



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Affirm™ WDG  
**EPA Reg. No.:** 68173-3-1001  
**Product Type:** Fungicide

**Company Name:** Nufarm Americas, Inc.  
 11901 S. Austin Avenue  
 Alsip, IL 60803  
 1-800-345-3330

**Telephone Numbers:** For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,  
 Call CHEMTREC Day or Night: 1-800-424-9300  
 For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. HAZARDS IDENTIFICATION

**For EPA FIFRA-Specific Information see Section 15**

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

Classification (1999/45/EEC) Not classified.  
 The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008  
 No pictogram required.

### 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Non-Hazardous components		80 – 100%
CAS No.:	EC No.:	
Classification (EC1272/2008)		Classification (67/548/EEC)

Not classified.

Not classified.

The active ingredient: polyoxin D zinc salt

10 – 30%

The nominal concentration of the AI: 11.3%

CAS No. 146659-78-1

EC No.:

CAS No. for the Polyoxin D zinc salt: 146659-78-1 (1:1 zinc salt)

Classification (EC 1272/2008)

Classification (67/578/EEC)

Acute Tox. 4 – H332

Xn;R20.

Eye Irrit. 2B – H320

Xi;R36.

Skin Sens. 1 – H317

R43.

Aquatic Acute 2 – H401

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 4. FIRST AID MEASURES

##### **4.1 Description of first aid measures**

###### **Inhalation:**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Consult a physician for specific advice.

###### **Ingestion**

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not induce vomiting. Get medical attention if any discomfort continues.

###### **Skin contact:**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Continue to rinse for at least 15 minutes and seek medical attention.

###### **Eye contact:**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

###### **General information**

No specific symptoms noted.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

#### 5. FIRE FIGHTING MEASURES

##### **5.1 Extinguishing media**

###### **Extinguishing media**

Fire can be extinguished using: Water spray. Dry chemicals.

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

Hazardous combustion products Not known.

##### **5.3 Advice for firefighters**

###### **Special Fire Fighting Procedures**

Keep up-wind to avoid fumes. Keep run-off water out of sewers and water sources. Dike for water control. Protective equipment for fire-fighters

Wear full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

### **6.2 Environmental precautions**

Do not discharge onto the ground or into water courses.

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

Stop leak if possible without risk. Shovel into dry containers. Cover and move the containers. Flush the area with water.

### **6.4 Reference to other sections**

For waste disposal, see section 13.

## 7. HANDLING AND STORAGE

### **7.1 Precautions for safe handling**

Do not use in confined spaces without adequate ventilation and/or respirator. Provide good ventilation. Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

### **7.3 Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **8.1 Control parameters**

Ingredient Comments: No exposure limits noted for ingredient(s).

### **8.2 Exposure controls**

Protective equipment



#### **Engineering measures:**

Provide adequate general and local exhaust ventilation.

#### **Respiratory equipment:**

Dust mask/respirator.

#### **Hand protection:**

Use protective gloves.

#### **Eye protection:**

Wear goggles/face shield.

#### **Other Protection:**

Wear appropriate clothing to prevent any possibility of skin contact.

#### **Hygiene measures:**

Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance: Powder, dust  
Colour: Dark brown  
Odour: Earth  
Explosive properties: Not explosive.

**9.2. Other information**

Not available.

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No specific reactivity hazards associated with this product.

**10.2 Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3 Possibility of hazardous reactions**

Not known.  
Hazardous Polymerisation  
Will not polymerise.

**10.4 Conditions to avoid**

Not known.

**10.5 Incompatible materials**

Materials To Avoid:  
No incompatible groups noted.

**10.6 Hazardous decomposition products**

Not known.

**11. TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50 4916 mg/kg (oral rat)  
Toxic Dose 2 - LD 50 4404 mg/kg (oral rat)

**Acute toxicity:**

Acute Toxicity (Dermal LD50)  
> 2000 mg/kg Rat

**Skin Corrosion/Irritation: Rabbit**

Not irritating.

**Serious eye damage/irritation:**

Rabbit Moderately Irritating.

**Respiratory or skin sensitisation:**

Skin sensitisation  
Buehler test: Guinea Pig Not Sensitising.

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**12.1. Toxicity**

Acute Toxicity - Fish

LC50 96 hours 90 Cyprinus carpio (Common carp) ppm

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 6.59 mg/l Daphnia magna Acute Toxicity - Aquatic Plants

EC50 1.31 mg/l Pseudokirchneriella subcapitata

**12.2. Persistence and degradability**

Degradability

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

**12.4. Mobility in soil**

Mobility: No data

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

Not known.

**13. DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**14. TRANSPORTATION INFORMATION**

General:	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes:	Not regulated.
Rail Transport Notes:	Not regulated.
Sea Transport Notes:	Not regulated.
Air Transport Notes:	Not regulated.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**15. REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Statutory Instruments:**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**Approved Code Of Practice:**

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes:**

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

**EU Legislation**

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

(EC) No 1272/2008 (CLP).

(EU) No 453/2010 (REACH ANNEX II update).

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**16. OTHER INFORMATION**

**Risk Phrases in Full:** NC Not classified. , R20 Harmful by inhalation. , R36 Irritating to eyes. , R43 May cause sensitisation by skin contact.

**Hazard Statements In Full:** H317 May cause an allergic skin reaction. , H320 Causes eye irritation. , H332 Harmful if inhaled. , H401 Toxic to aquatic life.

## **SAFETY DATA SHEET**

**Affirm™ WDG**

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Nufarm Americas Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm Americas Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

**Date of Issue:** September 25, 2015

**Supersedes:** NEW