

MATERIAL SAFETY DATA SHEET

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Contact:

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SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: TAVANO 5%SC Fungicide

(Polyoxin D Zinc Salt, 5% Suspension Concentration product)

JAPAN MAFF REGISTRATION

NUMBER: N/A

EPA REGISTRATION NUMBER 68173-4-70051

SYNONYM(S): N/A

COMPANY: Certis U.S.A. L.L.C.

9145 Guilford Road, Suite 175, Columbia, MD 21046 USA

EMERGENCY TELEPHONE

NUMBER:

1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW CAUSES MILD DERMAL SESNITIZATION.

AVOID CONTACT WITH SKIN/EYES/CLOTHING.

KEEP OUT OF REACH OF CHILDREN.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient: 5%

Common chemical name: Polyoxin D zinc salt

IUPAC name: 5-(2-amino-5-*0*-carbamoyl-2-deoxy-L-xylonamido)-1-(5-

carboxy-1,2,3,4-tetrahydro-2,4-dioxopyrimidin-1-yl)-1,5-

dideoxy-ß-D-allofuranuronic acid zinc salt b-D-Allofuranuronic acid,5-[[2-amino-5-O-

(aminocarbonyl)-2-deoxy-L-xylonoyl]amino]-1-(5-

carboxy-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-1,5-

dideoxy-,zinc salt (1:1) (9CI)

CAS Registration Number: 146659-78-1

Molecular formula: $C_{17}H_{23}N_5O_{14}Zn$ (M.W. 586.76)

Inert ingredients: Other ingredients 95%

SECTION 4: FIRST AID MEASURES

CAS Name:

If on skin or clothing:

• 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.

If in eye: ● Hold eye open and rinse slowly and gently with water for 15-20

minutes.

 Remove contact lenses, if present, after the first minutes, the continue rinsing eye.

• Call a poison control center or doctor for treatment advice.



If inhaled:

SECTION 4: FIRST AID MEASURES (Continued)

If swallowed: • Call 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 so by the poison control center

or doctor.

• Do not give anything by mouth to an unconscious person.

Move person to fresh air.

• If person is not breathing, call 911 or an ambulance, then give

artificial respiration.

• Call a poison control center or doctor for further advice.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Limits in Air (5 by volume):

Upper:
Lower:
No data available

Extinguishing Media: Water spray or dry chemicals

Special Fire Fighting

Procedures: No data available

Hazardous Combustion

Products: No data available

SECTION 6: ACCIDENTIAL RELEASE MEASURES

Measures for human: Inside a building, ventilate well until clean-up is completed. During

clean-up, workers should wear protective clothes to prevent skin

contact.

Measures for environment: Avoid release of product into rivers or lakes.

Method for removal: Collect the spilled product in containers and close tightly. Wash the

affected area with plenty of water.

SECTION 7: HANDLING AND STORAGE

Handling: Handle and open container with care.

Protective Gloves: Rubber gloves recommended.

Eye Protection: Safety glasses recommended.

Personal Hygiene: Wash thoroughly after handling.

Pesticide storage: Store in dry place away from food or feed. Keep away from children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Eye protection recommended.

Respiration/Ventilation

Requirements: None

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

contact.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:Dark Brown LiquidPhysical state:Viscous liquid suspensionOdor:Similar to Vegetable oil

pH: 7.01 at 25°C (1% agueous mixture)

Boiling Point:

Vapor Pressure:

No data available

No data available

1.05 (22°C)

No data available

No data available

No data available

No explosive properties

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions

Hazardous Polymerization:

Flashpoint:

Flammable Point:

Auto ignition:

Incompatibility with Other

Will not occur.

No data available

No data available

No data available

Materials:

Hazardous Decomposition

Products:

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀: >5,000 mg/kg (rat) (EPA Toxicity Category IV; practically non-toxic)

Acute Dermal LD₅₀: >5,050 mg/ kg (rat) (EPA Toxicity Category IV; practically non-toxic)

Inhalation LC₅₀: >2.20 mg/L (rat) (EPA Toxicity Category IV; practically non-toxic)

Eye Irritation: Non-irritating (EPA Toxicity Category IV)

Dermal Irritation: No irritation observed 48 hours after contact. (EPA Toxicity Category

IV)

Dermal Sensitization: A mild sensitizer in guinea pig.

SECTION 12: ECOLOGICAL INFORMATION

Data for the active ingredient:

Fish: Acute LC_{50} (96-hr) >100 mg/L (practically non-toxic) **Daphnia magna (water flea):** Acute EC_{50} (48-hr) = 4.08 mg/L (moderately toxic)

Algae: Growth Inhibition

 EbC_{50} (0-72-hr) = 6.47 mg/L (moderately toxic) ErC_{50} (0-72-hr) = 7.01

mg/L

Honeybee: Acute oral LD_{50} (96-hr) = 28.774 µg/bee (practically nontoxic) Groundwater: No contamination is anticipated. Active ingredient readily

hydrolyzes.

Bioaccumulation: No data available on bioaccumulation

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of waste and residues in accordance with local authority

requirements. Check governmental regulation and local authorities for approved disposal of this material. Wastes resulting from the use of this product may be disposed of on site or at an approved waste

disposal facility.



SECTION 14: TRANSPORT INFORMATION

UN-Number: Not regulated

SECTION15: REGULATORY INFORMATION

Agricultural Chemicals Regulation Law (Japan), Japanese Chemicals Substances Control Act United States: Federal Insecticide Fungicide Rodenticide Act (FIFRA), Federal Food Drug and Cosmetic Act (FFDCA). Food tolerance exemptions: 40 CFR § 180.1285.

SECTION16: OTHER INFORMATION

None