



Safety Data Sheet

Report Date 16-Feb-16

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1. Identification

Product Name : SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)
Synonyms : None
Product Use : Seed Treatment
Manufacturer/Supplier : Helena Chemical Company
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 : Causes mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >5,000 mg/kg (female rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg (rat)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3; STOT,Repeated-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
Harmful if inhaled
May cause damage to organs (liver and kidney) through prolonged or repeated exposure

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Thiamethoxam	153719-23-4	22.60
Mefenoxam	70630-17-0 and 69516-34-3	1.70
Fludioxonil	131341-86-1	1.12
Azoxystrobin	131860-33-8	0.90



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Other ingredients

Proprietary

73.68

4. First Aid Measures

- Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
- Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation** : 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 a poison control center or doctor for further treatment advice.
- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing media.
- Specific Hazards Arising from the Chemical** : Irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
- Special Fire Fight Proc** : Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles 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** : Contain the spill to prevent spreading, contaminating soil or entering sewers, waterways or drainage systems.
- Methods and Materials for Containment and Cleanup** : Cover entire spill with absorbent, collect and place in suitable containers for disposal. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent, collect and place in containers for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate water, food or feed by storage, handling, disposal or cleaning of equipment.
- Conditions for Safe Storage** : Store in a cool, dry place. Storage for extended periods above 90 Degrees F. is not recommended.



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8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL established for mixture or components.

Appropriate Engineering Controls : General or local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles 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 : Blue liquid with aromatic odor.

Flash Point, °F : Not available

Boiling Point, °F : Not available

Melting Point(Freezing point), °C : Not determined

Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density : Not determined

Solubility in Water : Not determined

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.156

Evaporation Rate(Butyl Acetate = 1) : Not determined

Octanol/Water Partition Coefficient : No information found

pH : 5.8 (1%)

Flammable Limits (approximate volume % in air) : Not available

Auto-ignition Temperature : Not available

Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability : Stable

Hazardous Decomposition Products : None known.

Hazardous Polymerization : Will not occur

Conditions to Avoid : No information found

Incompatible Materials : None currently known.



11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/kg (female rat). May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (fat). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : >2.60 mg/L/4 hour (rat). Harmful if inhaled.
- Likely Routes of Exposure** : Eyes, skin
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : Not a skin sensitizer.
- Carcinogenic** : Fludioxonil: Marginal increase, 7%, of liver tumors (female rats).
- Chronic Effects** : Azoxystrobin, Fludioxonil, Mefenoxam: Specific Target Organ Toxicity-Repeated Exposure: May cause damage to organs (liver and kidney) through prolonged or repeated exposure.
- Other Hazards** : Thiamethoxam, Subchronic: Liver effects occurred in rodents only at high dose levels. Azoxystrobin, Mefenoxam: no carcinogenic effects observed.
Thiamethoxam: classified as "not likely to be carcinogenic in humans" based on lifetime studies in mice/rats.

12. Ecological Information

- Ecotoxicity** : No information found
- Persistence and Degradability** : No information found
- Bioaccumulative Potential** : No information found
- Mobility in Soil** : No information found
- Other Adverse Effects** : Marine pollutant under international criteria. Not a marine pollutant per 49 CFR 172.101, Appendix B.

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.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Thiamethoxam), 9, PG III, Marine Pollutant
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : No information found



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Freight Classification : Pesticides, NOI, Fungicides or Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 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 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 : 100-1384-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes moderate eye irritation.

FIFRA Label Statement : Harmful if swallowed.

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

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

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

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 16-February-2016