



## Initiator® Systemic Plant Insecticide and Fertiliser

Version 1 / AUS  
102000011047

1/9  
Revision Date: 26.10.2016  
Print Date: 26.10.2016

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Trade name** Initiator® Systemic Plant Insecticide and Fertiliser  
**Product code (UVP)** 06481345

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** Insecticide

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer Cropscience Pty Ltd  
ABN 87 000 226 022  
Level 1, 8 Redfern Road  
3123 Hawthorn East  
Victoria  
Australia

**Telephone** (03) 9248 6888

**Telefax** (03) 9248 6800

**Responsible Department** 1800 804 479 Technical Information Service

**Website** [www.environmentalscience.bayer.com.au](http://www.environmentalscience.bayer.com.au)

#### 1.4 Emergency telephone no.

**Emergency telephone no.** 1800 033 111 IXOM Operations Pty Ltd

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification in accordance with Australian GHS Regulation

Acute aquatic toxicity: Category 1  
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1  
H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to specific Australian legislation

No hazard label for supply/use required.

#### 2.3 Other hazards

No other hazards known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Imidacloprid 200g/kg  
Chemical nature Tablet (TB)



**Initiator® Systemic Plant Insecticide and Fertiliser**

2/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
Print Date: 26.10.2016

Chemical Name	CAS-No.	Concentration [%]
Imidacloprid	138261-41-3	20.00
Other ingredients (non-hazardous) to 100%		

**SECTION 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 Safety Data Sheet to the doctor.**

**4.1 Description of first aid measures**

- General advice** Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
- Skin contact** Wash off immediately with soap and plenty of water.
- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
- Ingestion** Call a physician or poison control center immediately. Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.)

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms** If large amounts are ingested, the following symptoms may occur:  
Vomiting, Dizziness, Abdominal pain, Nausea
- Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment** Treat symptomatically. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable** High volume water jet



**Initiator® Systemic Plant Insecticide and Fertiliser**

3/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
Print Date: 26.10.2016

<b>5.2 Special hazards arising from the substance or mixture</b>	In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)
<b>5.3 Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.  Whenever possible, contain fire-fighting water by diking area with sand or earth. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
<b>Hazchem Code</b>	2Z

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>Precautions</b>	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. When dealing with a spillage do not eat, drink or smoke.
<b>6.2 Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>6.3 Methods and materials for containment and cleaning up</b>	
<b>Methods for cleaning up</b>	Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>6.4 Reference to other sections</b>	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7. HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	
<b>Advice on safe handling</b>	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
<b>Advice on protection against fire and explosion</b>	No special precautions required.
<b>Hygiene measures</b>	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).



**Initiator® Systemic Plant Insecticide and Fertiliser**

4/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
Print Date: 26.10.2016

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Keep out of reach of children and animals.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	0.7 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**8.2 Exposure controls**

**Respiratory protection** Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 5 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

**General protective measures** In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.

**Engineering Controls**

**Advice on safe handling** No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.



## Initiator® Systemic Plant Insecticide and Fertiliser

Version 1 / AUS  
102000011047

5/9  
Revision Date: 26.10.2016  
Print Date: 26.10.2016

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Form</b>	tablet
<b>Colour</b>	beige to brown
<b>Odour</b>	weak, characteristic

**9.2 Other information** Further safety related physical-chemical data are not known.

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Heat, flames and sparks.

**10.5 Incompatible materials** Oxidizing agents

**10.6 Hazardous decomposition products** Thermal decomposition can lead to release of:  
Hydrogen chloride (HCl)  
Hydrogen cyanide (hydrocyanic acid)  
Carbon monoxide  
Nitrogen oxides (NOx)

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute oral toxicity** LD50 (Rat)  $\geq$  5,000 mg/kg

**Acute inhalation toxicity** During intended and foreseen applications, no respirable aerosol is formed.

**Acute dermal toxicity** LD50 (Rat)  $>$  2,000 mg/kg

**Skin irritation** No skin irritation (Rabbit)

**Eye irritation** No eye irritation (Rabbit)

**Sensitisation** Non-sensitizing. (Rabbit)  
OECD Test Guideline 429, local lymph node assay (LLNA)

#### Assessment mutagenicity

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity



## Initiator® Systemic Plant Insecticide and Fertiliser

Version 1 / AUS  
102000011047

6/9  
Revision Date: 26.10.2016  
Print Date: 26.10.2016

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

### Assessment toxicity to reproduction

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.

### Assessment developmental toxicity

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

### Assessment STOT Specific target organ toxicity – repeated exposure

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

Caution!

Harmful if swallowed or absorbed through skin., Avoid contact with skin, eyes and clothing.

Highly toxic to aquatic invertebrates., May cause long-term adverse effects in the aquatic environment.

### Early onset symptoms related to exposure

Refer to Section 4

### Delayed health effects from exposure

Refer to Section 11

### Exposure levels and health effects

Refer to Section 4

### Interactive effects

Not known

### When specific chemical data is not available

Not applicable

### Mixture of chemicals

Refer to Section 2.1

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

#### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 85 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l



**Initiator® Systemic Plant Insecticide and Fertiliser**

7/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
Print Date: 26.10.2016

	Exposure time: 24 h The value mentioned relates to the active ingredient imidacloprid.
<b>Chronic toxicity to aquatic invertebrates</b>	EC10 (Chironomus riparius (non-biting midge)): 2,09 µg/l Exposure time: 28 d The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to aquatic plants</b>	IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to bacteria</b>	EC50 (activated sludge) > 10,000 mg/l The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to other organisms</b>	LD50 (Coturnix japonica (Japanese quail)) 31 mg/kg The value mentioned relates to the active ingredient imidacloprid.

**12.2 Persistence and degradability**

<b>Biodegradability</b>	Not readily biodegradable. The value mentioned relates to the active ingredient imidacloprid.
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**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Not applicable for this mixture.
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**12.4 Mobility in soil**

<b>Mobility in soil</b>	Adsorbs on soil. The value mentioned relates to the active ingredient imidacloprid.
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**12.5 Other adverse effects**

<b>Additional ecological information</b>	No other effects to be mentioned.
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**SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage. DO NOT burn empty containers or product.

**SECTION 14. TRANSPORT INFORMATION**

**ADG**

UN number	<b>3077</b>
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)
Hazchem Code	2Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.



**Initiator® Systemic Plant Insecticide and Fertiliser**

8/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
Print Date: 26.10.2016

**IMDG**

UN number	<b>3077</b>
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)

**IATA**

UN number	<b>3077</b>
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE )

**SECTION 15. REGULATORY INFORMATION**

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994  
Australian Pesticides and Veterinary Medicines Authority approval number: 60391

**SUSMP classification (Poison Schedule)**

Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

**SECTION 16. OTHER INFORMATION**

**Trademark information** Initiator® is a registered trademark of the Bayer Group.

This SDS 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 SDS 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.

**Abbreviations and acronyms**

- ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE Acute toxicity estimate
- AU OEL Australia. OELs. (Adopted National Exposure Standards for Atmospheric





## Initiator® Systemic Plant Insecticide and Fertiliser

9/9

Version 1 / AUS  
102000011047

Revision Date: 26.10.2016  
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	Contaminants in the Occupational Environment)
CAS-Nr.	Chemical Abstracts Service number
CEILING	Ceiling Limit Value
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
OES BCS	OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SK-SEN	Skin sensitiser
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF SDS