

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name 98A Potato Sprout Inhibitor
CAS # Mixture
Product Use Herbicide
Manufacturer Ag-Services Inc.
P.O.Box 1121
Mitchell, ON N0K 1N0 CA
Phone (519) 229-6669
Emergency Phone: 1-613-996-6666 (CANUTEC)

2. Hazards Identification

Emergency Overview WARNING
Eye and skin irritant.
May cause chronic toxic effects.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation Harmful if inhaled.
Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin. Liver. Kidney. Spleen.

Chronic effects Chronic exposure of laboratory animals has caused retarded growth, increased liver, kidney and spleen weights, and lesions of the spleen.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Chlorpropham	101-21-3	60 - 100

4. First Aid Measures

First aid procedures

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 Remove affected 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.

Ingestion 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Notes to physician Treat patient symptomatically.
Overexposure to chlorpropham may result in methemoglobinemia.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Alcohol foam. Carbon dioxide. Water.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Hydrogen chloride. Oxides of nitrogen. Chlorine. Phosgene.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	<p>Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.</p> <p>DO NOT ALLOW ENTRY into treated areas (to attend to fans, etc.) until two (2) hours of mechanical ventilation (fans should circulate outside air) or four (4) hours of passive ventilation (windows, vents and doors should be opened). If visible aerosol remains after these periods, do not enter until aerosol has settled.</p>
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	<p>Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.</p>

7. Handling and Storage

Handling	<p>PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Do not take internally. Avoid breathing vapour and mist. Protect eyes and mouth when working in a confined space. Only to be used by trained applicators under the supervision of AG-SERVICES INC. For good hygiene practice, chemical resistant gloves should be worn while handling pest control products.</p> <p>Wash hands and face before breaks and immediately after handling the product.</p>
Storage	<p>Keep out of reach of children.</p> <p>Avoid contamination of foodstuffs, feed, fertilizers, seeds, plants and pesticides. Store in original closed containers in a dry, warm location.</p>

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
Chlorpropham	ACGIH-TLV Not established
Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye/Face protection	Face shield or chemical goggles.

Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code. Use of protective coveralls and long sleeves is recommended.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid inhalation of dust.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Granular.
Colour	Amber
Form	Granules
Odour	Slight
Odour threshold	Not available
Physical state	Solid
pH	7.8 (10%)
Freezing point	Not available
Boiling point	149 °C (300.20 °F)
Pour point	Not available
Evaporation Rate	Not applicable
Flash point	175 °C (347.00 °F) TCC
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Specific gravity	1.17 (H ₂ O = 1)
Octanol/water coefficient	Not available
Solubility (H₂O)	Partially soluble
Viscosity	Not applicable

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Hydrogen chloride. Oxides of nitrogen. Chlorine. Phosgene when heated to decomposition.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Chlorpropham	32 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Chlorpropham	1200 mg/kg rat; 5000 mg/kg rabbit

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation.

Inhalation	Harmful if inhaled. Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Chronic exposure of laboratory animals has caused retarded growth, increased liver, kidney and spleen weights, and lesions of the spleen.
Carcinogenicity	Non-hazardous by WHMIS criteria.
IARC - Group 3 (Not Classifiable)	
Chlorpropham	101-21-3 Supplement 7 [1987]; Monograph 12 [1976]
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Low general toxicity to fish and wildlife.
Persistence and degradability	Not available
Bioaccumulation/accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Disposal instructions	Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)	Not regulated as dangerous goods.
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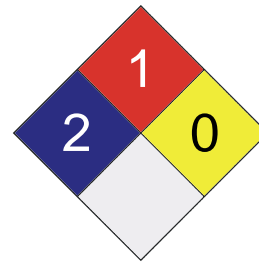
15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
WHMIS classification	Exempt - Registered product - (PCP 27402)	
Inventory Status		
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/	2
Flammability		1
Physical Hazard		0
Personal Protection		X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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15-May-2015

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021

Other Information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.