

Report Date 27-Jun-22

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#### 1. Identification

Product Name: FIRST DEFENSE Cereals ZX

Synonyms: None

**Product Use**: Fungicide Seed Treatment **Manufacturer/Supplier**: Helena Agri-Enterprises, LLC

Address : 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

**Transportation Emergency Number**: CHEMTREC:800-424-9300

### 2. Hazard Identification





Signal Word: Warning

Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Acute Toxicity Oral : LD50 >5,000 mg/kg - Not classified as hazardous under 29 CFR

1910.1200

Acute Toxicity Dermal : LD50 >5,000 mg/kg - Not classified as hazardous under 29 CFR

1910.1200

Hazard Categories: Inhalation Toxicity-4; Reproductive Toxicity-2

Hazard Statement : Harmful if inhaled

Suspected of damaging fertility or the unborn child

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Difenoconazole	119446-68-3	3.37-3.73
Mefenoxam	70630-17-0	1.41-1.55
	69516-34-3	
Thiabendazole	148-79-8	1.80-1.98
Tebuconazole	107534-96-3	0.53-0.65
Red Colorant	7023-61-2	19.4-20.60
Ethylene Glycol	107-21-1	4.75-5.25
Other ingredients	Proprietary	>65.0



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#### 4. First Aid Measures

Eye : Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.

Skin: Wash skin with soap and water.

Inhalation: Remove to fresh air. If symptoms persist, call a physician. If breathing has

stopped, give artificial respiration. Get medical attention immediately.

Ingestion : Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth

to an unconscious person. Get medical attention.

Attention and Special Treatment

Indication of Immediate Medical : May cause coughing and/or wheezing or difficulty in breathing. Treat

symptomatically.

### 5. Fire Fighting Measures

Extinguishing Media : Use extinguishing media suitable for underlying cause of fire. Use of water spray

may be inefficient.

Specific Hazards Arising from the

Chemical

Needed

: No information available

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Do not

scatter spilled liquid with high pressure water streams. Use of water spray when

fighting fire may be inefficient.

#### 6. Accidental Release Measures

Personal Precautions : Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal

protective equipment as required.

**Protective Equipment**: Safety glasses or face shield, impervious gloves, impervious apron and footwear.

Respiratory protection not normally needed. Eyewash and emergency shower

should be available in work area.

**Emergency Procedures**: Avoid contact with skin, eyes or clothing.

Methods and Materials for : Prevent further leakage or spillage if safe to do so. Pick up and transfer spilled

**Containment and Cleanup** product to properly labeled containers.

## 7. Handling and Storage

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practices. Avoid

contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory protection equipment.

Conditions for Safe Storage : Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated

place. Keep out of the reach of children.



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## 8. Exposure Controls / Personal Protection

TLV/PEL: Ethylene glycol: PEL=vacated; TLV=25 ppm (TWA)(vapor fraction)

Appropriate Engineering Controls: Provide ventilation systems.

Personal Protective Equipment : Safety glasses or face shield, impervious gloves, impervious apron and footwear.

Respiratory protection not normally needed. Eyewash and emergency shower

should be available in work area.

## 9. Physical and Chemical Properties

Odor/Appearance: Red, opaque liquid; moderate bitter odor.

Flash Point, oF : >100 Degrees C.

Boiling Point, oF : No data available

Melting Point(Freezing point), oC : No data available Vapor Pressure, mm Hg @ 20 oC : No data available

Vapor Density : No data available Solubility in Water : No data available

**Molecular Formula**: Not applicable, formulated mixture.

**Density, g/mL @ 25 oC** : 1.0 @ 24 Deg. C.

Evaporation Rate(Butyl Acetate = : No data available

1)

Octanol/Water Partition : No information available

Coefficient

**pH** : 6.0-7.0

Flammable Limits (approximate : No data available

volume % in air)

**Auto-ignition Temperature** : No data available **Decomposition temperature** : Not applicable

## 10. Stability and Reactivity

Reactivity: Not reactive

Chemical Stability : Stable

Hazardous Decomposition : None currently known.

**Products** 

Hazardous Polymerization : Will not occur Conditions to Avoid : Excessive heat

**Incompatible Materials**: None currently known.

### 11. Toxicological Information



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Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012). Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).

Acute Toxicity Inhalation LC50 : >2.08 mg/L (rat). Harmful if inhaled.

Likely Routes of Exposure : Inhalation

**Skin Irritation**: Not classified as hazardous under 29 CFR 1910.1200 (2012). **Eye Irritation**: Not classified as hazardous under 29 CFR 1910.1200 (2012)

**Skin Sensitization**: Did not cause sensitization on laboratory animals.

**Carcinogenic**: No information available. No components are listed by IARC, NTP or OSHA. **Chronic Effects**: Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Contains a known or suspected reproductive toxin. Classification based on data

available for ingredients.

**Other Hazards**: CA PROPOSITION 65 **WARNINGS!**: This product can expose you to chemicals

including Ethylene Glycol, which is known to the State of California to cause birth

defects or other reproductive harm. For more information go to

www.P65Warnings.gov.

### 12. Ecological Information

**Ecotoxicity**: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and Degradability: No information available

Bioaccumulative Potential: There is no data for this product.

Mobility in Soil : No information found

Other Adverse Effects: Red Colorant: LC50 (fish)>100 mg/L (96 h, Danio rerio). Ethylene Glycol:

EC50=6500-13000 mg/L (96h, Pseudokirchneriella subcapitata); LC50 (fish)

ranges from 14-18 mL/L to 41000 mg/L (96h, Oncorhynchus mykiss).

## 13. Disposal Considerations

Waste Disposal Method: This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

**UN Proper Shipping Name**: Not regulated by D.O.T.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

rackaging Group . None

**Environmental Hazards**: Not listed as a Marine Pollutant per Appendix B to 49 CFR 172.101.

Transport in Bulk: Not regulated by DOT for bulk shipments by ground.

Special Precautions for : Reportable Quantity (RQ) for Ethylene Glycol = 5,000 lbs/>11.419 gal, May be

**Transportation** regulated as a Marine Pollutant if shipped by air (IATA) or water (IMDG) under

international classification criteria.



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Freight Classification: Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

## 15. Regulatory Information

National Fire Protection : Association Rating

Health: 2 Fire: 1 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate( Acute) Health: Y Delayed (Chronic) Health: Y

Sudden Release of N

Pressure: Fire: N

Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling 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:

EPA Registration Number : 45002-27-5905

FIFRA Signal Word : Caution

FIFRA Label Statement: Keep out of reach of children.

FIFRA Label Statement: Avoid contact with skin, eyes, or clothing.

FIFRA Label Statement : Wear long-sleeved shirt and long pants, socks and shoes, and FIFRA Label Statement : chemical-resistant gloves made of any waterproof material. FIFRA Label Statement : Wash thoroughly with soap and water after handling.

FIFRA Label Statement : No additional label statements. FIFRA Label Statement : No additional label statements.

### 16. Other Information

Data of Preparation/Revision : 27-June-2022