

SPUD GUARD 2 EC
SAFETY DATA SHEET

Complies with
OSHA Hazard Communication Standard 29 CFR 1910.1200

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Label Name: SPUD GUARD 2 EC
Chlorpropham* (Isopropyl N-[3-chlorophenyl] carbamate)
101-21-3

1.2 Use of the substance: Potato sprout inhibition

1.3 Details of the supplier of the Safety Data Sheet
Company Identification: Pin/Nip, a division of 1,4GROUP, Inc.
PO Box 860
Meridian, ID 83680-0860

1.4 Emergency telephone: Transportation: 1-800-633-8253 (PERS)
Other Emergencies: 208-887-9766 (1,4GROUP, Inc.)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 Classification according to GHS guidance and 29 CFR 1910.1200 Appendix A and B
Eye Irritation 2B

2.2 Label elements

2.2.1 Labelling according to US 29 CFR 1910.1200 and GHS

Hazard Pictograms: None

Signal word: Warning

Hazard statements: Causes eye irritation

Precautionary statements: Prevention:
Wash exposed areas thoroughly after handling

Response:
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.

2.3 Unclassified hazards: None known

2.4 Percentage of ingredients with unknown toxicity: 0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS number	EC number	Weight %
Chlorpropham	101-21-3	202-925-7	24.65%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water. Get medical aid.

Eye contact: Hold eyelids open and flush with a steady gentle stream of water for at least 15 minutes. If wearing contact lenses, after the first 5 minutes remove them and then continue rinsing. Get medical attention.

Ingestion: Call a poison control center or physician for treatment advice. Do not induce vomiting or give anything by mouth to an unconscious person. If conscious, promptly drink a large quantity of milk, egg whites, or gelatin. If these are unavailable, drink a large volume of water.

4.2 Most important symptoms and effects, both acute and delayed: Causes eye irritation.

4.3 Immediate medical attention required: Symptomatic treatment is advised. There are no medical conditions that are known to be aggravated by exposure to this product. No immediate medical attention required if exposed.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media: Water, foam, carbon dioxide, or other extinguishing agent.

5.2 Fire Fighting Procedures: Prevent human exposure to fire, smoke, vapors and products of combustion. Wear full-face, self-contained breathing apparatus and impervious protective clothing. If possible, move containers from fire area. Keep non-leaking containers cool with water fog or spray to prevent rupture from excessive heat.

NFPA Hazard Rating

H = 1

F = 0

R = 0

O = None

HMIS Hazard Rating

H = 1

F = 0

R = 0

PP = F

H = Health; F = Flammability; R = Reactivity; O = Other Hazard;

PP = Personal Protective Equipment

- 5.3 Specific hazards arising from fire: Product can decompose under fire conditions to form toxic gases.
- 5.4 Special fire-fighting procedures: As in any fire, prevent exposure to smoke, fumes, and products of combustion. Use appropriate equipment to protect personnel from bursting containers. Evacuate non-essential personnel.
- 5.5 Protective equipment for fire fighters: Fire fighter should wear full face, self-contained breathing apparatus and impervious clothing.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Waste Disposal: Pesticide wastes are toxic. Improper disposal of a pesticide, spray mixture or rinsate is a violation of federal and state Law. If such wastes cannot be disposed of by application according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Section of the nearest EPA Regional Office for guidance. Do not allow waste to enter sewers or surface waters.
- 6.2 Container Disposal: *5 Gallon Containers:* Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allows by state and local authorities by burning. If burned, stay out of smoke. *30 Gallon Containers:* Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty

the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Keep containers closed when not in use. Use only approved equipment for transporting containers to avoid puncturing or rupturing. Wear appropriate protective equipment (see Section 8) when working with this product. During application procedure wear designated protective equipment to avoid inhalation, skin or eye contact.

7.2 Storage: Store away from foodstuffs and animal feed. Store containers in a cool, dry, well-ventilated area away from flammable, combustible or incompatible material such as strong oxidizers, strong bases and sources of heat or flame. Keep containers tightly closed when not in use. Precautions apply to emptied containers. Comply with all applicable regulations for storage, handling and application. Do not heat or cut empty container with a cutting torch. Keep product away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits: None established.

8.2 Respiratory: When exposure potential requires a higher level of protection, for example, when workers enter storage or treatment areas during or following application, that is, before the aerosol fog has settled or in emergency conditions, use a NIOSH-approved, positive-pressure, pressure demand air-supplied respirator and wear appropriate protective clothing.

8.3 Skin Protection: Skin contact with liquid spray must be prevented by the use of impervious clothing, chemical resistant gloves and footwear, each selected with regard to use conditions and exposure potential. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

8.4 Engineering Controls: This material when aerosolized is required to be handled under specific process conditions according to the product label instructions. Local exhaust ventilation may be needed to control emissions for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Amber
Odor:	Sweet vegetable oil
Odor threshold:	Not available
Boiling point:	Not available
Melting point:	Not available
Relative density:	Not available
Bulk density:	.96947 g/ml
Vapor pressure: (Air=1)	Not available
Flash point:	>235°F
Flammability:	Not available
Auto-ignition temp.:	Not available
Explosive properties:	Not available
Explosion limits:	Not available
Oxidizing properties:	Not available
Solubility (water):	Not available
Solubility (organic solvents):	Not available
pH-value:	Not available
Partition coefficient (n-octanol/water):	Not available
Relative Vapor Density (Air=1):	Not available
Evaporation rate:	Not available
Decomposition temperature	Not available

10. STABILITY AND REACTIVITY

10.1 Reactivity:	May react with strong oxidizing agents.
10.2 Chemical Stability:	Stable under most conditions, but avoid excessive heat.
10.3 Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
10.4 Conditions to Avoid:	Avoid excessive heat.
10.5 Incompatible Materials:	Avoid acids, alkalis and strong oxidizers.
10.6 Hazardous Decomposition:	Chloroaniline, oxides of nitrogen, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Oral LD ₅₀ , rats:	3707 mg/kg
Dermal LD ₅₀ , rabbits:	>2000 mg/kg

Dermal Irritation:	No signs of dermal irritation or corrosivity were observed in an acute rabbit dermal irritation test.
Eye Irritation:	Classified as a non-irritant to the eyes based on the results of an acute eye irritation study conducted in rabbits.
Skin Sensitization:	Negative
Carcinogenicity:	Not a carcinogen according to EPA, OSHA, ACGIH, or IARC. Chlorpropham did not cause cancer in two long-term animal carcinogenicity studies.

12. ECOLOGICAL INFORMATION

Oral LD ₅₀ (Mallard)	>2000 mg/kg
Dietary LC ₅₀ (Bobwhite)	>5620 ppm
LC ₅₀ (Bluegill)	6.8 mg/L
LC ₅₀ (Rainbow Trout)	5.7 mg/L
CE ₅₀ (Daphnia magna)	3.7 mg/L

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method:	Dispose of in accordance with label instructions. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal and State Law. If wastes cannot be disposed of by application according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste section of the nearest EPA Regional Office for guidance. Do not allow waste to enter sewers or surface waters.
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14. TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation:	Considered hazardous, but accepted in non-bulk quantities by ground and air according to DOT Title 49 regulations.
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Marine pollutant: Yes

15. REGULATORY INFORMATION

OSHA Status:	Chlorpropham is considered hazardous under the criteria of the Federal OSHA Hazard Communication standard, 29 CFR 1910.1200, based on irritation potential and target organ effects.
TSCA Status:	Not on TSCA Inventory; it is sold as an EPA-registered pesticide.

California Proposition 65: Not listed

16. OTHER INFORMATION

16.1 Date of preparation: June 17, 2015, March 31, 2016

16.2 Prepared for: Pin/Nip, a division of 1,4GROUP, Inc.