

**SAFETY DATA SHEET**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

**SPROUT NIP**

SUPERSEDES: 07/23/2012

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

**Product Name** SPROUT NIP

**Other means of identification**

**Product Code** PST-0073

**UN/ID no** 1993

**Synonyms** None

**Registration Number(s)** 34704-613

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Potato Sprout Inhibitor.

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

**Emergency telephone number**

**Company Phone Number** 1-888-LPI-CUST (574-2878)

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

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1A - (H350)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Flammable liquids	Category 3 - (H226)

**Label elements**



**Signal word**

**DANGER**

**Hazard statements**

H319 - Causes serious eye irritation

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H226 - Flammable liquid and vapor



## SAFETY DATA SHEET

SDS REVISIONS: ALL SECTIONS    DATE OF ISSUE: 02/01/2019

**SPROUT NIP**  
SUPERSEDES: 07/23/2012

**Precautionary Statements - Prevention**

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P233 - Keep container tightly closed
- P240 - Ground/bond container and receiving equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P241 - Use explosion-proof electrical/ ventilating / lighting/ .? / equipment

**Precautionary Statements - Response**

- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308 + P313 - IF exposed or concerned: Get medical advice/attention
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

**Precautionary Statements - Storage**

- P405 - Store locked up
- P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

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

**Hazards not otherwise classified (HNOC)**

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Chlorpropham	101-21-3	15 - 40	Carc. 2 (H351) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	*
IPA-Anhydrous 2-Propanol	67-63-0	10 - 30	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.  
OSHA Hazard Communication 29 CFR 1910.1200



## SAFETY DATA SHEET

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SPROUT NIP

SUPERSEDES: 07/23/2012

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Get medical attention if symptoms occur.
<b>Eye contact</b>	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	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.
<b>Inhalation</b>	Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Remove all sources of ignition.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-866-944-8565 for emergency medical treatment information.

**Note to physicians** Treat symptomatically.

**Antidotes** No data available

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, dry chemical, or foam

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective equipment and precautions 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

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

**SPROUT NIP**

SUPERSEDES: 07/23/2012

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

#### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

**Incompatible materials** None known based on information supplied.



**SAFETY DATA SHEET**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

**SPROUT NIP**

SUPERSEDES: 07/23/2012

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Exposure Guidelines

Appropriate engineering controls

**Engineering Controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Tight sealing safety goggles.

**Skin and body protection**                Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection**                    Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.

**General Hygiene Considerations**        When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.



## SAFETY DATA SHEET

SPROUT NIP

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Pale yellow
Odor	Slight Corn Oil
Odor threshold	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>	
pH	6.7 (NEAT)	
Melting point / freezing point	No data available	
Boiling point	85.0 - 90.5 °C	
Flash point	24 °C / 76 °F (Tag Closed Cup)	
Evaporation rate	No data available	No data available
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	12.6	
Lower flammability limit:	2.6	
Vapor pressure	47.2 mmHg	@ 20 °C
Vapor density	No data available	
Specific Gravity	1.00 - 1.02 g/ml	
Water solubility	Emulsifies	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	

#### Other Information

VOC Content (%)	No data available
Density	8.34 - 8.51lbs/gal

**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.



## SAFETY DATA SHEET

SPROUT NIP

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible materials

None known based on information supplied.

#### Hazardous Decomposition Products

None known based on information supplied.



**SAFETY DATA SHEET**

**SPROUT NIP**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity of the formulated product:**

**Oral LD<sub>50</sub>** 4977 mg/kg > 2000 mg/kg > 5.06 mg/l (4-hr)

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Chlorpropham	= 1200 mg/kg ( Rat )		
IPA-Anhydrous 2-Propanol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
IPA-Anhydrous 2-Propanol 67-63-0		Category 2		

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chlorpropham 101-21-3	-	Group 3	-	-
IPA-Anhydrous 2-Propanol 67-63-0	-	Group 3	-	X

*IARC (International Agency for Research on Cancer)*

*Not classifiable as a human carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Eye damage/irritation, Respiratory system, Skin.

**Aspiration hazard** No information available.

**Information on likely routes of exposure**

**Product Information** No data available

**Inhalation** No data available.

**Eye contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.





**SAFETY DATA SHEET**

**SPROUT NIP**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
IPA-Anhydrous 2-Propanol 67-63-0	EC50 1000 mg/L 96 h Desmodesmus subspicatus EC50 1000 mg/L 72 h Desmodesmus subspicatus	LC50 9640 mg/L 96 h Pimephales promelas LC50 11130 mg/L 96 h Pimephales promelas LC50 1400000 µg/L 96 h Lepomis macrochirus	EC50 13299 mg/L 48 h Daphnia magna

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging**

Do not reuse container.

**14. TRANSPORT INFORMATION**

**DOT**

UN/ID no	1993
Proper shipping name	Flammable liquids, n.o.s. (Isopropanol, Chlorpropham)
U.S. Surface Freight Classification:	INHIBITORS, NOI, POTATO SPROUTING (NMFC 101690; CLASS: 60)
Hazard Class	3
Packing Group	II
Emergency Response Guide Number	128



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**SPROUT NIP**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

**15. REGULATORY INFORMATION**

<u><b>NFPA</b></u>	Health hazards 0	Flammability 3	Instability 0	<b>Physical and Chemical Properties -</b>	
<u><b>HMIS</b></u>	Health hazards 1	Flammability 3	Physical hazards 0		<b>Personal protection X</b>
	0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Severe

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
IPA-Anhydrous 2-Propanol - 67-63-0	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**US EPA Waste Number** D001

**U.S. EPA Label Information**

**EPA Registration Number** 34704-613

**EPA Statement**

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. Following is the hazard information as required on the pesticide label:

CAUTION

**Difference between SDS and EPA Pesticide label**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not take internally. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.



## SAFETY DATA SHEET

**SPROUT NIP**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 02/01/2019

SUPERSEDES: 07/23/2012

### 16. OTHER INFORMATION

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 02/01/2019

**Revision Date** 02/12/2019

**Revision Note**

All SDS sections updated

**SPROUT NIP** is a registered trademark of Loveland Products, Inc.

**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.

**End of Safety Data Sheet**