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| Infosafe No™ 3NV0P | Issue Date : July 2017 | ISSUED by NUFARM |
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 Product Name **Tato-Pellets Potato Stop Sprout**

Classified as hazardous

## 1. Identification

|  |   |
|--|---|
| <b>GHS Product Identifier</b>                                  | Tato-Pellets Potato Stop Sprout   |
| <b>Product Code</b>  | 5199  |
| <b>Company Name</b>  | NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  |
| <b>Address</b>   | 103-105 Pipe Road Laverton North<br>Victoria 3026 Australia   |
| <b>Telephone/Fax Number</b>                                    | Tel: +61 3 9282-1000<br>Fax: +61 3 9282-1001  |
| <b>Emergency phone number</b>                                  | 1800 033 498 (24hr Australia)   |
| <b>Recommended use of the chemical and restrictions on use</b> | This product is for vapour phase treatment of stored table potatoes to prevent sprouting as specified in the Directions for Use table.  |
| <b>Other Information</b>                                       | This Safety Data Sheet (SDS) describes an experimental substance. Full identification or hazard information may not be known. In the absence of this information, always take a precautionary approach to storage and handling. |

## 2. Hazard Identification

|   |   |
|---|---|
| <b>GHS classification of the substance/mixture</b>                                  | CA2 Carcinogenicity: Category 2<br>RE2 STOT Repeated Exposure Category 2  |
| <b>Signal Word (s)</b>  | WARNING   |
| <b>Hazard Statement (s)</b>   | H351 Suspected of causing cancer.<br>H373 May cause damage to organs through prolonged or repeated exposure.  |
| <b>General Precautionary Statement (s)</b>  | P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br>P103 Read label before use.                    |
| <b>Pictogram (s)</b>  | Health hazard,<br>The below pictogram is a GHS Hazard symbol for workplace use only.<br>See SECTION 14 for Dangerous Goods information.                             |
|  |   |
| <b>Precautionary statement – Prevention</b>   | P202 Do not handle until all safety precautions have been read and understood.<br>P281 Use personal protective equipment as required.<br>P260 Do not breathe dusts. |
| <b>Precautionary statement – Response</b>   | P308+P313 IF exposed or concerned: Get medical advice/attention.  |
| <b>Other Information</b>  | Poisons Schedule S5   |

## 3. Composition/information on ingredients

|                                  |              |            |                   |
|----------------------------------|--------------|------------|-------------------|
| <b>Chemical Characterization</b> | Solid        |            |                   |
| <b>Ingredients</b>               | <u>Name</u>  | <u>CAS</u> | <u>Proportion</u> |
|                                  | Chlorpropham | 101-21-3   | 980 g/Kg          |

## 4. First-aid measures

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.  |
| <b>Ingestion</b>  | Not a likely route of exposure.<br>If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient. |

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| <b>Skin</b>             | Rinse mouth thoroughly with water.<br>Seek medical advice if effects persist.  |
| <b>Eye contact</b>      | Remove contaminated clothing and launder before re-use.<br>Wash affected areas thoroughly with soap and water.<br>If irritation persists, seek medical advice. |
| <b>Advice to Doctor</b> | If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.<br>Seek medical advice.<br>Treat symptomatically.                |

## 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable extinguishing media</b>                   | Water fog, foam, carbon dioxide or dry chemical.  |
| <b>Hazards from Combustion Products</b>               | If involved in a major fire, could evolve oxides of nitrogen or carbon.                       |
| <b>Special Protective Equipment for fire fighters</b> | Breathable air apparatus must be worn when fighting a fire in which this product is involved. |
| <b>Other Information</b>                              | STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.   |

## 6. Accidental release measures

|   |  |
|---|--|
| <b>Spills &amp; Disposal</b>              | Recover the product by sweeping up or vacuuming without raising dust.                |
| <b>Clean-up Methods - Large Spillages</b> | Place damaged containers in recovery bins (if available) and return to manufacturer. |
| <b>Environmental Precautions</b>          | Prevent from entering drains, waterways or sewers.                                   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for Safe Handling</b>                                | If dusts are generated, it is advisable to wear a dust mask, refer Section 8.                            |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in the closed, original container in a cool, well ventilated area.<br>Do not store near oxidisers. |
| <b>Other Information</b>  | Always read the label and any attached leaflet before use.   |

## 8. Exposure controls/personal protection

|   |  |
|---|--|
| <b>Occupational exposure limit values</b> | No biological exposure limit allocated.<br>No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m <sup>3</sup> .   |
| <b>Appropriate engineering controls</b>   | Handle in well ventilated areas, generally natural ventilation is adequate.  |
| <b>Respiratory Protection</b>             | If dusts are present, wear a class P2 dust mask.   |
| <b>Personal Protective Equipment</b>      | When using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves and goggles and disposable dust face mask covering the mouth and nose. Re-entry Period - Do not allow entry into treated areas for 48 hours after treatment. When prior entry is necessary, wear all protective clothing, including respirator. |
| <b>Hygiene Measures</b>                   | After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.<br>Wash contaminated clothing before re-use.   |

## 9. Physical and chemical properties

|                      |                          |
|----------------------|--------------------------|
| <b>Form</b>          | Solid                    |
| <b>Appearance</b>    | Colourless to grey solid |
| <b>Melting Point</b> | 36-40°C                  |

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**Solubility in Water** Solubility 110mg/L

**Vapour Pressure** 24 mPa (20°C, chlorpropham)

**Partition Coefficient:** Kow Log P is 3.79 (pH4, 20°C)  
**n-octanol/water**

## 10. Stability and reactivity

**Incompatible Materials** Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.  
 Avoid contact of the concentrate with strong acids.

**Possibility of hazardous reactions** Keep away from strong oxidising agents.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. Toxicological Information

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.

**Acute Toxicity - Oral** LD50 (rat) 4200 mg/kg for chlorpropham

**Acute Toxicity - Dermal** LD50 (rat) >2000 mg/kg for chlorpropham

**Acute Toxicity - Inhalation** LC50 (rat) (aerosol) 0.5 mg/l

**Ingestion** The concentrate is of low toxicity if swallowed.  
 Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.  
 Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.

**Inhalation** Inhalation of dust may result in respiratory irritation.

**Skin** May irritate the skin.

**Eye** May irritate the eyes.

**Carcinogenicity** Chlorpropham has been assessed in animals and some data exists that chlorpropham is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.

**Other Information** The Australian Acceptable Daily Intake (ADI) for chlorpropham for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016).

## 12. Ecological information

**Persistence and degradability** Average field half life of chlorpropham is 25 days.

**Acute Toxicity - Fish** The following is data for the active ingredient, chlorpropham.  
 Harmful to fish. LC50 (48hr) for rainbow trout is 7.5 mg/l.  
 LC50 (96hr) for daphnia magna is 2.6 mg/l.

**Acute Toxicity - Daphnia**

**Acute Toxicity - Algae** EC50 for algae is 1 mg/l.

**Acute Toxicity - Other Organisms** The following data is for the active ingredient, chlorpropham.  
 LD50 for mallard duck is >2000 mg/kg  
 Not toxic to bees.

## 13. Disposal considerations

**Product Disposal** On site disposal of the concentrated product is not acceptable.  
 Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic

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**Container Disposal** collections of unwanted chemicals (ChemClear®).  
Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill.  
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.  
Empty containers and product should not be burnt.

## 14. Transport information

**Transport Information Storage and Transport** It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.  
Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**UN Number (Sea Transport)** For bulk shipments as Class 9, use UN 3077, HazChem code 2X 3077

**IMO Class/Packing Group** Class 9; Packing Group III

**IMO Marine Pollutant** Marine Pollutant

**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Chlorpropham)

## 15. Regulatory information

**Regulatory Information** Australia: WHS regulations (2011) - Schedule 11: classification not listed.

**Poisons Schedule** S5

**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 66862.

## 16. Other Information

**Date of preparation or last revision of SDS** 12/07/2017

**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The SDS was reviewed. Minor changes were made to the information and product has been rebranded.  
...End Of MSDS...

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