

PAC O™

EPA Registration Number: 62097-11-59807

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name : Pac O™
EPA Registration No. : 62097-11-59807
Identified uses : Ornamental plant growth regulator
Restrictions on Use : Keep out of reach of children

Details of the supplier of the safety data sheet

Company information : OHP, Inc.
 PO Box 746
 Bluffton, SC 29910-0746
Phone Number : (800) 659-6745

Emergency telephone numbers

TRANSPORTATION EMERGENCY (24 hours a day) call : Chemtrec: 1-800-424-9300
MEDICAL EMERGENCY (24 hours a day) and Product Information call : 1-800-356-4647

SDS Information

or Request : ohp.com

2. HAZARD(S) IDENTIFICATION

(This product is not classified as hazardous as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Class/Category : Not Classified
Route of Exposure : Most likely exposure routes are dermal and oral.

Hazards Not

Otherwise Classified : None known

Signal word : None

Symbol(s) : None

Hazard Statements : None assigned

Precautionary

Statements : Prevention: None assigned
 Response: None assigned
 Storage: None assigned
 Disposal: None assigned

3. COMPOSITION

This product contains the following components classified as hazardous under 29 CFR 1910.1200

CAS number:	Component:	Percent:
76738-62-0	Paclobutrazol	0.4%
9084-06-4	Dispersant	1%

The remainder of the mixture is non-hazardous and not required to be disclosed by 29 CFR 1910.1200.

4. FIRST AID MEASURES

Inhalation : 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.

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.

Skin : 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.

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

Symptoms/Effects : Acute: Not known
 Delayed: Not known

Indication of immediate medical attention and special treatment needed, if necessary : No applicable information

5. FIRE FIGHTING MEASURES

Extinguishing Media : Suitable: For small fires use foam, carbon dioxide, halon or dry powder extinguishers. For large fires use foam or water-fog. Keep fire exposed containers cool by spraying with water.

Unsuitable : Avoid the use of water jets.

Specific Hazards Arising from the Chemical

. : 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.

Protective Equipment and Precautions for Firefighters

. : Wear full protective clothing and self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Refer to Section 8 "Exposure controls/personal protection".

Methods for Containment and Clean-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.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. See also Section 13. Disposal Considerations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Users should 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.

Conditions for Safe Storage

Keep container closed when not in use. See also Section 10. Stability and Reactivity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits:

Substance	OSHA PEL		CaI/ OSHA PEL	NIOSH REL	ACGIH TLV
	ppm	Mg/m3	8-hr TWA (ST) STEL (C) Ceiling	Up to 10 hr TW (ST) STEL (C) Ceiling A	8-hr TWA (ST) STEL (C) Ceiling
No listed components	-	-	-	-	-
Appropriate Engineering Controls:	No applicable information available.				
Personal Protective Equipment:	Eyes/Face: Skin: Respiratory:	Wear suitable eye/face protection. Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse. A respirator is not normally required when handling this substance.			

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Brown liquid
- Odor: Odorless
- Odor Threshold: No data available
- pH: 6.5 (1% solution)
- Melting Point/
Freezing Point: No data available
- Boiling Point: 212°F (100°C)
- Flash Point: Does not flash (closed cup)
- Evaporation Rate: No data available
- Flammability/Limits: Not flammable
LFL: not applicable
UFL: not applicable
- Vapor Pressure: No data available
- Vapor Density: No data available
- Relative Density: 1.02
- Solubility (H2O): Forms stable suspension at 68°F
- Partition Coefficient: No data available
- Auto-Ignition Temperature: > 752°F (400°C)
- Decomposition Temperature: No data available
- Viscosity: 66 cSt at 68°F (20°C)

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

- Reactivity: No applicable information available
- Chemical Stability: Stable in original containers for at least 2 years at ambient temperatures. (40-70°F)
- Possibility of Hazardous Reactions: No applicable information available
- Conditions to Avoid: Excessive heat; thermal decomposition will evolve toxic and irritant vapors.
- Incompatible Materials: No applicable information available
- Hazardous Decomposition Products: None under normal conditions of storage and use.

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11. TOXICOLOGICAL INFORMATION

Likely Routes of

Exposure: Dermal and Oral

Symptoms: Inhalation: No data available

Eye: Non-irritant

Skin: Non-irritant

Ingestion: No data available

Acute Toxicity: Oral: LD₅₀ Rat
>2,000 mg/kg
(EPA category III)

Inhalation: LC₅₀ Rat
>2.55 mg/kg
(EPA category IV)

Dermal: LD₅₀ Rat
>2,000 mg/kg
(EPA category III)

Skin Corrosion/Irritation: Non-irritant (rabbit)
(EPA category IV)

Serious Eye Damage/Eye Irritation: Non-irritant (rabbit)
(EPA category IV)

Sensitization: Non-sensitizing
(guinea pig)

Germ Cell Mutagenicity: None (active ingredient)

Carcinogenicity: None of the components of this product are listed as carcinogens by NTP, IARC or OSHA.

Reproductive/Developmental Toxicity: No data available.

Specific Target Organ Toxicity: Single Exposure:
No data available
Repeated Exposure:
No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Species:	Exposure Time	LC50/EC50/IC50
Fish	96hr	NOEC >100 mg/l
Daphnia	48hr	NOEC >100 mg/l
Algae	72hr	EC50 >100 mg/L
Bird (Mallard Duck)	n/a	LC50 >7,900 mg/kg
Bee	n/a	NOEL >0.002 mg (oral) NOEL >0.04 mg (percutaneous)

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.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

Disposal Instructions: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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14. TRANSPORT INFORMATION

UN Proper Shipping Name: Not applicable
Hazard Class: Not applicable
UN Number: Not applicable
Packaging Group: Not applicable
Marine Pollutant: Not applicable
NMFC number/class: 101685/065 Plant growth inhibitor, modifier or regulator, NOIBN

15. REGULATORY INFORMATION:

SARA: No reportable components
CERCLA: No reportable components
TSCA: All components of this product are either listed or are exempt on the TSCA inventory. The following components of this product are subject to the reporting requirements of Section 12(b) of TSCA: None
Component Analysis – State: The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
No component listed							
California Prop 65:	No listings						

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 signal word: CAUTION
 Classifications under 40 CFR 156.63 are given in sections 9 and 11 where applicable

Precautionary Statements: HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 CAUTION. Harmful if absorbed through skin. Avoid contact with skin or clothing.
Pictograms/Symbols: None

16. OTHER INFORMATION:

OHP, Inc. warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, OHP, Inc. makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of OHP, Inc. or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of OHP, Inc. or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

- To the extent consistent with applicable law:
- 1) OHP, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and
 - 2) OHP Inc.'s liability under this label shall be limited to the amount of the purchase price or, at the election of OHP, Inc., the free replacement of the Product.

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