

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300**

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- 1.1 PRODUCT IDENTIFIER:**  
**TRADE NAME:** EQUITY® VIP INSECTICIDE WITH FUNGICIDES
- 1.2 RECOMMENDED USE:** GROUP 4A INSECTICIDE | GROUP 1|4|7|12 FUNGICIDES - A SEED TREATMENT PRODUCT
- 1.3 SUPPLIER DETAILS:**  
LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286
- 1.4 24 Hour Emergency Phone:** 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565 – **Product Information:** 1-888-574-2878 (LPI-CUST)  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

Acute Toxicity – Oral

Category 4

H302

**2.2 Label elements**



Signal word: WARNING  
Hazard Statement: H302 – Harmful if swallowed.

Precautionary Statement: (Prevention): P264 – Wash thoroughly with soap after handling.  
P270 – Do not eat, drink or smoke when using this product.

Precautionary Statement: (Response): P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 – Rinse mouth.

Precautionary Statement: (Storage): Not applicable or required.

Precautionary Statement: (Disposal): P501 – Dispose of contents/container in accordance with local, state, and federal regulations.

**2.3 Other hazards**

None known



# SAFETY DATA SHEET

SDS NUMBER: 0001101-16-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 09/12/16

**EQUITY® VIP**  
SUPERSEDES: NEW

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.1 Substances

### 3.2 Mixtures

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Concentration [%]
Thiamethoxam	153719-23-4	22.40
Mefenoxam	70630-17-0 and 69516-34-3	3.35
Thiabendazole	148-79-8	2.24
Fludioxonil	131341-86-1	1.12
Sedaxane	874967-67-6	1.12
Glycerin	56-81-5	< 10
Propylene Glycol	57-55-6	< 5
*Other ingredients	Trade Secret	> 54.77

\*Ingredients not specifically listed are non-hazardous or are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.
- Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 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.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Ingestion: Harmful if swallowed.

### 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565**

Take container, label or product name with you when seeking medical attention.

**NOTES TO PHYSICIAN:** Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIRE FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



**SAFETY DATA SHEET**

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SUPERSEDES: NEW

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination. Never return spills to original containers for re-use.

**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers: Store in a cool, dry place. Storage for extended periods above 90°F is not recommended. Do not contaminate water, food, or feed by storage or disposal, or cleaning of equipment.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:  
OCCUPATIONAL EXPOSURE LIMITS**

**U.S. Workplace Exposure Level (ACGIH) TLVs**

Components	Type	Value
No data available.		

**U.S. Workplace Exposure Level (OSHA) PELs**

Components	Type	Value
Glycerin	TWA	15 mg/m <sup>3</sup> (Total Dust) - Mist 5 mg/m <sup>3</sup> (Respirable fraction) - Mist

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		

**8.2 EXPOSURE CONTROLS:**

**Engineering Measures**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticide [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.  
 Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils. Shoes plus socks.  
 Respiratory Protection: Not normally required. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 APPEARANCE :** Liquid  
**ODOR:** Not determined.  
**ODOR THRESHOLD:** No data available.  
**COLOR:** No data available.  
**pH:** No data available.  
**MELTING POINT / FREEZING POINT:** No data available  
**BOILING POINT:** No data available  
**FLASH POINT:** No data available.  
**FLAMMABILITY (solid, gas):** No data available.  
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.  
**VAPOR PRESSURE:** Thiamethoxam:  $2 \times 10^{-11}$  mmHg @ 68°F / 20°C.  
Mefenoxam:  $2.5 \times 10^{-5}$  mmHg @ 77°F / 25°C.  
Thiabendazole:  $4.0 \times 10^{-9}$  mmHg @ 77°F / 25°C.  
Fluidoxonil:  $2.9 \times 10^{-9}$  mmHg @ 77°F / 25°C.  
Sedaxane:  $4.9 \times 10^{-10}$  mmHg @ 68°F / 20°C.  
**SOLUBILITIES:** Thiamethoxam: 4.1 mg/l @ 77°F / 25°C  
Mefenoxam: 26 g/l @ 77°F / 25°C  
Thiabendazole: 30 mg/l (pH 7, pH 10) @ 68°F / 20°C  
Fluidoxonil: 1.8 mg/l @ 77°F / 25°C  
Sedaxane: 14 mg/l @ 77°F / 25°C  
**PARTITION CO-EFFICIENT, n-OCTANOL / WATER:** No data available.  
**AUTO-IGNITION TEMPERATURE:** No data available.  
**DECOMPOSITION TEMPERATURE:** No data available  
**VISCOSITY: (kinematic):** No data available  
**SPECIFIC GRAVITY (Water = 1):** 1.154 g/ml  
**DENSITY:** 9.63 lbs./gal / 1.15 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.  
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

- 10.1 REACTIVITY**  
Stable
- 10.2 CHEMICAL STABILITY**  
Stable under normal temperature and use conditions
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS**  
No data available. Will not polymerize.
- 10.4 CONDITIONS TO AVOID**  
None known.
- 10.5 INCOMPATIBLE MATERIALS**  
None known.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**  
No data available.

## 11 TOXICOLOGICAL INFORMATION

- 11.3 LIKELY ROUTES OF EXPOSURE**  
Ingestion.  
**LC<sub>50</sub> (rat):** >2.60 mg/L (4 HR)  
**LD<sub>50</sub> Oral (rat):** 3758 mg/kg  
**LD<sub>50</sub> Dermal (rat):** > 5000 mg/kg  
**Acute Toxicity Estimates:** No data available  
**Skin Irritation (rabbit):** Not an irritant.  
**Eye Irritation (rabbit):** Not an irritant  
**Specific Target Organ Toxicity:** STOT-Single Exposure: No data available for end-use product.  
STOT-Repeated Exposure: No data available for end-use product.  
**Aspiration:** No data available  
**Skin Sensitization (guinea pig):** Not a sensitizer  
**Carcinogenicity:** No data available  
**Reproductive Toxicity:** No data available for end-use product  
**Germ Cell Mutagenicity:** No data available  
**Interactive Effects:** None known

**12 ECOLOGICAL INFORMATION**

**12.3 ECOTOXICITY**

The product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates.

**Ecotoxicological Data**

	<b>Species</b>	<b>Test Results</b>
Mefenoxam	Rainbow Trout	> 121 ppm – 96-hour LC <sub>50</sub>
	Daphnia Magna	> 113 ppm – 46-hour EC <sub>50</sub>
	Bobwhite Quail	981 mg/kg – 14-day LD <sub>50</sub>
Fludioxonil	Rainbow Trout	0.47 ppm - 96-hour LC <sub>50</sub>
	Daphnia Magna	0.9 ppm - 48-hour EC <sub>50</sub>
	Bobwhite Quail	> 2000 mg/kg – 14-day LD <sub>50</sub>
	Green Algae	0.087 ppm 5-day EC <sub>50</sub>
Thiabendazole	Trout	0.56 ppm – 96-hour LC <sub>50</sub>
	Daphnia Magna	0.81 mg/l – 48-hour EC <sub>50</sub>
	Bobwhite Quail	> 2250 mg/kg – Oral LD <sub>50</sub>
Thiamethoxam	Rainbow Trout	> 100 ppm – 96-hour LC <sub>50</sub>
	Daphnia Magna	> 106 ppm – 48-hour EC <sub>50</sub>
	Mallard Duck	576 mg/kg – Oral LD <sub>50</sub>
	Green Algae	> 97 ppm – 4- day EC <sub>50</sub>
Sedaxane	Carp	0.62 mg/l – 96-hour LC <sub>50</sub>
	Daphnia Magna	6.10 mg/l – 48-hour EC <sub>50</sub>
	Green Algae	1.9 mg/l – 96-hour EbC <sub>50</sub>

Drift or runoff may adversely affect non-target plants.  
Do not apply directly to water.  
Do not contaminate water when disposing of equipment wash water.  
Do not apply when weather conditions favor drift from target area.

**12.2 PERSISTENCE AND DEGRADABILITY**

Biodegradability: Sedaxane is not readily biodegradable.

**12.3 BIOACCUMULATIVE POTENTIAL**

Bioaccumulation: Fludioxonil and Mefenoxam do not bioaccumulate. Thiabendazole has low bioaccumulation potential.

**12.4 MOBILITY IN SOIL**

Fludioxonil has low mobility in soil. Mefenoxam and Thiamethoxam have moderate mobility in soil.

**12.5 OTHER ADVERSE EFFECTS**

Assessment: No data available.

**13 DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycling program visit the ACRC web page at <http://www.acrcycle.org/>. Do not contaminate water, food or feed by storage or disposal.

**14 TRANSPORT INFORMATION**

**14.3 LAND TRANSPORT**

**DOT Shipping Description:** NOT REGULATED BY USDOT

**U.S. Surface Freight Classification:** INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120; CLASS: 60)



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## 15 REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

<b>NFPA &amp; HMIS Hazard Ratings:</b>		<b>NFPA</b>		<b>HMIS</b>		
	2	Health	0	Least	2	Health
	1	Flammability	1	Slight	1	Flammability
	0	Instability	2	Moderate	0	Reactivity
			3	High	C	PPE
			4	Severe		

#### SARA Hazard Notification/Reporting

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed.  
**SARA, Title III, Section 313:** Thiabendazole (CAS: 148-79-8) 2.24%.  
**RCRA Waste Code:** Not listed.  
**CA Proposition 65:** Not applicable

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### CAUTION

Harmful if swallowed.  
Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

## 16 OTHER INFORMATION

**SDS STATUS:** New.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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**EPA REG. NO.:** 34704-1101

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