

Material Safety Data Sheet

Effective Date: 14-JAN-2011
Product: SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)

I. IDENTIFICATION

Chemical Name: See Ingredients, Section III.
Chemical Family: Seed Treatment
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: See Ingredients, Section III.
EPA Number: 100-1384-5905

II. PHYSICAL DATA

Boiling Point: Not available
Freezing Point: Not determined
Spec Gravity: 1.156 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Not determined
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Blue liquid with aromatic odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Thiamethoxam	153719-23-4	22.6	N/E	
Mefenoxam (CAS No. 70630-17-0 & 69516-34-3)		1.7	N/E	
Fludioxonil	131341-86-1	1.1	N/E	
Azoxystrobin	131860-33-8	0.9	N/E	
Inert ingredients, including glycerin.		73.7		Mild eye & skin irritation.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not available
Autoignition Temp: Not available
Flammable Limit: Not available
Extinguishing Media: Use dry chemical, foam or carbon dioxide extinguishing media.
Special Fire Fight Proc: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area.
Fire and Expl Hazard: Irritating and possibly toxic gases may be

Material Safety Data Sheet

Effective Date: 14-JAN-2011

Product: SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)

generated by thermal decomposition or
combustion.

V. HEALTH HAZARD

Carcinogen Information: See Carcinogen Note, Section IX.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Acute Oral LD50 (female rat) > 5,000 mg/kg.
Skin Absorption: Acute Dermal LD50 (rat) > 5,000 mg/kg. No
hazard anticipated.
Inhalation: Acute Inhalation LC50 (rat) > 2.60 mg/L (4
hours).
Skin contact: Slightly irritating with skin contact. Not a
skin sensitizer.
Eye Contact: Mildly irritating with eye contact.
Chronic Effects: Long term exposure to large amounts may affect
the liver and/or kidney.
Other Hazard: None known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a poison control center or doctor
immediately for treatment advice. Victim
should sip a glass of water if able to
swallow. Do not induce vomiting unless told to
do so by a medical professional. Do not give
anything by mouth to an unconscious person.
Skin: Remove contaminated clothing. Rinse skin
immediately with plenty of water, continuing
for 15 to 20 minutes. Call a poison control
center or doctor for treatment advice.
Inhalation: Move to fresh air. If not breathing, call 911
or an ambulance, then give artificial
respiration, preferably mouth-to-mouth if
possible. Seek medical treatment if irritation
persists.
Eyes: Hold eye open and rinse slowly and gently with
water for 15-20 minutes. Remove contact
lenses, if present, after first 5 minutes,
then continue rinsing the eye. Seek medical
treatment.
Notes to Physician: There is no specific antidote if this product
is ingested. Treat symptomatically.

Material Safety Data Sheet

Effective Date: 14-JAN-2011

Product: SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Stable under normal use and storage conditions.

Polymerization: Will Not Occur

Conditions to Avoid: None currently known.

Incompatibility material: None currently known.

Hazardous Combustion: Irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain the spill to prevent spreading, contaminating soil or entering sewers, waterways or drainage systems. 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.

Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None normally needed. Use NIOSH-approved respirator with N, R, P or HE filter during spills.

Ventilation: General or local exhaust sufficient.

Gloves: Chemical-resistant gloves.

Eyes: Chemical splash goggles.

Other: Eyewash station, emergency shower, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Store in well-ventilated, secure area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for

Material Safety Data Sheet

Effective Date: 14-JAN-2011

Product: SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)

exposure. Wash thoroughly with soap and water after handling. Do not reuse containers.

Other precaution: Carcinogen Note: For the active ingredients in this mixture: Azoxystrobin - no carcinogenic effects observed in rats or mice at doses up to the maximum tolerated dose; Fludioxonil - marginal (7%) increase of liver tumors (female, rats: 3,000 ppm); Mefenoxam - none observed; Thiamethoxam - classified as "not likely to be carcinogenic in humans" based on lifetime studies in mice and rats.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT.
Hazard Class: None
Identification No: None
Labels Required: None required
Placarding: None
Freight Class: Pesticides, NOI, Fungicides or Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

Chemical Name ----- Equivalent R.Q. -----

Not applicable ----- Not applicable -----

TRANSPORTATION NOTE:

If shipped by air or water, ship as:

UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Thiamethoxam, Fludioxonil), 9, PG III, Marine Pollutant

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

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

Health: 1 Fire: 1 Reactivity: 0

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

Immediate (Acute) Health: Y Delayed (Chronic) Health: N
Sudden Release of pressure: N Fire: N
Reactive: N

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

17-JAN-2011 09:32:28
Page 5 Of 5

Material Safety Data Sheet

Effective Date: 14-JAN-2011

Product: SEED SHIELD SOYBEAN (EPA REG NO 100-1384-5905)

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
Helena Chemical Company believes that the data contained herein is factual.
This data is not to be taken as a warranty or representation of legal
responsibility. It is offered solely for your consideration, investigation
and verification.