

MATERIAL SAFETY DATA SHEET

**IN CASE OF EMERGENCY CALL CHEMTREC 1-800-424-9300
OR NATIONAL PESTICIDE INFORMATION CENTER (NPIC) 1-800-858-7378**

1. Identification of the substance/preparation and company/undertaking:

Product name: Piccolo®

Use of product: Horticultural plant growth regulator for professional use

Supplier: Fine Americas, Inc.
1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA
Tel: 925-932-8800

2. Composition/information on ingredients:

Product: An aqueous suspension of 0.4% paclobutrazol

CAS No: 77-06-5 (active ingredient)

EPA Reg. No: 62097-11-82917

3. Hazards identification:

Toxicity Category: III (EPA)

Caution.
Keep out of reach of children. Harmful if absorbed through skin. Avoid contact with skin or clothing.

4. First aid measures:

After inhalation: Remove the person to a well ventilated area. Ensure the person is warm and comfortable. Call a poison control centre or doctor for treatment advice.

After skin contact: 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.

After eye contact: 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.

After swallowing: Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire fighting measures:

Flammability: Non-flammable

Extinguishing media: For small fires use foam, carbon dioxide, halon or dry powder extinguishers. For large fires use foam or water-fog; avoid the use of water jets. Keep fire exposed containers cool by spraying with water.

Fire fighting equipment:	Wear full protective clothing and self-contained breathing apparatus.
Special exposure hazards:	Water used for extinguishing must be retained and not allowed to contaminate water courses.
Products of combustion and decomposition:	Carbon oxides and aldehydes. May evolve hazardous fumes.

6. Accidental release measures:

Personal precautions:	Wear full protective clothing, see Section 8 “Exposure control/personal protection”.
Environmental precautions:	Prevent contaminated water entering drains. Spillages or uncontrolled discharges into water courses or sewers must be alerted to the appropriate authority.
Methods for cleaning up:	Isolate spilled material for safe disposal, using suitable absorbent media, and collect in sealable poly-lined containers. Clean contaminated area with water and dispose of waste-water safely.

7. Handling and storage:

Handling:	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE 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 cool dry conditions in original well marked containers. Keep container closed when not in use.

8. Exposure controls/personal protection:

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Protective eyewear
- Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.
- Socks and shoes

9. Physical and chemical properties:

General information:

- Appearance: Brown liquid
- Odor: None

Important health, safety and environmental information:

- pH (1% solution): 6.5
- Boiling point: 100°C
- Flash point: Does not flash
- Flammability: Non-flammable
- Explosive properties: Non-explosive
- Oxidizing properties: Not oxidizing

- Vapor pressure: No data
- Relative density (D₄²⁰): 1.02
- Solubility:
 - water solubility @ 20°C: Forms stable suspension
 - solvent solubility: Active ingredient is soluble in methanol and acetones
- Partition coefficient: No data
- Viscosity: 66 mm²/s @ 20°C

10. Stability and reactivity:

Stable in original containers for at least 2 years at ambient temperatures.

Conditions to avoid: Excessive heat; thermal decomposition will evolve toxic and irritant vapors.

Materials to avoid: Incompatible with strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of storage and use.

11. Toxicological information:

Acute toxicity:

- Oral: LD₅₀ rat (4h) > 2,000 mg/kg
- Inhalation: LC₅₀ rat > 2.55 mg/kg
- Dermal: LD₅₀ rat (24h) >2,000 mg/kg

Irritation:

- Eye: Non irritant
- Skin: Non irritant
- Respiratory tract: No data

Sensitization:

- Skin: Non-sensitizing

Carcinogenicity:

Non-carcinogenic

Mutagenicity:

Not mutagenic

Reproductive toxicity:

No data

Chronic toxicity:

No data

12. Ecological information:

Ecotoxicity (active ingredient):

- Fish: NOEC > 100 mg/l
- Daphnia: NOEC > 100 mg/l
- Algae: EC₅₀ >100 mg/l
- Bird: LC₅₀ >7900 mg/kg diet for mallard ducks (active ingredient)
- Bee: Acute oral NOEL>0.002 mg/bee; acute percutaneous>0.04 mg/bee (active ingredient)
- Beneficial spp: No data

Persistence and degradability:

Half life of active ingredient is between 0.5-1.0 years in general, <42d in calcareous clay, <140 d in coarse, sandy loam.

13. Disposal considerations:

Product disposal:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Packaging disposal:	Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. Transport information:

UN number:	Not applicable
NMFC number:	101685
Class:	065
Proper shipping name:	Plant growth inhibitor, modifier or regulator
Packaging group:	Not classified
Marine Pollutant:	Not classified
Other applicable information:	Not classified

15. Regulatory information:

Chemical Name	SARA 313	SARA 302	CERCLA Reportable Quantity (RQ)	California Proposition 65
Paclobutrazol	Not Listed	Not Listed	None	Not Applicable

16. Other information:

For further information on the product and product use refer to the product label.

This version supersedes previous version (Jun 07). Prepared by Fine Americas, Inc. on the basis of the best available data. No representation is given that the information provided is complete in all respects.