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MATERIAL SAFETY DATA SHEET

OHP, INC.
P.O. BOX 230, MAINLAND, PA 19451
800-659-6745

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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

Veranda™ O

EPA Registration Number: 66330-56-59807

I. PRODUCT IDENTIFICATION

PRODUCT NAME: VERANDA™ O

PRODUCT USE: FUNGICIDE

II. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient(s) / Hazardous Inert Ingredient(s)	CAS #	Exposure Limits	% Weight	% Volume
5-(2-amino-5-O-carbamoyl-2-deoxy-L-xylonamid)-5-deoxyl-1-(1,2,3,4-tetrahydro-5-carboxin-2,4-dioxypyrimidinyl)-b-D-allofuran uronic acid zinc salt	146659-78-1	TWA^a OSHA PEL ^b : None ACGIH® TLV ^c : None NIOSH REL ^d : None	11.3	NDA

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

*Source: Guide to Occupational Exposure Values 2003, published by ACGIH®

^a**TWA**: Time-weighted average exposure concentration for a conventional 8-hour (TLV®, PEL) or up to a 10-hour (REL) workday and a 40-hour workweek.

^b**OSHA PEL**: U.S. Occupational Safety and Health Administration Permissible Exposure Limits.

^c**ACGIH® TLV®**: American Conference of Governmental Industrial Hygienists Threshold Limit Values.

^d**NIOSH REL**: U.S. National Institute for Occupational Safety and Health Recommended Exposure Limits.

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION:

- CAUSES MODERATE EYE IRRITATION
- AVOID CONTACT WITH SKIN/EYES/CLOTHING
- AVOID BREATHING DUST OR SPRAY MIST
- KEEP OUT OF REACH OF CHILDREN

Acute Health Hazards

Eye: May cause moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Skin: May cause slight skin irritation. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Prolonged exposure may cause skin sensitization.

Ingestion: Not expected to be an ingestion hazard under normal handling procedures.

Inhalation: Not expected to be an inhalation hazard under normal handling procedures.

Chronic Health Hazards

(Including Cancer): No evidence of carcinogenicity or other treatment-related effects following chronic exposure in laboratory animals.

Reproductive and

developmental Toxicity ...: No evidence of reproductive or developmental toxicity.

IV. FIRST AID MEASURES

Eyes: Hold eye open and rinse slowly and gently with water for at 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

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control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 9-1-1 or an ambulance, then give artificial respiration. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor 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 by mouth to an unconscious person.

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.

V. FIRE FIGHTING MEASURES

Flammable Limits in Air (% by volume):

Upper: NDA
Lower: NDA

Flash Point: NDA
Method Used: NDA

Autoignition Temperature: NDA

LEL/UEL: NDA

NFPA Hazard Classification:

Health: 1
Flammability: 0
Reactivity: 0
Other: None

Extinguishing Media: Water spray or dry chemicals

Special Fire

Fighting Procedures: NDA

Unusual Fire/

Explosion Hazards: NDA

Hazardous Combustion

Products: NDA

VI. ACCIDENTAL RELEASE MEASURES

EMERGENCY PHONE NUMBERS

Exposure Calls (OHP, Inc.) 1-800-356-4647

Spill Calls (CHEMTREC): 1-800-424-9300

Sweep up spilled material and place in covered, dry container. Wash spill response materials thoroughly before reuse.

VII. HANDLING AND STORAGE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire label. Use strictly in accordance with label precautionary statements and directions. Read and observe all precautions on product label.

Handle and open container with care. Avoid inhaling this material. Avoid eye and skin contact with this material. Wash contaminated clothes thoroughly before reuse. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep container closed or equipped with a local air exhauster. Handle the container carefully. Do not drop or drag the container. Avoid impacts to the container. Store container in dry conditions without direct sunlight.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear suitable eye protection.

Respiratory/Ventilation

Requirements: Dust-proof mask.

Skin Protection: Wear appropriate protective clothing and gloves to prevent skin contact.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dusty sable brown

Odor: Clay-like, earth

Physical State: Small granule

pH: NDA

Boiling Point: NA

Melting Point: NDA

Freezing Point: NA

Vapor Pressure: NA

Vapor Density: NA

Bulk Density: Approximately 40 lbs/ft³

Specific Gravity: NDA

Evaporation Rate: NA

Explosibility: No explosive properties

Oxidation/Reduction: No significant temperature increases (greater than 5°C), evolution of gases, noxious fumes, splattering, or evolution of flame were seen when the test substance was placed in contact with water, zinc powder or monoammonium phosphate for evolution of bubbles were seen when the test substance was placed in contact with household bleach for 24 hours.

Solubility: NDA

Percent Solids by Weight: NA

Percent Volatile: No explosive properties

Volatile Organic

Compounds (VOC): NDA

Molecular Weight: NDA

Viscosity: NA

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X. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur

Flash Point: NDA

Flammable Point: NDA

Auto Ignition: NDA

Incompatibility With Other Materials: NDA

Hazardous Decomposition Products: NDA

XI. TOXICOLOGICAL INFORMATION

Acute:

Eye Irritation: Moderate irritation (Rabbits)

Skin Irritation: Negative (Rabbits)

Skin Sensitization: Negative (Guinea pigs)

Dermal Toxicity: LD50 (male and female rats) > 2,000 mg/kg

Oral Toxicity: LD50 (male rat/male mouse) = 4,916 mg/kg
LD50 (female rat) = 4,404 mg/kg
LD50 (female mouse) = 3,946 mg/kg

Inhalation Toxicity: 4-hour LC50 (aerosol) = > 2.41 mg/L

Subchronic Toxicity: No treatment-related effects were observed following chronic exposure in laboratory animals to polyoxin D technical.

Chronic/Carcinogenicity: No evidence of carcinogenicity or other treatment-related effects following chronic exposure in laboratory animals.

Teratology/Developmental Toxicity: No evidence of developmental toxicity.

Mutagenicity: NDA

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution:Product decomposes

Aquatic Organism Toxicity (based upon technical material):
Rainbow trout (*Oncorhynchus mykiss*)
96-hr LC50 = 5.1 ppm
Daphnid (*Daphnia magna*) EC50 = 1.4 ppm

Avian Toxicity (based upon technical material):

Mallard duck oral LD50 > 2150 ppm
Mallard duck dietary LC50 > 5000 ppm

XIII. DISPOSAL CONSIDERATIONS

End users must dispose of any unused product as per the label recommendations and in accordance with all applicable laws and regulations. Check governmental regulations and local authorities for approved disposal of this material.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: Pesticide, non-regulated

Technical Shipping Name: NA

Packing Group: NA

D.O.T. Hazard Class: NA

U.N./N.A. Number: NA

Product RQ (lbs): NA

D.O.T. Label: NA

D.O.T. Placard: NA

Marine Pollutant: NA

IMO:
IMO Label: NA
IMO Placard: NA

XV. REGULATORY INFORMATION

U.S Federal Regulations

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): All pesticides are governed under FIFRA. Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

CERCLA (Comprehensive Response Compensation, and Liability Act): NA

EPCRA (Emergency Planning and Community Right-to-Know Act) Section 313: None

OSHA (Occupational Safety and Health Administration): NA

RCRA (Resource Conservation and Recovery Act): None

SARA Title III (SUPERFUND Amendments and Reauthorization Act):

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Section 302 (EHS) TPQ: NONE

Section 304 (EHS) RQ: NONE

Section 311/312 CATEGORIES

1. Immediate (Acute) Health Effects; **YES**
2. Delayed (Chronic) Health Effect; **NO**
3. Fire Hazard; **NO**
4. Sudden Release of Pressure Hazard; **NDA**
5. Reactivity Hazard; **NDA**

TSCA (Toxic Substance Control Act): This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

State Regulations: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

XVI. OTHER INFORMATION

Prepared by: Ashley R. Brown

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The information in this MSDS is based on data available to us as of the issue date given herein, and believed to be correct. Contact OHP, Inc. at 1-800-356-4647 to determine if additional data and information have become available since the issue date.

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Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

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