubility:</b>	not available
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	negligible
<b>Density:</b>	35-37 lb/ft <sup>3</sup>
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid all sources of ignition; heat, sparks, open flame. Avoid prolonged storage, electro-static discharge, contamination, prolonged exposure to extreme heat and temperatures. This product may form an explosive mixture if the dust is suspended in the atmosphere as a dust cloud and the concentration of the dust is above the lower explosion limit (LEL) and the limiting oxygen concentration (LOC) is exceeded.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product is chemically stable, and no hazardous reactions should occur if stored and handled as prescribed / indicated. When thermally decomposed, may release carbon monoxide, carbon dioxide, nitrogen dioxide, and nitrogen oxide. If product is heated above decomposition temperature hazardous fumes may be released.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

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

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 5.7 mg/L (4-hour)

**EYE IRRITATION:** Moderately irritating. (Rabbit)

**SKIN IRRITATION:** Slightly irritating. (Rabbit)

**SKIN SENSITIZATION:** Not a contact sensitizer in guinea pigs following repeated skin exposure.

**CARCINOGENICITY:**

**EPA:** Not likely to be carcinogenic to humans.

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

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

**SUBCHRONIC (TARGET ORGAN) EFFECTS:** No adverse effects were observed.

**REPRODUCTIVE TOXICITY:** Animals studies showed no results in impaired fertility.

**DEVELOPMENTAL TOXICITY:** Animal studies showed no indications of developmental toxic or teratogenic effects

**GENOTOXICITY:** Various tests conducted with microorganisms and mammals found no mutagenic effect.

## 12. ECOLOGICAL INFORMATION

For aquatic invertebrates (freshwater and estuarine/marine invertebrates) exposed to prohexadione calcium on an acute toxicity exposure basis, prohexadione calcium is classified as "Practically non-toxic" on an acute toxicity exposure basis.

The following information is for the active ingredient, Prohexadione calcium:

**AQUATIC TOXICITY**

Rainbow Trout (96-hour LC<sub>50</sub>): > 94.6 mg/L

Bluegill Sunfish (96-hour LC<sub>50</sub>): > 95.6 mg/L

Sheepshead Minnow (96-hour LC<sub>50</sub>): >122 mg/L

Waterflea (48-hour EC<sub>50</sub>): >100 mg/L; (NOAEC): 12.5 mg/L

Mysid Shrimp (96-hour LC<sub>50</sub>): >125 mg/L

Algae (5-day EC<sub>50</sub>): > 1.1 mg/L; (NOAEC): 1.1 mg/L

**AVIAN TOXICITY**

Bobwhite Quail (LD<sub>50</sub>): > 2,000 mg/kg; >5,250 mg/kg (diet)

Mallard Duck (LD<sub>50</sub>): >2,000 mg/kg

**OTHER TOXICITY**

Honeybee (oral LD<sub>50</sub>): > 100 µg/bee

Honeybee (contact LC<sub>50</sub>): > 100 µg/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:**

Not regulated

**IMDG:**

Not regulated

**IATA:**

Not regulated

## 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**

**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.

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 (Acute)

**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) –**  
None

**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.

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SDS Version: 1.0

Effective Date: 11/16/2021