

# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Trade name ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE

Product code (UVP) 84961019

**SDS Number** 102000027133

**EPA Registration No.** 264-935

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

**Use** Fungicide, Seed treatment

**Restrictions on use**See product label for restrictions.

Information on supplier

**Supplier** Bayer CropScience LP

800 North Lindbergh Blvd. St. Louis, MO 63167

USA

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 

1-800-334-7577

Product Information Telephone Number

1-866-99BAYER (1-866-992-2937)

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation: Category 2

Acute toxicity(Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

**Hazard statements** 



# ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

Causes serious eye irritation.

Harmful if inhaled.

### **Precautionary statements**

Wash thoroughly after handling. Avoid breathing dust, mist, spray.

Use only outdoors or in a well-ventilated area.

IF IN EYES: 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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

### **Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified. No health hazards not otherwise classified.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name

CAS-No. Concentration % by weight
57837-19-1

28.35

### **SECTION 4: FIRST AID MEASURES**

### Description of first aid measures

**General advice** When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

**Inhalation** Move to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth if possible.

Call a physician or poison control center immediately.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Take

off contaminated clothing and shoes immediately. Call a physician or

poison control center immediately.

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center

immediately.

**Ingestion** Call a physician or poison control center immediately. Rinse out mouth

and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim

unattended.

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

**Symptoms** To date no symptoms are known.



# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.

### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** High volume water jet

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and

full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

# Specific hazards from the substance or mixture which can increase the fire

Flash point No data available
Auto-ignition temperature No data available
Lower explosion limit No data available
Upper explosion limit No data available
Explosivity No data available



# ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE

 Version 6.0 / USA
 Revision Date: 01/02/2025

 102000027133
 Print Date: 01/04/2025

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

and open container in a manner as to prevent spillage.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before

eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean

clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight.

Protect from freezing.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

No known occupational limit values.



# ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

### **Exposure controls**

### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment

based on actual or potential airborne concentrations and in

accordance with the appropriate regulatory standards and/or industry

recommendations.

Hand protection Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

**Eye protection** Tightly fitting safety goggles

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures Follow manufacturer's instructions for cleaning/maintaining PPE. If

no such instructions for washables, use detergent and warm/tepid

water.

Keep and wash PPE separately from other laundry.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Form Liquid

**Colour** light brown

**Odour** musty

Odour Threshold No data available

**pH** 5.0 - 8.0 (100 %) (23 °C)

Melting point/ rangeNo data availableBoiling PointNo data availableFlash pointNo data availableFlammabilityNo data availableAuto-ignition temperatureNo data availableThermal decompositionNo data available

Minimum ignition energy No data available
Self-accelarating No data available

decomposition temperature

decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNo data available



# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

Vapour pressureNo data availableEvaporation rateNo data availableRelative vapour densityNo data availableRelative densityNo data available

**Density** ca.  $1.10 \text{ g/cm}^3 (20 \text{ °C})$ 

Water solubility dispersible

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic 250 - 600 mPa.s (25 °C)

160 - 300 mPa.s (20 °C) Velocity gradient 20 /s 75 - 115 mPa.s (20 °C) Velocity gradient 100 /s

Viscosity, kinematic

Oxidizing properties

No data available

Explosivity

No data available

**Other information** Further safety related physical-chemical data are not known.

### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Stable under normal conditions.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

**Conditions to avoid** Extremes of temperature and direct sunlight.

Incompatible materials Strong acids, Strong bases, Oxidizing agents

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Skin contact, Eye contact, Ingestion, Inhalation

**Immediate Effects** 



# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

**Eye** May cause temporary eye irritation.

Skin May be harmful in contact with skin. Causes skin irritation.

IngestionInhalationMay be harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,900 mg/kg
Acute inhalation toxicity LC50 (Rat) > 2.67 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Acute dermal toxicity LD50 (Rabbit) > 2,000 mg/kg

**Skin corrosion/irritation** No skin irritation (Rabbit)

Serious eye damage/eye

irritation

Moderate eye irritation. (Rabbit)

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)

### Assessment STOT Specific target organ toxicity - single exposure

Metalaxyl: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity - repeated exposure

Metalaxyl did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Metalaxyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Metalaxyl was not carcinogenic in lifetime feeding studies in rats and mice.

### **ACGIH**

None.

### NTP

None.

# IARC

None.

### Assessment toxicity to reproduction

Metalaxyl did not cause reproductive toxicity in a multi-generation study in rats.

### Assessment developmental toxicity

Metalaxyl did not cause developmental toxicity in rats and rabbits.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Further information**



# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

No further toxicological information is available.

### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Lepomis macrochirus (Bluegill sunfish)) > 100 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

Toxicity to aquatic invertebrates

LC50 (Daphnia (water flea)) > 28 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient metalaxyl.

EC50 (Mysidopsis bahia (mysid shrimp)) 25 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

EC50 (Oyster) 4.6 mg/l Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

Toxicity to aquatic plants IC50 (algae) 33 mg/l

Exposure time: 5 Days

The value mentioned relates to the active ingredient metalaxyl.

**Biodegradability** Metalaxyl:

Not rapidly biodegradable

**Koc** Metalaxyl: Koc: 163

**Bioaccumulation** Metalaxyl: Bioconcentration factor (BCF) < 7

Does not bioaccumulate.

Mobility in soil Metalaxyl: Moderately mobile in soils

Results of PBT and vPvB assessment

**PBT and vPvB assessment** Metalaxyl: This substance is not considered to be persistent.

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

Additional ecological

information

No other effects to be mentioned.

**Environmental precautions** Do not allow to get into surface water, drains and ground water.

Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.



# ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging Consult state and local regulations regarding the proper disposal of

container.

Follow advice on product label and/or leaflet.

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal, State and local laws and

are the user's responsibility. RCRA classification may apply.

### **SECTION 14: TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN

POISON !!!!-KEEP FROM FREEZING-!!!!

### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 264-935

**US Federal Regulations** 

**TSCA list** 

 Water
 7732-18-5

 White mineral oil
 8042-47-5

 Urea
 57-13-6

 1,2-Propanediol
 57-55-6

 Kaolin
 1332-58-7

 Polyethylene-polypropylene copolymer
 9003-11-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

### **US States Regulatory Reporting**

### CA Prop65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



10/11

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Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

**US State Right-To-Know Ingredients** 

 Urea
 57-13-6
 MN

 1,2-Propanediol
 57-55-6
 MN, RI

 Kaolin
 1332-58-7
 MN, RI

Environmental CERCLA None.

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

#### **EPA/FIFRA Information:**

This chemical is a pesticide product regulated by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Warning!

**Hazard statements:** Causes skin irritation.

Harmful if swallowed or absorbed through skin.

Causes moderate eye irritation.

### **SECTION 16: OTHER INFORMATION**

### Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens
OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation



# **ALLEGIANCE®-FL SEED TREATMENT FUNGICIDE**

Version 6.0 / USA Revision Date: 01/02/2025 102000027133 Print Date: 01/04/2025

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Fourth Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard,

\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 11: Toxicological Information. Reviewed and updated for general editorial purposes.

**Revision Date: 01/02/2025** 

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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