

# MATERIAL SAFETY DATA SHEET

## Confidor® Garden Insecticide

Date of Issue: April 19<sup>th</sup>, 2007

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Product name:** Confidor® Garden Insecticide  
**Other names:** None  
**Product code:** 20437  
**Recommended use:** Home garden insecticide for the control of insect pests  
**Supplier:** Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd  
ABN 87 000 226 022  
**Address:** 391 - 393 Tooronga Road, East Hawthorn  
Victoria 3123, Australia  
**Telephone:** (03) 9248 6888  
**Facsimile:** (03) 9248 6800  
**Website:** [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
**Contact:** Technical Manager (03) 9248 6888  
**Emergency Telephone Number:** 1800 033 111 – Orica SH&E Shared Services

### 2. HAZARDS IDENTIFICATION

#### NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Not flammable.

**Hazard designation:** Not hazardous according to criteria of NOHSC  
**Risk phrases:** Not applicable  
**Safety phrases:** Not applicable  
**ADG classification:** Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**SUSDP classification:** Exempt

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Imidacloprid	[138261-41-3]	50
Other ingredients (non-hazardous)		950

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### 4. FIRST AID MEASURES

**If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.**

<b>Inhalation:</b>	Presentation as a granule makes inhalation unlikely. Inhalation of granules would present a choking hazard.
<b>Skin contact:</b>	Remove any contaminated clothing and wash skin thoroughly with soap and water.
<b>Eye contact:</b>	Irrigate eyes immediately with clean water for 15 minutes.
<b>Ingestion:</b>	Give plenty of water to drink. Never give anything by mouth to an unconscious person.
<b>First Aid Facilities:</b>	Provide washing facilities in the workplace.
<b>Symptoms:</b>	Symptoms of intoxication that may arise if the product is mishandled include nausea, abdominal pain and diarrhoea. Muscular cramps, apathetic state, depressed muscular tone, respiratory disturbance and trembling are also possible in severe cases of poisoning.
<b>Medical attention:</b>	<u>Treatment</u> Basic aid, decontamination, symptomatic treatment. <u>Note for physicians</u> Check blood pressure and pulse rate frequently since bradycardia and hypotension are possible. Provide supportive measures for respiratory and cardiac function. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastro-lavage, saline laxatives). No specific antidote known. Contraindications: Absorption promoting agents such as alcoholic beverages and milk. Oils and fats are of no special significance due to the low liposolubility of the active ingredient.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Sprayed water jet, foam, extinguishing powder, carbon dioxide, and sand
<b>Hazards from combustion products:</b>	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated. Do not breathe fumes.
<b>Precautions for fire fighters:</b>	Fight fire in the early stages if safe to do so. Wear respiratory protection. Well ventilated areas: wear full face mask with combination filter eg., ABEK-P2 (offers no protection from carbon monoxide). Enclosed premises: wear respirator with independent air supply. Contain firefighting water. If at all possible do not allow firefighting water to enter drains and waterways.

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### 6. ACCIDENTAL RELEASE MEASURES

Prevent spill from spreading or entering waterways or drains. Sweep up spilt material and place in a sealable container for disposal. Do not smoke, eat or drink during the clean-up operation.

### 7. HANDLING AND STORAGE

**Handling:** Keep out of reach of children.

**Storage:** Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. Do not store near any material intended for use or consumption by humans or animals.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:** NOHSC exposure standards have not been assigned for imidacloprid.

**Engineering controls:** Not applicable

**Personal Protective Equipment:** Personal Protective Measures:  
Avoid contact with eyes, skin and clothing during mixing and spraying operations. Do not inhale spray mist.  
Personal Protective Equipment: not required  
Industrial Hygiene:  
If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash the area with soap and water. 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 with detergent and water.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellow water-dispersible granule

**Odour:** Slight characteristic odour

**Vapour pressure:** Not available

**Vapour density:** Not available

**Boiling point:** Not available

**Freezing/melting point:** Not available

**Solubility:** Dispersible

**Density:** Not available

**pH:** Not available

**Flash Point:** Not available

**Flammability** Not available

**(explosive) limits:**

**Auto-ignition temperature:** Not available

**Octanol/water partition coefficient:** Not available

**Formulation:** Water dispersible granule

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### 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Hazardous polymerisation:</b>	Hazardous polymerization is not known to occur.
<b>Conditions to avoid:</b>	Not available
<b>Incompatible materials:</b>	Not available
<b>Hazardous decomposition products:</b>	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	May be harmful if inhaled.
<b>Skin contact:</b>	Repeated exposure may cause irritation and allergic disorders.
<b>Eye contact:</b>	May be slightly irritating to the eyes.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Other:</b>	None

#### ANIMAL TOXICITY DATA – PRODUCT:

##### Acute:

<b>Oral toxicity:</b>	LD <sub>50</sub> rat: estimated >5000 mg/kg i.e. practically non-toxic
<b>Dermal toxicity:</b>	LD <sub>50</sub> rat: >5000 mg/kg i.e. practically non-toxic
<b>Inhalation toxicity:</b>	LC <sub>50</sub> (4 h) rat: estimated >10000 mg/cubic metre i.e. practically non-toxic
<b>Skin irritation:</b>	Not irritating – rabbit
<b>Eye irritation:</b>	Not irritating – rabbit
<b>Sensitisation:</b>	Not available

##### Chronic:

Animal studies have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential for imidacloprid.

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### 12. ECOLOGICAL INFORMATION

Do NOT contaminate ponds, waterways or drains with the chemical or used containers.  
Do NOT spray any plants in flower while bees are foraging.

<b>Ecotoxicity:</b>	<u>Imidacloprid:</u> <i>Fish toxicity:</i> LC <sub>50</sub> : 237 mg/L (96 h); golden orfe ( <i>Leuciscus idus melanotis</i> ) LC <sub>50</sub> : 211 mg/L (96 h); rainbow trout ( <i>Oncorhynchus mykiss</i> ) <i>Aquatic invertebrate toxicity:</i> EC <sub>50</sub> : 85 mg/L (48 h) <i>Daphnia magna</i> <i>Algae toxicity:</i> EC <sub>50</sub> : > 100 mg/L (72 h); green alga ( <i>Pseudokirchneriella subcapitata</i> ) <i>Bacteria toxicity:</i> EC <sub>50</sub> : > 10000 mg/L; activated sludge (OECD 209) <i>Bird toxicity:</i> Acute oral LD <sub>50</sub> : 31 mg/kg; Japanese quail Acute oral LD <sub>50</sub> : 152 mg/kg; bobwhite quail
<b>Environmental fate, persistence and degradation:</b>	Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

### 13. DISPOSAL CONSIDERATIONS

- 1) After intended use:  
Dispose of empty container by wrapping in paper, placing in plastic bag and putting in garbage.
- 2) After spill or accident:  
Dispose of sealed containers at an approved local waste disposal site.

### 14. TRANSPORT INFORMATION

<b>UN number:</b>	Not applicable
<b>Proper shipping name:</b>	Not applicable
<b>Class and Subsidiary Risk:</b>	Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>Packing Group:</b>	Not applicable
<b>EPG:</b>	Not applicable
<b>Hazchem code:</b>	Not applicable
<b>Marine Pollutant:</b>	No

### 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 49395

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### 16. OTHER INFORMATION

**Trademark information:** Confidor® is a registered trademark of Bayer.

**Preparation information:** Replaces October 22<sup>nd</sup>, 2002 edition.  
Reason for update: Correction of imidacloprid CAS No., First Aid Measures, Firefighting Measures, Ecological Information.

**Data sources:** Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS