

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : PH-D<sup>®</sup> WDG FUNGICIDE  
 Other means of identification : EPA Reg. No. 66330-56

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fungicide

#### 1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America LLC  
 15401 Weston Parkway, Suite 150  
 Cary, NC 27513 - USA

#### 1.4. Emergency telephone number

Emergency number : Exposure Calls (PROSAR): +1-866-303-6952 or +1-651-603-3432 (international)  
 Spill Calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Eye Irrit. 2A H319  
 Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
 Hazard statements (GHS-US) : H319 - Causes serious eye irritation  
 Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Polyoxin D Zinc Salt (Main constituent)	(CAS No) 146659-78-1	10 – 15	Eye Irrit. 2A, H319

Exact concentrations withheld as trade secret.  
 Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen if necessary. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Wash with plenty of soap and water.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Do NOT induce vomiting. Sip water. Rinse mouth. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry chemical.
Unsuitable extinguishing media	: None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: No specific fire or explosion hazard.
Reactivity	: No dangerous reactions known.

### 5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust. Avoid contact with skin and eyes.

#### 6.1.1. For non-emergency personnel

Protective equipment	: Chemical goggles or safety glasses. Dust impervious gloves.
Emergency procedures	: Stop leak, if possible without risk.

#### 6.1.2. For emergency responders

Protective equipment	: Chemical goggles or safety glasses. Dust impervious gloves.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Prevent dispersion.

### 6.3. Methods and material for containment and cleaning up

For containment	: Stop the flow of material, if this is without risk.
Methods for cleaning up	: Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin, eyes and clothing.
Hygiene measures	: Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies.
Incompatible products	: None known.
Storage area	: Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Fungicide.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

PH-D <sup>®</sup> WDG FUNGICIDE	
ACGIH	Not applicable
OSHA	Not applicable
Polyoxin D Zinc Salt (146659-78-1)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls	: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only outdoors or in a well-ventilated area.
Hand protection	: Wear dust impervious gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Long sleeved protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use self-contained breathing apparatus.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder
Colour	: Gray brown
Odour	: Characteristic
Odour threshold	: No data available
pH	: 5.5 - 7.5
Melting point	: > 240 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Density	: 40 lbs/ft <sup>3</sup> approx
Relative vapour density at 20 °C	: No data available
Solubility	: Water: <= 0.1 g/l Acetone: <= 0.01 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

PH-D <sup>®</sup> WDG FUNGICIDE	
LD50 oral rat	4404 mg/kg female
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.41 mg/l/4h
ATE US (oral)	4404.000 mg/kg bodyweight

Skin corrosion/irritation : Not classified

(Non-irritating to skin in rabbits.)

Serious eye damage/irritation : Causes serious eye irritation.

(Irritating to rabbits on ocular application)

Respiratory or skin sensitisation : Not classified

(No sensitizing reaction was observed for guinea pigs)

Germ cell mutagenicity : Not classified

(lack of data)

Carcinogenicity : Not classified

No evidence of carcinogenicity or other treatment related effects following chronic exposure in laboratory animals

Reproductive toxicity : Not classified

No evidence of developmental toxicity

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after eye contact : Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Polyoxin D Zinc Salt (146659-78-1)	
LC50 fish 1	5.1 mg/kg 96 h Rainbow trout
EC50 Daphnia 1	1.4 mg/l

### 12.2. Persistence and degradability

Polyoxin D Zinc Salt (146659-78-1)	
Persistence and degradability	Not expected to persist.
Biodegradation	Expected to be biodegradable.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of in authorized waste collection plant. Do not dispose in household garbage.  
Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
Not considered a dangerous good for transport regulations

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Polyoxin D Zinc Salt (146659-78-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### Polyoxin D Zinc Salt (146659-78-1)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

### EU-Regulations

#### Polyoxin D Zinc Salt (146659-78-1)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319

Full text of H-statements: see section 16

### National regulations

#### Polyoxin D Zinc Salt (146659-78-1)

Not listed on the Canadian Non-Domestic Substances List (NDSL).

### 15.3. US State regulations

No additional information available

### 15.4. US EPA – FIFRA Regulations

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal word (FIFRA) : Caution.  
Hazard statements (FIFRA) : Harmful if absorbed through the skin, or swallowed or inhaled. Causes moderate eye irritation.  
Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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Environmental hazards : This chemical is moderately toxic to aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not allow runoff into lakes, streams, ponds, or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Granules exposed on soil surface may be hazardous to fish and aquatic invertebrates. Collect granules spilled during loading. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

### SECTION 16: Other information

Indication of changes : Original Document.

Data sources : ACGIH (American Conference of Government Industrial Hygienists).  
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.  
Kriester Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978.  
OSHA 29CFR 1910.1200 Hazard Communication Standard.  
TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Abbreviations and acronyms : ATE: Acute Toxicity Estimate.  
CAS (Chemical Abstracts Service) number.  
CLP: Classification, Labelling, Packaging.  
EC50: Environmental Concentration associated with a response by 50% of the test population.  
LD50: Lethal Dose for 50% of the test population.  
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).  
NOEC: No Observable Effect Concentration.  
OSHA: Occupational Safety & Health Administration.  
TSCA: Toxic Substances Control Act.

Other information : None.

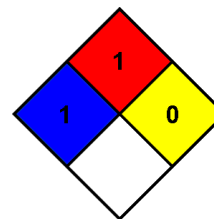
Full text of H-statements:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
H319	Causes serious eye irritation

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



SDS US (GHS HazCom 2012)

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*