



MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY (24 hours a day)
CHEMTREC:(800)-424-9300

EMERGENCY (24 hours a day) AND PRODUCT INFORMATION
OHP, Inc.:(800)-356-4647

Paczol® Ornamental Growth Regulator

EPA Registration Number: 400-515-59807

I. PRODUCT AND COMPANY IDENTIFICATION

Product name: PACZOL®
Chemical name: Paclobutrazol
Use of substance/preparation ..: Plant Growth Regulator

II HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUTION!
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.
NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

III. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT
Paclobutrazol	76738-62-0	0.4

Ingredients not precisely identified are non-hazardous and/or proprietary.

IV. FIRST AID MEASURES

Swallowing: 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Eye contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

V. FIRE-FIGHTING MEASURES

Flash point: > 199 °F
> 93.3 °C
Flammable limits
Lower limit: Not available
Upper limit: Not available
Autoignition temperature: Not available

NFPA CLASSIFICATION

Health	Flammability	Reactivity	Special provisions
1	1	0	

Hazardous combustion products

Burning can produce the following combustion products ...: Oxides of nitrogen.
Oxides of carbon.
Ammonia.
Halogens and halogen oxides.

Special fire fighting

procedures: Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective

equipment for firefighters ..: Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable:
Large fires: alcohol-type foam or universal-type foams
Small fires: CO2
Dry chemical
Unsuitable:: Water jets

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective equipment. Avoid contact with eyes and skin.
Environmental precautions ...: Prevent from entering sewer system, surface water or soil.

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Methods for cleaning up

Observe government regulations.

Small spills: Absorb on inert material such as sand, earth, vermiculite.

Collect for disposal.

Large spills: Dike to contain spill.

Pump excess material into suitable container (metal drums, metal tank, or such).

VII. HANDLING AND STORAGE

HANDLING

Handling precautions: Do not get in eyes., Avoid prolonged or repeated contact with skin. Avoid breathing vapor. Use with adequate ventilation. Wash thoroughly after handling.

Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE

Storage requirements: Store in a cool, dry place.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment., The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation., The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

Hand protection /

Protective gloves: Chemical resistant protective gloves

Eye protection: Safety glasses with side shields.

Skin protection: Wear protective clothing, such as long sleeves to minimize skin contact.

Other protective

equipment: Eye bath, Safety shower

ENGINEERING CONTROLS

Ventilation: General (mechanical) room ventilation is expected to be satisfactory., Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state: Liquid

Color: Greyish

Odor: Musty

Odor threshold: Not available

OTHER PROPERTIES

Boiling point: > 100 °C; 212 °F

Melting point: 165 - 166 °C

pH: 7.9; (5 % H₂O)

Density

vapor pressure: 1.05 g/cm³

Solubility in water: Dispersible

Solubility in

organic solvents: No data available.

Partitioning coefficient: Not available

Flash point: > 199 °F; > 93.3 °C

Method: Setaflash closed cup ASTM D 3828

Autoignition temperature Not available

Upper explosion limits Not available

Lower explosion limits Not available

X. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Incompatible materials: Oxidizing agents.

Hazardous combustion products:

Burning can produce the following

combustion products: Oxides of nitrogen.
Oxides of carbon.
Ammonia
Halogens and halogen oxides.

XI. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat

Result: 5,346 g/kg

SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rat

Result: > 2,000 mg/kg

INHALATION

Test results

Acute toxicity: LD50 - Rat

Result: 369 mg/l

Exposure time: 4 h

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SKIN CONTACT

Test results
Skin irritation:
Species: Rabbit
Result: Not irritating

EYE CONTACT

Test results
Eye irritation:
Species: Rabbit
Result: No irritation

SENSITIZATION

Test results
Species: Guinea pigs
Result: Negative

XII. ECOLOGICAL INFORMATION

This product is not tested.
The following information is based on analogy with a similar material:

Component ecotoxicology

Paclobutrazol

Acute toxicity fish: LC50 - Bluegill (*Lepomis macrochirus*)
Result: 23.6 mg/l
Exposure time: 96 h

Component ecotoxicology

Paclobutrazol

Acute toxicity to aquatic invertebrates: EC50 - Water flea (*Daphnia magna*)
Result: 33.2 mg/l
Exposure time: 48 h

XIII. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

XIV. TRANSPORT INFORMATION

DOT Classification: This product is not regulated by DOT.
IMDG Classification: This product is not regulated by DOT.
ICAO Classification: This product is not regulated by DOT.

XV. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Paclobutrazol	76738-62-0	

Inerts: -

EPA Hazard Categories

(SARA 311, 312): Immediate Health Hazard

California Proposition 65

**** NONE ****

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XVI. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

HMIS RATING

Health	Flammability	Reactivity	PPI
1	1	0	X

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN OHP, INC. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF OHP, INC., IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.

Paczol is a registered trademark of Chemtura Corporation.

STP: Standard temperature and pressure

W/W: Weight/Weight

0 (HMIS)

1 (HMIS): Slight hazard

2 (HMIS): Moderate hazard

3 (HMIS): Serious hazard

4 (HMIS): Severe hazard

X (HMIS): Personal protection rating to be supplied by user depending on use conditions

