

## **ASCERNITY**

Date: 4/18/2016
Replaces: N\A

#### 1. PRODUCT IDENTIFICATION

Product identifier on label: **ASCERNITY**Product No.: A19188B
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: Oral: Category 4

Inhalation: Category 4

Eye Damage/Irritation: Category 2A Flammable Liquid: Category 4

Signal Word (OSHA): Warning

Hazard Statements: Combustible liquid

Harmful if swallowed

Causes serious eye irritation

Harmful if inhaled

Hazard Symbols:



Precautionary Statements: Keep away from heat, sparks, open flames, hot surfaces. No smoking.

Avoid breathing mist, vapors, spray.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection.

If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

present and easy to do. Continue rinsing.

Call a poison center, doctor or Syngenta if you feel unwell.

If eye irritation persists: Get medical advice.



## **ASCERNITY**

Date: 4/18/2016 Replaces: N\A

In case of fire: Use dry chemical, foam or CO2 for extinction.

Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Butyl Alpha-Hydroxypropionate	Butyl Lactate	138-22-7	Trade Secret
Other ingredients	Other ingredients	Trade Secret	<90.28%
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-	Difenoconazole	119446-68-3	7.48%
N-[9-(dichloromethylene)-1,2,3,4- tetrahydro-1,4-methanonaphthalen-5-yl]-3- (difluoromethyl)-1-methyl-1H-pyrazole-4- carboxamide	Benzovindiflupyr	1072957-71-1	2.24%

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.



## **ASCERNITY**

Date: 4/18/2016 Replaces: N\A

Specific Hazards:

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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.

#### 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
Butyl Lactate	Not Established	5 ppm TWA	5 ppm TWA	NIOSH
Other ingredients	Not Established	Not Established	Not Established	Not Applicable
Difenoconazole	Not Established	Not Established	5 mg/m³ TWA	Manufacturer
Benzovindiflupyr	Not Established	Not Established	1 mg/m³ TWA	Syngenta

#### Appropriate engineering controls:

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

Individual protection measures:



## **ASCERNITY**

Date: 4/18/2016 Replaces: N\A

#### 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 chemical splash 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 gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), 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.

In case of emergency spills, use a NIOSH certified respirator with any N, R, P or HE filter.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent light brown liquid

Odor: Aromatic

Odor Threshold: Not Available

pH: 4.2 (1% solution in deionized H2O @ 77°F [25°C])

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): ~ 177°F (Pensky-Martens CC)

Flammable Limits (% in Air): Not Available
Flammability: Combustible liquid

Vapor Pressure: Benzovindiflupyr Not Available

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

Vapor Density: Not Available

Relative Density: 1.055 g/cm³; 8.804 lbs/gal @ 68°F (20°C)

Solubility (ies): Benzovindiflupyr Not Available

Difenoconazole 15 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.



## **ASCERNITY**

Date: 4/18/2016 Replaces: N\A

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

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

Ingestion: Oral (LD50 Rat): 1030 mg/kg body weight

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

Eye Contact: Moderately Irritating (Rabbit)

Skin Contact: Non-Irritating (Rabbit)

Skin Sensitization: Not a Sensitizer (Guinea Pig)

#### Reproductive/Developmental Effects

Benzovindiflupyr: Did not show reproductive toxicity effects in animal experiments.

Difenoconazole: None observed. Chronic/Subchronic Toxicity Studies

Benzovindiflupyr: The substance or mixture is not classified as specific target organ toxicant, single exposure. Difenoconazole: Kidney and liver effects at high doses (>5000 ppm; rats); Eye effects in dogs at high dose levels.

#### Carcinogenicity

Benzovindiflupyr: Animal testing did not show any mutagenic effects.

Studies in rodents have shown no treatment-related tumor findings of relevance to human health.

Difenoconazole: Did not show carcinogenic effects in animal experiments.

Chemical Name NTP/IARC/OSHA Carcinogen

Butyl Alpha-Hydroxypropionate No
Other ingredients No
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]N-[9-(dichloromethylene)-1,2,3,4-tetrahydro-1,4-methanonaphthalen-5-yl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide



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Other Toxicity Information

None

**Toxicity of Other Components** 

**Butyl Lactate** 

May cause irritation of the eyes, digestive tract and the mucous membranes.

Other ingredients

Not Established

**Target Organs** 

**Active Ingredients** 

Benzovindiflupyr: Not Applicable

Difenoconazole: Brain, liver, kidney, gastrointestinal tract

**Inert Ingredients** 

Butyl Lactate: Eye, digestive tract, mucous membranes

Other ingredients: Not Established

#### 12. ECOLOGICAL INFORMATION

**Eco-Acute Toxicity** 

Difenoconazole:

Fish (Rainbow Trout) 96-hour LC50 1.1 mg/l

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.77 mg/l

Green Algae 72-hour EbC50 0.032 mg/

Benzovindiflupyr:

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.085 mg/l

Fish (Carp) 96-hour LC50 0.0035 mg/l

#### **Environmental Fate**

Benzovindiflupyr:

The following information is for the active ingredient, benzovindiflupyr.

Biodegradability: Not biodegradable.

Does not bioaccumulate.

Slightly mobile in soils.

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Difenoconazole:

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

Stable in soil and water. Low to moderate mobility in soil. Sinks in water (after 24 h).

#### 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

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#### 14. TRANSPORT INFORMATION

**DOT Classification** 

Ground Transport - NAFTA < 119 gallons: Not regulated

> 119 gallons:

Proper Shipping Name: Combustible Liquid, N.O.S. (Butyl Lactate)

Hazard Class: Class 3

Identification Number: NA 1993

Packing Group: PG III

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Benzovindiflupyr, Difenoconazole), Marine

Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Benzovindiflupyr, Difenoconazole)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG 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: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes or clothing.

EPA Registration Number(s):

100-1477

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Fire Hazard

Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

Exempt from TSCA, subject to FIFRA



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#### **16. OTHER INFORMATION**

NFPA Hazard Ratings HMIS Hazard Ratings

Health: 2 Health: 1 Slight 2 2 2 Flammability: 2 Flammability: Moderate Reactivity: Serious Instability: Extreme

Syngenta Hazard Category: B,S

\* Chronic

Minimal

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 4/18/2016

Revision Date: Replaces:

Section(s) Revised:

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.