



## Safety Data Sheet

Report Date 01-Jun-23

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### 1. Identification

**Product Name** : SEED SHIELD SELECT  
**Synonyms** : None  
**Product Use** : Insecticide with Fungicides  
**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 (no pictogram required)  
**Skin Irritation** : No data available  
**Eye Irritation** : No data available  
**Acute Toxicity Oral** : LD50 > 2,000 mg/kg (female rat)  
**Acute Toxicity Dermal** : No acute dermal toxicity  
  
**Hazard Categories** : Oral Toxicity-5  
  
**Hazard Statement** : May be harmful if swallowed

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Thiamethoxam	153719-23-4	16.815
Metalaxyl-M	70630-17-0	2.5223
Sedaxane	874967-67-6	0.8408
Fludioxonil	131341-86-1	0.8408
Azoxystrobin	131860-33-8	0.6726
Picarbutrazox	500207-04-5	0.3363
Ethanamine, N,N-diethyl-	121-44-8	0 - <0.1
Proprietary blend of surfactants and alkanoates	Proprietary	>=17 to <40

### 4. First Aid Measures

**Eye** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.  
**Skin** : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.



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- Inhalation** : Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest.
- Ingestion** : If swallowed, seek medical advice immediately and provide the container or label. Do NOT induce vomiting.
- Indication of Immediate Medical Attention and Special Treatment Needed** : There is no specific antidote available. Treat symptomatically.

### 5. Fire Fighting Measures

- Extinguishing Media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. do not use a solid water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Chemical** : This product contains combustible organic ingredients; fire will produce dense black smoke containing hazardous products of combustion.
- Special Fire Fight Proc** : Wear full protective clothing and self-contained breathing apparatus. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

### 6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Protective gloves, impervious clothing. Respiratory protection not normally required.
- Emergency Procedures** : Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- Methods and Materials for Containment and Cleanup** : Contain spillage and then collect with non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for proper disposal. Clean contaminated surfaces thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

### 7. Handling and Storage

- Precautions for Safe Handling** : No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.
- Conditions for Safe Storage** : Store in a cool, dry place. Storage for extended periods above 90 Degrees F. is not recommended. Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove spillage to chemical waste storage area until proper disposal can be made if the product cannot be used according to the label.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV/PEL established for mixture.
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.



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**Personal Protective Equipment** : Protective gloves, impervious clothing. Respiratory protection not normally required.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Red liquid; no odor described.  
**Flash Point, °F** : Does not flash  
**Boiling Point, °F** : No data available  
**Melting Point(Freezing point), °C** : No data available  
**Vapor Pressure, mm Hg @ 20 °C** : No data available  
**Vapor Density** : No data available  
**Solubility in Water** : No data available  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.1402  
**Evaporation Rate(Butyl Acetate = 1)** : No data available  
**Octanol/Water Partition Coefficient** : No data available  
**pH** : 6.2  
**Flammable Limits (approximate volume % in air)** : No data available  
**Auto-ignition Temperature** : Not applicable  
**Decomposition temperature** : No data available

### 10. Stability and Reactivity

**Reactivity** : Not reactive  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : No hazardous decomposition products are known.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : No decomposition if used as directed.  
**Incompatible Materials** : None known

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : >2,000 mg/kg (female rat). May be harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : Not classified as hazardous under 29 CFR 1910.1200 (2012). No acute dermal toxicity.  
**Acute Toxicity Inhalation LC50** : >5.16 mg/L/4 hour (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Likely Routes of Exposure** : Ingestion, inhalation, eyes, skin  
**Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012). No skin irritation.



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- Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012). No eye irritation.
- Skin Sensitization** : Not a skin sensitizer.
- Carcinogenic** : No ingredients listed as carcinogen by IARC, NTP or OSHA at levels greater than or equal to 0.1%.
- Chronic Effects** : CA PROPOSITION 65 **WARNING!**: This product can expose you to chemicals including sedaxane, which is known to the State of California to cause cancer, and (cont'd below)
- Other Hazards** : methanol, ethane-1,2-diol and toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 12. Ecological Information

- Ecotoxicity** : No data available
- Persistence and Degradability** : No data available
- Bioaccumulative Potential** : No data available
- Mobility in Soil** : No data available
- Other Adverse Effects** : No data available

### 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 DOT. If shipped by air (IATA) or water (IMDG), classified as a Marine Pollutant.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging 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 Transportation** : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Thiamethoxam, Azoxystrobin), 9, PG III, Marine Pollutant
- Freight Classification** : Pesticides, NOI, Insecticides or Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 60)



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### 15. Regulatory Information

National Fire Protection :  
Association Rating

Health: 0 Fire: 0 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: N  
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** : 100-1732-5905

**FIFRA Signal Word** : Caution

**FIFRA Label Statement** : Keep out of reach of children.

**FIFRA Label Statement** : Harmful if swallowed.

**FIFRA Label Statement** : Harmful if absorbed through skin.

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

**FIFRA Label Statement** : Wash thoroughly with soap and water after handling and before

**FIFRA Label Statement** : eating, drinking, chewing gum, using tobacco, or using the toilet.

**FIFRA Label Statement** : Remove and wash contaminated clothing before reuse.

### 16. Other Information

**Data of Preparation/Revision** : 01-June-2023