



Infosafe No™ 3NU3I Issue Date :February 2010 ISSUED by NUFARM CS: 1.4.21

Product Name **REGENT® 200SC Insecticide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** REGENT® 200SC Insecticide  
**Product Code** 1220  
**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  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
Fax: +61 3 9282-1001  
**Recommended Use** For the control of various insect pests in asparagus, bananas, brassicas, cotton, forestry, ginger, wine grapevines, mushrooms, pasture, potatoes, sorghum, sugarcane and swede as specified in the Directions for Use table on the label.  
**Other Information** This MSDS 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. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R22 Harmful if swallowed.  
R23 Toxic by inhalation.  
R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.  
**Safety Phrase(s)** S1/2 Keep locked up and out of reach of children.  
S13 Keep away from food, drink and animal feeding stuffs.  
S36 Wear suitable protective clothing.  
S45 In case of accident or if you feel unwell seek medical advice immediately  
S63 In case of accident by inhalation, remove casualty to fresh air and keep at rest.  
**Other Information** Poisons Schedule S6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Fipronil	120068-37-3	200 g/L
	Vegetable Oil		30-60 %
	Water		10-30 %
	Dispersants	N/A	0-10 %

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, seek medical advice.  
**Ingestion** 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.  
The above first aid instructions are mandated by the Commonwealth Department of Health and Ageing via the National Drugs and Poisons Schedule. These

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instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 15ml or one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.

**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

**Advice to Doctor** Seek medical advice immediately. 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

**Suitable Extinguishing Media** If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

**Hazards from Combustion Products** If involved in a fire, the dehydrated components may emit oxides of carbon, nitrogen and sulphur and compounds of chlorine and fluorine.

**Special Protective Equipment for fire fighters** Breathable air apparatus should be worn when fighting a fire in which this product is involved.

**Specific Hazards** Considered low risk due to water content, however upon evaporation of water the product is combustible.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage** Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** No exposure standards have been set for this product or the active ingredients.

**Engineering Controls** Use in a well ventilated area only.

**Personal Protective Equipment** 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. Re-entry period: Do not enter treated area until spray has dried.

**Hygiene Measures** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Liquid

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<b>Appearance</b>	Viscous cream to yellow suspension
<b>Odour</b>	Slight vegetable oil odour
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.05 - 1.07
<b>pH Value</b>	7 - 9 (1% in water)
<b>Vapour Pressure</b>	3.7 x 10 <sup>-4</sup> 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>Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Breathing in high concentrations of aerosols of this material may cause headache, nausea, dizziness and weakness.
<b>Ingestion</b>	Possible symptoms of exposure include: headache, nausea, dizziness and weakness. Ingestion of large quantities of the concentrate may result in convulsions.
<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>Reproductive Toxicity</b>	Data indicates no reproductive effects.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<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>Eye Irritation</b>	The product is an eye irritant.
<b>Skin Irritation</b>	Mild skin irritant.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<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 sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

## 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. Do not spray on vegetation where honeybees are foraging.
<b>Environ. Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, fipronil. LC50 (96hr) for bluegill sunfish is 0.085 mg/l.

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**Acute Toxicity - Daphnia** LC50 (96hr) for rainbow trout is 0.248 mg/l.  
LC50 (96hr) for european carp is 0.430 mg/l.  
LC50 (48hr) for daphnia is 0.19 mg/l for fipronil.

**Acute Toxicity - Algae** EC50 for (72hr) Scenedesmus subspicatus is 0.068 mg/l.

**Acute Toxicity - Other Organisms** The following data is for the active ingredient, fipronil.  
LD50 for mallard duck is 5000 mg/kg  
LD50 for bobwhite quail is 48 mg/kg  
Highly toxic to bees both by direct contact or by ingestion.

### 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 collections of unwanted chemicals (ChemClear®).

**Container Disposal** Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority 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

**Storage and Transport** 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 3082, HazChem code 2Z. 3082

**IMO Class/Packing Group** Class 9

**IMO Marine Pollutant** Marine Pollutant

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

### 15. REGULATORY INFORMATION

**Poisons Schedule** S6

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

**Hazard Category** Toxic

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

### 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** Revised 01/02/2010



# Material Safety Data Sheet

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<b>Contact</b>	Normal Hours: Mr Volker Maier	Phone: +61 3 9282 1000
<b>Person/Point</b>	After Hours: Shift Supervisor	Phone: 1800 033 498
<b>Revisions</b>	The MSDS was reviewed. Various changes were made to the information.	
<b>Highlighted</b>	Minor changes made in line with the label.	
<b>Other Information</b>	Product is now a type 2B instecticide and hazchem code of 2Z applies.	
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	...End Of MSDS...	

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