

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

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.es.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

No hazard label for supply/use required.

2.3 Other hazards

No additional hazards known beside those mentioned.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

Imidacloprid 200g/kg

Tablet (TB)

Chemical name	CAS-No.	Concentration [%]
Imidacloprid	138261-41-3, 105827-	20.00
	78-9	
Copper(II)-sulphate pentahydrate	7758-99-8	> 0.25 - < 2.50
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. If symptoms

persist, call a physician.

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 Do NOT induce vomiting. Call a physician or poison control center

immediately. Rinse mouth.

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

Treat symptomatically. 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

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

5.2 Special hazards arising from the substance or mixture

In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

Further information 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.

Hazchem Code 2Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment. When dealing with a spillage do not

eat, drink or smoke.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective

authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Use mechanical handling equipment. Keep in suitable, closed

containers for disposal. Clean contaminated floors and objects

thoroughly, observing environmental regulations.

6.4 Reference to other

sections

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

7.1 Precautions for safe handling

Advice on safe handling
No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Hygiene measures 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

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

destroyed (burnt).

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/m3		OES BCS*
		(TWA)		

*OES BCS: Internal Bayer AG, Crop Science Division "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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. 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.

Material Nitrile rubber

Break through time > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

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.

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3/AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form tablet

Colour beige to brown

Odour weak, characteristic **Odour Threshold** No data available

No data available Hq

Melting point/range No data available

Boiling Point No data available Flash point No data available

Flammability No data available

Minimum ignition energy No data available

Self-accelarating

Auto-ignition temperature

No data available decomposition temperature

(SADT)

Upper explosion limit No data available Lower explosion limit No data available Vapour pressure No data available

Evaporation rate No data available Relative vapour density No data available No data available Relative density

Density No data available

Water solubility No data available

Partition coefficient: n-

octanol/water

Imidacloprid: log Pow: 0.57

copper sulphate: No data available

No data available

Viscosity, dynamic No data available Viscosity, kinematic No data available No data available **Oxidizing properties**

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

Explosivity No data available

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

SECTION 10. STABILITY AND REACTIVITY

10.1

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

Thermal decomposition can lead to release of:

decomposition products

Hydrogen cyanide (hydrocyanic acid)

Carbon monoxide
Nitrogen oxides (NOx)

Hydrogen chloride (HCI)

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) >= 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 corrosion/irritation No skin irritation (Rabbit)
Serious eye damage/eye No eye irritation (Rabbit)

irritation

Respiratory or skin Non-sensitizing. (Rabbit)

sensitisation 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.

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

Assessment carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice. copper sulphate: Based on available data, the classification criteria are not met.

Assessment toxicity to reproduction

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity. copper sulphate: Based on available data, the classification criteria are not met.

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. copper sulphate: This information is not available.

Assessment STOT Specific target organ toxicity - single exposure

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

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

Assessment STOT Specific target organ toxicity - repeated exposure

Imidacloprid did not cause specific target organ toxicity in experimental animal studies. copper sulphate: Based on available data, the classification criteria are not met.

Aspiration hazard

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

Information on likely routes of exposure

May be harmful if inhaled. May cause skin irritation. May cause eye irritation. Harmful if swallowed.

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

Further information

No further toxicological information is available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l

Exposure time: 96 h

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3/AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic

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

invertebrates

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid. EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l

Exposure time: 24 h

The value mentioned relates to the active ingredient imidacloprid. EC10 (Chironomus riparius (non-biting midge)): 2,09 μg/l

Chronic toxicity to aquatic

Exposure time: 28 d

invertebrates

The value mentioned relates to the active ingredient imidacloprid.

IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l Toxicity to aquatic plants

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to bacteria EC50 (activated sludge) > 10,000 mg/l

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to other organisms LD50 (Coturnix japonica (Japanese quail)) 31 mg/kg

The value mentioned relates to the active ingredient imidacloprid.

12.2 Persistence and degradability

Imidacloprid: Biodegradability

Not rapidly biodegradable

copper sulphate: No data available

Koc Imidacloprid: Koc: 225

copper sulphate:No data available

12.3 Bioaccumulative potential

Bioaccumulation Imidacloprid:

Does not bioaccumulate.

copper sulphate: No data available

12.4 Mobility in soil

Mobility in soil Adsorbs on soil.

The value mentioned relates to the active ingredient imidacloprid.

Imidacloprid: Moderately mobile in soils Mobility in soil

copper sulphate: No data available

12.5 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

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.



Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

SECTION 14. TRANSPORT INFORMATION

ADG

UN number 3077
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

AU01: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or

b) IBCs

IMDG

UN number 3077
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 3077
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.

Abbreviations and acronyms

Initiator® Systemic Plant Insecticide and Fertiliser

Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

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

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)
Inhibition concentration to x %

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: 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: Internal Bayer AG, Crop Science Division "Occupational Exposure

Standard"

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 notation: Absorption through the skin may be a significant source of

exposure.

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: 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

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.



Version 3 / AUS Revision Date: 12.04.2021 102000011047 Print Date: 12.04.2021

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.

Reason for Revision: The following sections have been revised: Section 2: Hazards

Identification. Section 11: Toxicological Information.

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