

Infosafe No™ 3NUSN Issue Date : June 2014 ISSUED by NUFARM

 Product Name **Maestro 200SC Insecticide**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** Maestro 200SC Insecticide  
**Product Code** 0734  
**Product Type** Group 2B Insecticide  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
 Victoria 3026 Australia  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
 Fax: +61 3 9282-1001  
**Emergency phone number** 1800 033 498 (24hr Australia)  
**Recommended use of the chemical and restrictions on use** For the control of various insect pests in brassicas, cotton, wine grapevines, potatoes and sugarcane as specified in the Directions for Use table on the label.  
**Other Information** This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. Hazard Identification

**GHS classification of the substance/mixture** OT4 Acute Toxicity - Oral: Category 4  
 GT/VT/IT 4 Acute Toxicity - Inhalation: Category 4  
 RE1 STOT Repeated Exposure Category 1  
**Signal Word (s)** DANGER  
**Hazard Statement (s)** H302 Harmful if swallowed.  
 H332 Harmful if inhaled.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
**General Precautionary Statement (s)** P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
**Pictogram (s)** Exclamation mark, Health hazard



**Precautionary statement - Prevention** P264 Wash hands and exposed skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P260 Do not breathe spray.  
**Precautionary statement - Response** P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 Rinse mouth.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
**Other Information** Poisons Schedule S6

## 3. Composition/information on ingredients

**Chemical Characterization** Liquid  
**Ingredients**

| Name         | CAS         | Proportion |
|--------------|-------------|------------|
| Fipronil     | 120068-37-3 | 200 g/L    |
| Paraffin Oil | 64742-54-7  | 10-30 %    |

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| Ingredients | <u>Name</u>  | <u>CAS</u> | <u>Proportion</u> |
|-------------|--|------------|-------------------|
|             | Other ingredients<br>(considered<br>non-hazardous) |            | Balance           |

#### 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>            | If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the local Poisons Information Centre. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.   |
| <b>Skin</b>                 | If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.  |
| <b>Eye contact</b>          | If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.<br>Seek medical advice immediately.  |
| <b>First Aid Facilities</b> | If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.   |
| <b>Advice to Doctor</b>     | Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring - due to slow elimination of the compound. |

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>                   | If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.                               |
| <b>Hazards from Combustion Products</b>               | If involved in a fire, the dehydrated components may emit oxides of carbon, nitrogen and sulphur and compounds of chlorine and fluorine. |
| <b>Special Protective Equipment for fire fighters</b> | Breathable air apparatus should be worn when fighting a fire in which this product is involved.  |
| <b>Specific hazards arising from the chemical</b>     | Considered low risk due to water content, however upon evaporation of water the product is combustible.                                  |
| <b>Other Information</b>                              | STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.  |

#### 6. Accidental release measures

|                              |   |
|------------------------------|---|
| <b>Spills &amp; Disposal</b> | Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).<br>Collect spilled material and waste in sealable open-top type containers for disposal. |
|------------------------------|---|

#### 7. Handling and storage

|   |  |
|---|--|
| <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 for prolonged periods in direct sunlight. |
| <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 exposure standards have been set for this product or the active ingredients. |
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|---|---|
| <b>Appropriate engineering controls</b> | Use in a well ventilated area only.   |
| <b>Personal Protective Equipment</b>    | When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.<br>Re-entry period: Do not enter treated area until spray has dried. |
| <b>Hygiene Measures</b>                 | After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.<br>After each day's use, wash contaminated clothing and safety equipment.   |

## 9. Physical and chemical properties

|                                  |                                 |
|----------------------------------|---------------------------------|
| <b>Form</b>                      | Liquid                          |
| <b>Appearance</b>                | Light beige coloured liquid.    |
| <b>Solubility in Water</b>       | Disperses in water.             |
| <b>Specific Gravity</b>          | 0.99 - 1.08                     |
| <b>pH</b>                        | 6 - 7                           |
| <b>Vapour Pressure</b>           | $3.7 \times 10^{-4}$ mPa @ 25°C |
| <b>Flammability</b>              | Not flammable                   |
| <b>Auto-Ignition Temperature</b> | 410°C                           |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | Keep away from strong oxidising agents.   |
| <b>Hazardous Polymerization</b>           | Hazardous polymerisation is not possible. |

## 11. Toxicological Information

|                                      |   |
|--------------------------------------|---|
| <b>Acute Toxicity - Oral</b>         | LD50 (rat) 1099 mg/kg for the formulated product  |
| <b>Acute Toxicity - Dermal</b>       | LD50 (rabbit) 2493 mg/kg for the formulated product   |
| <b>Acute Toxicity - Inhalation</b>   | LC50 (rat) (4hr) 1.07 mg/l for the formulated product   |
| <b>Ingestion</b>                     | Possible symptoms of exposure include: headache, nausea, dizziness and weakness.<br>Ingestion of large quantities of the concentrate may result in convulsions.   |
| <b>Inhalation</b>                    | Breathing in high concentrations of aerosols of this material may cause headache, nausea, dizziness and weakness.   |
| <b>Skin</b>                          | Not a skin irritant and not harmful by dermal exposure.   |
| <b>Eye</b>                           | The concentrate will cause severe irritation and possible damage unless washed off immediately.   |
| <b>Skin Sensitisation</b>            | Product is not a skin sensitiser.   |
| <b>Carcinogenicity</b>               | Data indicates no carcinogenic effects.   |
| <b>Reproductive Toxicity</b>         | Data indicates no reproductive effects.   |
| <b>Serious eye damage/irritation</b> | The product is an eye irritant.   |
| <b>Mutagenicity</b>                  | Data indicates no mutagenic effects.  |
| <b>Skin corrosion/irritation</b>     | Mild skin irritant.   |
| <b>Other Information</b>             | The Australian Acceptable Daily Intake (ADI) for fipronil for a human is 0.0002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.02 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most |

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sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', September 2013).

## 12. Ecological information

|   |  |
|---|--|
| <b>Known Harmful Effects on the Environment</b> | The product is a marine pollutant for sea transport.   |
| <b>Other Precautions</b>                        | Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.<br>Do not spray on vegetation where honeybees are foraging.<br>Spray drift can cause damage, read the label for more information. |
| <b>Environmental Protection</b>                 |  |
| <b>Acute Toxicity - Fish</b>                    | The following is data for the active ingredient, fipronil.<br>LC50 (96hr) for bluegill sunfish is 0.085 mg/l.<br>LC50 (96hr) for rainbow trout is 0.248 mg/l.<br>LC50 (96hr) for european carp is 0.430 mg/l.                                    |
| <b>Acute Toxicity - Daphnia</b>                 | LC50 (48hr) for daphnia is 0.19 mg/l for fipronil.   |
| <b>Acute Toxicity - Algae</b>                   | EC50 for (72hr) Scenedesmus subspicatus is 0.068 mg/l.   |
| <b>Acute Toxicity - Other Organisms</b>         | The following data is for the active ingredient, fipronil.<br>LD50 for mallard duck is 5000 mg/kg<br>LD50 for bobwhite quail is 48 mg/kg<br>Highly toxic to bees both by direct contact or by ingestion.   |

## 13. Disposal considerations

|                           |   |
|---------------------------|---|
| <b>Product Disposal</b>   | On site disposal of the concentrated product is not acceptable.<br>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 collections of unwanted chemicals (ChemClear®).   |
| <b>Container Disposal</b> | Do not use this container for any other purpose.<br>Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.<br>Wash outside of container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.<br>If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.<br>DO NOT burn empty containers or product. This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. |

## 14. Transport information

|                                  |   |
|----------------------------------|---|
| <b>Storage and Transport</b>     | 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. |
| <b>UN Number (Sea Transport)</b> | For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.<br>3082  |
| <b>IMO Class/Packing Group</b>   | Class 9   |
| <b>IMO Marine Pollutant</b>      | Marine Pollutant  |

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| <b>IMO Proper Shipping Name</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(contains Fipronil) |
|---------------------------------|--|

## 15. Regulatory information

|                                  |  |
|----------------------------------|--|
| <b>Poisons Schedule</b>          | S6   |
| <b>Packaging &amp; Labelling</b> | POISON<br>KEEP OUT OF REACH OF CHILDREN<br>READ SAFETY DIRECTIONS BEFORE OPENING OR USING  |
| <b>Other Information</b>         | This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69919. |

## 16. Other Information

|  |  |
|--|--|
| <b>Date of preparation or last revision of SDS</b> | 11/06/2014   |
| <b>Contact Person/Point</b>                        | Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000<br>After Hours: Shift Supervisor Phone: 1800 033 498 |
| <b>Revisions Highlighted</b>                       | First Issue<br>...End Of MSDS...   |

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