



# Material Safety Data Sheet

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Infosafe No. 3NU3I Issue Date: June 2004 ISSUED by NUFARM

Product Name: **REGENT® 200SC Insecticide**

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** REGENT® 200SC Insecticide  
**Product Code** 1220  
**Product Use** For the control of various insect pests in bananas, brassicas, cotton, mushrooms, pasture, potatoes, sorghum and sugarcane as specified in the directions for use table.  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 24hr 1800 033 498  
**Telephone/Telex Number** Tel: (03) 9282-1000 Fax: (03) 9282-1001  
**Product Type** Group 2C Insecticide  
**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. COMPOSITION/INFORMATION ON INGREDIENTS

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

## 3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed.  
Risk of serious damage to eyes.

**Other Information** Poisons Schedule 6

## 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 Aged Care via the National Drugs and Poisons Schedule. These 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.  
Seek medical advice immediately.



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**Advice to Doctor** 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

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

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

**Hazardous** If involved in a fire, the dehydrated components may emit oxides of carbon,

**Combustion Products** nitrogen and sulphur and compounds of chlorine and fluorine.

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

## 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

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

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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

**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.

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

**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

**Appearance** Viscous cream to yellow suspension

**Odour** Slight vegetable oil odour

**Solubility in Water** Disperses in water.

**Specific Gravity (H<sub>2</sub>O=1)** 1.05 - 1.07

**pH Value** 7 - 9 (1% in water)

**Vapour Pressure** 3.7 x 10<sup>-4</sup> mPa @ 25°C

**Flammability** Not flammable

**Ignition Temperature** 410°C

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.



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

**Polymerization**

**Hazardous Reaction** Keep away from strong oxidising agents.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** Breathing in high concentrations of vapours or aerosols of this material may cause headache, nausea dizziness and weakness.

**Ingestion** Possible symptoms of exposure include: headache, nausea, dizziness and weakness. Ingestion of large quantities of the concentrate may result in convulsions.

**Skin** Not a skin irritant and not harmful by dermal exposure.

**Eye** The concentrate will cause severe irritation and possible damage unless washed off immediately.

**Reproductive Toxicity** Data indicates no reproductive effects.

**Mutagenicity** Data indicates no mutagenic effects.

**Carcinogenicity** Data indicates no carcinogenic effects.

**Acute Toxicity - Oral** LD50 (rat) 1099 mg/kg for the formulated product

**Acute Toxicity - Dermal** LD50 (rabbit) 2493 mg/kg for the formulated product

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) 1.07 mg/l for the formulated product

**Eye Irritation** The product is an eye irritant.

**Skin Irritation** Mild skin irritant.

**Skin Sensitisation** Product is not a skin sensitiser.

**Other Information** 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, 'ADI List', TGA, August 2003).

## 12. ECOLOGICAL INFORMATION

**Known Harmful Effects on the Environment** The product is a marine pollutant for sea transport.

**Other Precautions** 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.

**Acute Toxicity - Fish** The following is data for the active ingredient, fipronil.

LC50 (96 hr) for bluegill sunfish is 0.085 mg/l.

LC50 (96 hr) for rainbow trout is 0.248 mg/l.

LC50 (96 hr) for european carp is 0.430 mg/l.

**Acute Toxicity - Daphnia** LC50 (48 hr) for daphnia is 0.19 mg/l for fipronil.

**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 (ChemCollect).



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**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 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

**U.N. Number** None Allocated  
**DG Class** None Allocated  
**Hazchem Code** None Allocated  
**Packing Group** None Allocated  
**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**UN Number (Sea Transport)** 3082  
**IMO Class/Packing Group** Class 9  
**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Fipronil)

## 15. REGULATORY INFORMATION

**Risk Phrase** R20/22 Harmful by inhalation and if swallowed.  
R41 Risk of serious damage to eyes.  
**Safety Phrase** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
**Poisons Schedule** S6  
**Hazard Category** Harmful, Irritant  
**Packaging & Labelling** POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

© Registered trademark of BASF  
**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions Highlighted** First Issue  
...End Of MSDS...