



## SAFETY DATA SHEET

SDS NUMBER: 001048-16-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/27/16

**AMPLIFY® II**  
SUPERSEDES: 05/10/10

**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: **AMPLIFY® II**

#### 1.2 RECOMMENDED USE: AEROSOL GRADE POTATO SPROUT INHIBITOR

#### 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

Acute Toxicity - Dermal

Category 4

H312

Acute Toxicity – Inhalation

Category 4

H332

Eye Damage/Irritation

Category 2B

H320

#### 2.2 Label elements



Signal word:

WARNING

Hazard Statement:

H302 – Harmful if swallowed.

H312 – Harmful in contact with skin.

H332 – Harmful if inhaled.

H320 – Causes eye irritation.

Precautionary

Statement:

(Prevention):

P260 – Do not breathe dust/fume/gas/mist/vapors/spray.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 – Wash hands and face thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P271 – Use only outdoors or in a well-ventilated area

Precautionary

Statement:

(Response):

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 – Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P321 – Specific treatment (see HOTLINE NUMBER information on the product label).

P362 – Take off contaminated clothing and wash before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P353+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313 – If eye irritation persists: Get medical advice/attention.

Precautionary

Statement:

(Storage):

P404 – Store in a closed container.

Precautionary

Statement:

(Disposal):

P501 – Dispose of contents/container to an approved waste disposal plant.



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### 2.3 Other hazards

None known

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.1 Substances

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
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### 3.2 Mixtures

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
2,6-Diisopropylnaphthalene	24157-81-1	Oral tox. 4; H302	99.83
Other ingredients (impurity)	none	Dermal tox. 4; H312 Inh. tox. 4; H332 Eye dam/irrit. 2B; H320	0.17

Ingredients not precisely identified are proprietary or non-hazardous.

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

**If inhaled:** Move person to fresh air. If person is breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** 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.

**If in eyes:** 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.

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

Symptoms: Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes eye irritation.

### 4.3 Immediate Medical Attention and Special Treatment

NOTES TO PHYSICIAN: No specific antidote is available. Treat symptomatically.

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

Have the product label or container with you when calling a poison control center or doctor or going for treatment.

## 5. FIRE FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), foam.

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

Specific Hazards During Firefighting: Fires involving this product may release carbon monoxide, carbon dioxide, reactive hydrocarbons, and irritating vapors.

### 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.



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### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions:

Release or Spill: Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator. Shovel into a container for later disposal.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions:

For spills: Allow material to solidify and scrape up. Spills may be collected with absorbent material and placed in a container for proper disposal in accordance with Federal, State and Local Regulations. Prevent runoff from entering sewer drains and waterways.

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

Methods for Clean-Up:

Avoid cleanup procedures that may result in water pollution.

### 7. HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid eye and skin contact. Use with ventilation and avoid breathing vapors. Wash hands before eating, drinking, chewing gum, using tobacco products or using the toilet.

#### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Keep container closed. This product may inhibit germination of seed potatoes. Do not contaminate water, food or feed by storage or disposal.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS:

##### OCCUPATIONAL EXPOSURE LIMITS

##### U.S. Workplace Exposure Level (AIHA) WEELs (Workplace Environmental Exposure Levels)

Components	Type	Value
No listing	TWA	

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

Components	Type	Value
No listings	TWA	

#### Biological limit values

##### ACGIH Biological Exposure Indices

Components	Value	Specimen
No listings		

#### 8.2 EXPOSURE CONTROLS:

##### Engineering Measures

Local ventilation recommended. Work indoors only. Work in well-ventilated areas. Follow label directions. Restricted reentry period is 2 hours with mechanical ventilation and 4 hours with windows.

**Personal Protective Equipment for Handlers:** When handling Amplify® II during the application period, personal protective equipment (PPE) including chemical-resistant gloves, long-sleeve shirt, long pants, shoes and socks and a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC- 14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter must be worn.

##### Individual Protection Measures:

Eye / Face Protection:

Goggles or shielded safety glasses are recommended.

Skin Protection:

Long-sleeved shirt and long pants. Chemical-resistant gloves. Shoes plus socks.

Respiratory Protection:

In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment approved by MSHA/NIOSH. Wear respiratory protection during operations where spraying or misting occurs. 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 :	Crystalline solid
ODOR:	Odorless.
ODOR THRESHOLD:	No data available.
COLOR:	Medium gray to dark brown.
pH:	5.5 – 7.5
MELTING POINT / FREEZING POINT:	Not applicable.
BOILING POINT:	554°F / 290°C.
FLASH POINT:	Not applicable.
FLAMMABILITY (solid, gas):	Not flammable.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	$6.1 \times 10^{-10}$ @ 25°C.
SOLUBILITY:	Dispersible.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY:	No data available
SPECIFIC GRAVITY (Water = 1):	0.9 g/ml
BULK DENSITY:	56.18 lbs./ft <sup>3</sup>   899.9 kg/m <sup>3</sup>

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 conditions

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available. Will not polymerize.

#### 10.4 CONDITIONS TO AVOID

Excessive heat.

#### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizers, acids, chlorine.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may produce CO, NO<sub>x</sub>, SO<sub>x</sub>, and reactive hydrocarbons.

### 11 TOXICOLOGICAL INFORMATION

#### 11.3 LIKELY ROUTES OF EXPOSURE

Ingestion, Dermal, Inhalation, Eye Contact.

LC<sub>50</sub> (rat): > 2.60 mg/L (4H)

LD<sub>50</sub> Oral (rat): > 5,000 mg/kg.

LD<sub>50</sub> Dermal (rabbit): > 5,000 mg/kg

Acute Toxicity Estimates: No data available.

Eye Irritation (rabbit): Moderate eye irritant.

Skin Irritation (rabbit): Slight irritant.

Inhalation: No data available.

Ingestion: Harmful if swallowed.

Specific Target Organ Toxicity: None known.

Aspiration: No data available.

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: Not a carcinogen.

Germ Cell Mutagenicity: No data available.

Interactive Effects: None known.



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### 12 ECOLOGICAL INFORMATION

#### 12.3 ECOTOXICITY

Do not contaminate water.

##### Ecotoxicological Data

##### Species

##### Test Results

No data available

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: No data available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

#### 12.4 MOBILITY IN SOIL

No data available.

#### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances. Do not contaminate water, food or feed by storage or disposal.

### 14 TRANSPORT INFORMATION

#### 14.3 LAND TRANSPORT

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

**U.S. Surface Freight Classification:** INHIBITORS, NOI, POTATO SPROUTING (NMFC 101690; CLASS: 60)

### 15 REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

##### NFPA & HMIS Hazard Ratings:

##### NFPA

1	Health	0	Least
1	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

##### HMIS

1	Health
1	Flammability
0	Reactivity
G	PPE



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### SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate

Y

Delayed

Y

Fire

N

Reactive

N

Sudden Release of Pressure

N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.

SARA, Title III, Section 313: Not listed.

RCRA Waste Code: Not listed.

CA Proposition 65: Not listed.

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 inhaled, swallowed, or absorbed through skin.

Causes moderate eye irritation.

Avoid breathing vapors or fog.

Avoid contact with skin, eyes, or clothing.

Wash thoroughly with soap and water after handling.

Remove and wash contaminated clothing before reuse.

## 16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

EPA REG. NO.: 34704-1048

@Amplify is a registered trademark of Loveland Products, Inc.

Covered under U.S. Patent Number 5,622,912

This product Made in Germany

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