

SAFETY DATA SHEET

1. Identification

Product identifier	98A Potato Sprout Inhibitor
	REGISTRATION NO. 27402 PEST CONTROL PRODUCTS ACT
Recommended use	Potato Sprout Inhibitor
Recommended restrictions	Read the approved PCPA label prior to using or handling the pest control product.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	
Company name	Ag-Services Inc.
Address	P.O.Box 1121 Mitchell, ON N0K 1N0 Canada
Telephone	(519) 229-6669
e-mail	Not available.
Emergency phone number	1-613-996-6666 (CANUTEC)
Supplier	See above.

2. Hazard identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral Carcinogenicity Specific target organ toxicity following repeated exposure	Category 4 Category 2 Category 2
Environmental hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.	
Response	IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Other hazards	None known.	
Supplemental information	Classification in accordance with Canada WHMIS 2015 regulation.	

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.
Exempt - Registered product - (PCP 27402).
Refer to product label for further information.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Chlorpropham		101-21-3	98
Composition comments	Not applicable to PCP products. Refer to product label for active ingredient content.		

4. First-aid measures

Inhalation	Move 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.
Skin contact	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
Eye contact	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.
Ingestion	If swallowed, call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Symptoms may include stomach distress, nausea or vomiting. Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically. Overexposure to chlorpropham may result in methemoglobinemia. Symptoms may be delayed.
General information	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. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.
	Never give anything by mouth to an unconscious person. Remove victim to a safe and uncontaminated area. Seek medical attention immediately if toxicity/irritation/etc. persists or is severe. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

NOTICE TO USER This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical. Alcohol foam. Carbon dioxide. Water spray.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of nitrogen. Hydrogen chloride. Chlorine gas. Phosgene. Oxides of carbon.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch or walk through damaged containers or spilled material, unless wearing appropriate protective clothing.
	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.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling	Avoid contamination of foodstuffs, feed, fertilizers, seeds, plants and pesticides. Store in original closed containers in a dry, warm location. Keep container closed when not in use. Avoid contact with eyes and skin. Avoid breathing dust. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. This product inhibits germination and plant growth. Store away from seed potatoes, fertilizers, seeds, plants and pesticides.

8. Exposure controls/Personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	This material does not have established exposure limits.
Appropriate engineering controls	A shield should be constructed around the spray table/conveyor belt to prevent spray mist from drifting.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Face shield or chemical goggles.
Skin protection	
Hand protection	Chemical resistant gloves.
Other	For mixing and loading, wear cotton coveralls.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid inhalation of dust.
Thermal hazards	Not available.
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. When using do not eat or drink.

9. Physical and chemical properties

Appearance	Granular.
Physical state	Solid.
Form	Granules
Colour	Amber
Odour	Slight
Odour threshold	Not available.
pH	7.8 (10%)
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	175.0 °C (347.0 °F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available.
Solubility(ies)	
Solubility (Water)	Partially soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available.
Viscosity	Not available.

Other information**Specific gravity**

1 @ 24°C

10. Stability and reactivity

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

11. Toxicological information**Information on likely routes of exposure**

Inhalation	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stomach distress, nausea or vomiting. Direct contact with skin may cause irritation.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.
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Components	Species	Test results
Chlorpropham (CAS 101-21-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	32 mg/l/4h
<i>Oral</i>		
LD50	Chicken	> 5000 mg/kg
	Rabbit	5000 mg/kg
	Rat	1200 mg/kg, Sigma Aldrich
Skin corrosion/irritation	Not available.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Not available.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitisation		
Respiratory sensitisation	Not available.	
Skin sensitisation	Not available.	
Germ cell mutagenicity	Non-hazardous by WHMIS criteria.	
Carcinogenicity	See below.	

IARC Monographs. Overall Evaluation of Carcinogenicity

Chlorpropham (CAS 101-21-3)

Volume 12, Supplement 7 - 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not available.
Chronic effects	Overexposure to chlorpropham may result in methemoglobinemia.
Further information	Not available.

12. Ecological information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns. Low general toxicity to fish and wildlife.
Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Mobility in general	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.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

14. Transport information

General	Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.
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Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	Chlorpropham
Hazard class	9
Packing group	III

TDG



15. Regulatory information

Canadian federal regulations

Exempt - Registered product - (PEST CONTROL PRODUCTS ACT: REGISTRATION NO. 27402). This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Read the approved PCPA label prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

WARNING : EYE AND SKIN IRRITANT

READ THE LABEL BEFORE USING.

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. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca.

TOXICOLOGICAL INFORMATION: Treat symptomatically. Overexposure to chlorpropham may result in methemoglobinemia.

ENVIRONMENTAL PRECAUTIONS: Low general toxicity to fish and wildlife

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

WHMIS classification

Exempt - Registered product - (PCP 27402)

Inventory status

Country(s) or region

Canada

Canada

Inventory Name

Domestic Substances List (DSL)

On Inventory (Yes/No)*

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

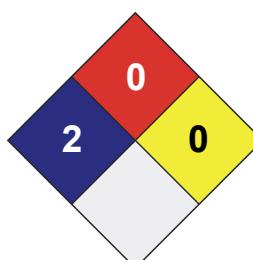
No

No

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X



Issue date

24-April-2017

Revision date

24-April-2017

Version No.

01

Other information

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

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. The above SDS reflects the latest information on file with respect to hazards, properties and handling of this product. No warranty however, expressed or implied, is made with regard to the use of this information.

Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021