

## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

### 1. PRODUCT IDENTIFICATION

Product identifier on label: VIBRANCE® MAXX

Product No.: A20927A Use: Fungicide

Manufacturer: Syngenta Crop Protection, LLC

Post Office Box 18300 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

#### 2. HAZARDS IDENTIFICATION

Classifications: Eye Damage/Irritation: Category 1

Signal Word (OSHA): Danger

Hazard Statements: Causes serious eye damage

Hazard Symbols:



Precautionary Statements: Wear eye protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a poison center, doctor or Syngenta.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
1,2-Propanediol	Propylene Glycol	57-55-6	<20.0%
Other ingredients	Other ingredients	Trade Secret	>69.4%
(R,S)-2-[(2,6-dimethylphenyl)- methoxyacetylamino]-propionic acid methyl ester	Mefenoxam	70630-17-0 & 69516-34-3	3.5%
4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile	Fludioxonil	131341-86-1	2.4%



## VIBRANCE® MAXX

Date: 1/29/2016 Replaces: 10/13/2015

1H-Pyrazole-4-carboxamide, N-(2-[1,1'-

Sedaxane

874967-67-6

4.7%

bicyclopropyl]-2-ylphenyl)-3-(difluoromethyl)-1-methyl-

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment

advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or

doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or

doctor for further treatment advice.

Most important symptoms/effects:

Eye irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

None known.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.



## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

#### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

#### FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

#### Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Propylene Glycol	Not Established	Not Established	10 mg/m³ TWA	AIHA
Other ingredients	Not Established	Not Established	Not Established	Not Applicable
Mefenoxam	Not Established	Not Established	5 mg/m³ TWA	Syngenta
Fludioxonil	Not Established	Not Established	5 mg/m³ TWA	Syngenta
Sedaxane	Not Established	Not Established	2 mg/m³ TWA	Syngenta

#### Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

### Individual protection measures:

#### Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

### Eye Contact:

Where eye contact is likely, use splash-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### Skin Contact:

Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.

### Inhalation:

A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits or until limits are established.

In case of emergency spills use a NIOSH certified combination respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge.



## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid Odor: Not determined

Odor Threshold: Not Applicable

pH: Not Available

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): >217°F
Flammable Limits (% in Air): NotAvailable
Flammability: Not Available

Vapor Pressure: Fludioxonil 2.9 x 10(-9) mmHg @ 77°F (25°C)

Mefenoxam 2.5 x 10(-5) mmHg @ 77°F (25°C)

Sedaxane 4.9 x 10(-10) mmHg @ 68°F (20°C)

Vapor Density: Not Available Relative Density: 1.0657 g/ml

Solubility (ies): Fludioxonil 1.8 mg/l @ 77°F (25°C)

Mefenoxam 26 g/l @ 77°F (25°C) Sedaxane 14 mg/l @ 77°F (25°C)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: Not Available

Decomposition Temperature: Not Available

Viscosity: Not Available

Other: None

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: Not Available

## 11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation

Delayed, immediate and chronic effects of exposure: Eye irritation



## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion: Oral (LD50 Rat) : > 5000 mg/kg body weight

Dermal: Dermal (LD50 Rat) : > 2000 mg/kg body weight

Inhalation: Inhalation (LD50 Male Rat) : > 2.6 mg/l

Eye Contact: Risk of serious damage to eyes (Rabbit)

Skin Contact: Non-Irritating (Rabbit)

Skin Sensitization: Not a skin sensitizer in animal tests.

#### Reproductive/Developmental Effects

Fludioxonil: Delayed development at doses causing maternal toxicity.

Mefenoxam: None observed.

Sedaxane: Did not show teratogenic effects in animal experiments. Did not show reproductive toxicity effects in animal experiments.

#### Chronic/Subchronic Toxicity Studies

Fludioxonil: Liver and kidney toxicity at high dose levels. Mefenoxam: Liver effects at high dose animal tests.

Sedaxane: STOT - Repeated Exposure: No adverse effect has been observed in chronic toxicity tests.

#### Carcinogenicity

Fludioxonil: Marginal increase (7%) of liver tumors (female, rats: 3,000 ppm); Within historical control range (1 to 10%).

Mefenoxam: None observed.

Sedaxane: Did not show mutagenic effects in animal experiments.

At extremely high doses, numerically higher incidences of uterine, thyroid and liver tumors (male and/or female rats) and liver tumors (male mice) were within the range of normal background variation and thus considered unrelated to treatment. Some Regulatory Authorities have taken a more conservative position that these high-dose findings are treatment-related in rats and mice. The dose levels where these findings occur are not relevant to human exposure levels.

Chemical Name	NTP/IARC/OSHA Carcinogen
1,2-Propanediol	No
Other ingredients	No
(R,S)-2-[(2,6-dimethylphenyl)- methoxyacetylamino]-propionic acid methyl ester	No
4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H- pyrrole-3-carbonitrile	No
1H-Pyrazole-4-carboxamide, N-(2-[1,1'-bicyclopropyl]-2-ylphenyl)-3-(difluoromethyl)-1-methyl-	No
Other Taxicity Information	

### Other Toxicity Information

Not Available

### **Toxicity of Other Components**

Other ingredients

Not Established



## VIBRANCE® MAXX

Date: 1/29/2016 Replaces: 10/13/2015

#### Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

#### **Target Organs**

**Active Ingredients** 

Fludioxonil: Liver, kidney

Mefenoxam: Liver

Sedaxane: Not Applicable

Inert Ingredients

Other ingredients: Not Established Propylene Glycol: CNS, kidney, liver

#### 12. ECOLOGICAL INFORMATION

#### **Eco-Acute Toxicity**

#### Mefenoxam:

Fish (Rainbow Trout) 96-hour LC50 > 121 ppm

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 113 ppm

Bird (Bobwhite Quail) 14-day LD50 981 mg/kg

#### Fludioxonil:

Fish (Rainbow Trout) 96-hour LC50 0.47 ppm

Green Algae 5-day EC50 0.087 ppm

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.9 ppm

Bird (Bobwhite Quail) 14-day LD50 > 2000 mg/kg

#### Sedaxane:

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.10 mg/l

Green Algae 96-hour EbC50 1.9 mg/l

Fish (Carp) 96-hour LC50 0.62 mg/l

#### **Environmental Fate**

### Fludioxonil:

The information presented here is for the active ingredient, fludioxonil.

Does not bioaccumulate. Persistent in soil. Stable in water. Low mobility in soil. Sinks in water (after 24 h).

#### Mefenoxam:

The information presented here is for the active ingredient, mefenoxam.

Does not bioaccumulate. Not persistent in soil or water. Moderate mobility in soil. Mixes/sinks (after 24 h).

### Sedaxane:

The information presented here is for the active ingredient, sedaxane.

Material is not readily biodegradable. Material is not persistent in soil.



## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

#### 13. DISPOSAL CONSIDERATIONS

#### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable Listed Waste: Not Applicable

#### 14. TRANSPORT INFORMATION

**DOT Classification** 

Ground Transport - NAFTA

Not regulated

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Sedaxane, Fludioxonil), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Sedaxane, Fludioxonil)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: III

### 15. REGULATORY INFORMATION

#### Pesticide Registration:

This chemical is a pesticide product registered 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 as required on the pesticide label:

Caution: Harmful if swallowed. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

EPA Registration Number(s):

100-1561

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable



## **VIBRANCE® MAXX**

Date: 1/29/2016 Replaces: 10/13/2015

TSCA Status:

TSCA R & D Exempt

### **16. OTHER INFORMATION**

NFPA Hazard Ratings **HMIS Hazard Ratings** Minimal Health: 2 Health: Slight 2 2 Moderate Flammability: 1 Flammability: 1 Instability: 0 Reactivity: 0 3 Serious Extreme Syngenta Hazard Category: C,S Chronic

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 10/13/2015

Revision Date: 1/29/2016 Replaces: 10/13/2015

Section(s) Revised: 14

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.