

# SAFETY DATA SHEET

**Emergency Telephone Chemtrec 1-800-424-9300**

## 1. IDENTIFICATION

**PRODUCT NAME:** BIZATE 50 WSP  
**DESCRIPTION:** Miticide in Water Soluble Bags  
**EPA REGISTRATION NUMBER:** 34704-1148  
**COMPANY IDENTIFICATION:** LOVELAND PRODUCTS, INC.  
P.O. Box 1286  
Greeley, CO 80632-1286  
retail-SDS@nutrien.com

## 2. HAZARDS IDENTIFICATION



**WARNING**  
May cause allergic skin reaction



Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Bifenazate	Hydrazine carboxylic, 2-(4-methoxy[1,1'-biphenyl]-3-yl)-, 1-methylethyl ester	149877-41-8	50.0%

## 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information in this pesticide product (including health concerns, medical emergencies, or pesticide incidents) you may call MEDICAL EMERGENICES at 1-800-301-7976 24 hours per day, 7 days per week. For chemical emergency: spill, leak, fire, exposure or accidents call CHEMTREC: 1-800-424-9300 or U.S. Coast Guard National Response Center at 1-800-424-8802.

**IF ON SKIN:** Take off contaminated clothing and wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

## 5. FIRE-FIGHTING MEASURES

**Flash Point:** N/A

**Fire and Explosion Hazards:** No information available.

**Extinguishing Medium:** Water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** Oxides of carbon and nitrogen.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Sweep up spill and shovel into an appropriate container for disposal. Avoid dust formation. Decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Wear protective eyewear. Avoid contact with eyes or clothing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Keep out of reach of children and domestic animals.

**Storage:** Do not contaminate water, food or feed by storage or disposal. Store in a dry location.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Applicators and other handlers must wear protective eyewear, long-sleeved shirt and long pants, and shoes plus socks.

**General:** Follow manufacturer's instructions for cleaning and maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Off-white powder
<b>ODOR:</b>	Weak pungent
<b>FLASHPOINT:</b>	n/a
<b>PH:</b>	7.11 (1% aq.)
<b>DENSITY (TAP):</b>	0.4167 g/mL
<b>SOLUBILITY:</b>	Soluble

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** None known.

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents, strong acids, strong bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product is chemically stable and no hazardous reactions should occur if stored and handled as prescribed / indicated.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>ORAL TOXICITY (RAT LD<sub>50</sub>):</b>	> 5,000 mg/kg		
<b>DERMAL TOXICITY (RAT LD<sub>50</sub>):</b>	> 5,000 mg/kg		
<b>INHALATION TOXICITY (RAT LC<sub>50</sub>):</b>	> 5.2 mg/L (4-hour)		
<b>EYE IRRITATION:</b>	Mildly irritating		
<b>SKIN IRRITATION:</b>	Mildly irritating		
<b>SKIN SENSITIZATION:</b>	Guinea Pig – May cause sensitization of susceptible persons by skin contact.		
<b>CARCINOGENICITY:</b>			
<b>EPA:</b>	Not Listed	<b>NTP:</b>	Not Listed
<b>ACGIH:</b>	Not Listed	<b>OSHA:</b>	Not Listed
<b>IARC:</b>	Not Listed		

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**REPRODUCTIVE TOXICITY:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to birds, estuarine/marine invertebrates and fish. This product is toxic to bees exposed to direct treatment.

**The following information is for the active ingredient, Bifenazate:**

### AQUATIC TOXICITY

Rainbow Trout (96-hour LC<sub>50</sub>): 0.58 mg/L  
Bluegill (96-hour LC<sub>50</sub>): 0.76 mg/L  
Daphnia (48-hour EC<sub>50</sub>): 0.5 mg/L  
Green Algae (72-hour EC<sub>50</sub>): 0.9 mg/L

### AVIAN TOXICITY

Bobwhite Quail (acute LD<sub>50</sub>): 1142 mg/kg  
Bobwhite Quail (dietary LC<sub>50</sub>): 2298 mg/kg  
Mallard Duck (dietary LC<sub>50</sub>): 726 mg/kg

### OTHER TOXICITY

Bees (48-hr oral LD<sub>50</sub>): >100µg/bee  
Bees (contact): 8.5µg/bee

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

**US DOT (shipments by ground):**

**Containers < 882 pounds (119 Gallons by volume) Net Mass:**

Not regulated by DOT.

**Containers > 882 pounds (119 Gallons by volume) Net Mass:**

Shipping Name:	UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (bifenazate), 9, PG III
DOT Emergency Response Guide:	171
Marine Pollutant:	Yes

**IMDG (shipments by vessel):**

UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (bifenazate), 9, III, Marine Pollutant

**IATA (shipments by air):**

UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (bifenazate), 9, III, Marine Pollutant

## 15. REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Causes moderate eye irritation. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Avoid contact with eyes or clothing.

##### Environmental Hazards

This pesticide is toxic to birds, estuarine/marine invertebrates and fish. 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 wash waters or rinsate. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are foraging the treatment area.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

#### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

#### SARA Title III – Section 311/312 Hazard Categories

Immediate

#### SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

#### SARA Title III – Section 313 Reportable Ingredients

None

#### CERCLA Reportable Quantity (RQ) –

None

#### CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

### CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

### Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.