

Bug Killa Granular Garden Insecticide



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SAFETY DATA SHEET

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

RICHGRO GARDEN PRODUCTS

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PRODUCT NAME

RECOMMENDED USE:

Richgro Bug Lilla Granular Garden Insecticide
Insecticide for domestic garden use

SECTION 2 - HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA
NOT CLASSIFIED AS A DANGEROUS GOOD.
SCHEDULED POISON S5.

PHYSICAL HAZARDS: Not Classified

HEALTH HAZARDS: Not Classified

ENVIRONMENTAL HAZARDS: Hazardous to the aquatic environment

Label elements

GHS Signal Word: None

HAZARD STATEMENT:

None

PREVENTION

P102: Keep out of reach of children

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

RESPONSE

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

STORAGE

P402+P404: Store in a closed container, in a dry place.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Imidacloprid	138261-41-3	70g/kg
Inert fillers		balance

SECTION 4 - FIRST AID MEASURES

GENERAL INFORMATION: If in doubt, get medical attention promptly. Show this Safety Data Sheet to medical personnel. Product may be slightly irritating to the eyes and skin.

EYES: Hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention if irritation persists.

SKIN: Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

INGESTION: Rinse mouth out with water ensuring that mouth wash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting.

INHALATION: First aid is unlikely to be required as a result of exposure during any anticipated use. Product is a solid and does not generate significant dust in normal use.

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Additional Information:

First Aid Facilities: Not required.

Advice to Doctor: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Non-combustible granular solid. Extinguish fire using whatever is suitable for the primary cause of the fire.

HAZARDS FROM COMBUSTION PRODUCTS: This product is not combustible but may evolve toxic fumes if heated to decomposition.

PROTECTIVE EQUIPMENT: Fire fighters should wear self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Avoid skin or eye contact. Wear neoprene or nitrile gloves if necessary to prevent skin contact. See Section 8.

SPILLS: Sweep up and collect for disposal or reuse.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Avoid eye or skin contact. Wash hands thoroughly after use.

SAFE STORAGE PRECAUTIONS: Keep out of reach of children. No special storage precautions required but product life will be maximised if it is stored out of direct sunlight in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS: No exposure standard allocated to this product or any of its ingredients.

Exposure standards represent the airborne concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. The exposure standard can be of three forms; time-weighted average (TWA), peak, or short-term exposure limit (STEL).

BIOLOGICAL LIMIT VALUES: None allocated

ENGINEERING CONTROLS: Natural ventilation is adequate for all anticipated uses of this product. Local exhaust ventilation is not required for normal use.

PERSONAL PROTECTION: Requirements depend on working conditions, method of application and quantity of product in use. No special equipment is required for handling small quantities, but nitrile, neoprene, PVC or natural rubber gloves should be worn if there is any potential for skin contact.

Respiratory protection is unlikely to be required for normal use of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour: Light orange-brown, granular solid

Odour: Negligible

Boiling Point: Not available

Melting Point: Not available

Volatiles: Negligible

Vapour Pressure: Negligible

Vapour Density: Not applicable

Specific Gravity: 1.1

Water Solubility: Insoluble

pH: Not applicable

Volatility: Negligible

Evaporation Rate: Negligible.

Flash point: Non-combustible

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

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SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage

CONDITIONS TO AVOID: Do not place in exposed areas accessible to children or pets

INCOMPATIBLE MATERIALS: Avoid contact with oxidising agents

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve toxic fumes if heated to decomposition or burned.

HAZARDOUS REACTIONS: None known.

POLYMERISATION: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE - SWALLOWED: May be mildly irritating to mucous membranes.

ACUTE – EYE: May be mildly irritating.

ACUTE – SKIN: Thiamethoxam can be partially absorbed by skin contact and repeated or prolonged exposure might cause irritation

ACUTE – INHALED: No effects expected.

Imidacloprid

Acute oral toxicity LD50 mouse 150 mg/kg

Acute oral toxicity LD50 rat 450 mg/kg

Acute dermal toxicity rat >5000mg/Kg

CHRONIC HEALTH EFFECTS:

Not listed as a carcinogen by Safe Work Australia, the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the National Institute for Occupational Safety and Health (NIOSH), or the Occupational Health and Safety Administration (OSHA).

A 2-year feeding study in rats fed up to 1,800 ppm resulted in a NOEL of 100 ppm (5.7 mg/kg body weight in males and 7.6 mg/kg in females). Adverse effects included decreased body weight gain in females at 300 ppm, and increased thyroid lesions in males at 300 ppm and females at 900 ppm. A 1-year feeding study in dogs fed up to 2,500 ppm resulted in a NOEL of 1,250 ppm (41 mg/kg). Adverse effects included increased cholesterol levels in the blood, and some stress to the liver.

Reproductive Effects: A three generation reproduction study in rats fed up to 700 ppm Imidacloprid resulted in a NOEL of 100 ppm (equivalent to 8 mg/kg/day) based on decreased pup body weight observed at the 250 ppm dose level.

Teratogenic Effects: A developmental toxicity study in rats given doses up to 100 ppm by gavage on days 6 to 16 of gestation resulted in a NOEL of 30 mg/kg/day (based on skeletal abnormalities observed at the next highest dose tested of 100 ppm) (329). In a developmental toxicity study with rabbits given doses of Imidacloprid by gavage during days 6 through 19 of gestation, resulted in a NOEL of 24 mg/kg/day based on decreased body weight and skeletal abnormalities observed at 72 mg/kg/day (highest dose tested).

Mutagenic Effects: Imidacloprid may be weakly mutagenic.

SECTION 12 - ECOLOGICAL INFORMATION

Effects on Birds: Imidacloprid is toxic to some game birds. The LD₅₀ is 152 mg/kg for bobwhite quail, and 31 mg/kg in Japanese quail. In some studies, it was observed that birds learned to avoid Imidacloprid treated seeds after experiencing transitory gastrointestinal distress (retching) and ataxia (loss of coordination). It was concluded that the risk of dietary exposure to birds via treated seeds was minimal.

Effects on Aquatic Organisms: The toxicity of imidacloprid to fish is moderately low. The 96-hour LC₅₀ of Imidacloprid is 211 -280mg/l for a range of species. In tests with Daphnia, the 48-hour EC₅₀ was 85 mg/L. Products containing imidacloprid may be very toxic to aquatic invertebrates.

Effects on Other Animals (Nontarget species): Imidacloprid is highly toxic to bees if used as a foliar application, especially during flowering, but is not considered a hazard to bees when used as a seed treatment.

ENVIRONMENTAL FATE

Breakdown of Chemical in Soil and Groundwater: The half-life of imidacloprid in soil is 48-190 days, depending on the amount of ground cover (it breaks down faster in soils with plant ground cover than in fallow soils). Organic material aging may also affect the breakdown rate of imidacloprid.

Breakdown of Chemical in Surface Water: The half-life in water is much greater than 31 days at pH 5, 7 and 9. No other information was found.

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SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of small quantities and empty containers by wrapping with paper and putting in waste for landfill. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

SECTION 14 - TRANSPORT INFORMATION

This product is not a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), the International Maritime Dangerous Goods Code (IMDG) nor the International Air Transport Association (IATA) criteria.

UN Number: None allocated
Proper shipping name: None allocated
DG Class: None allocated
HazChem code: None allocated
Packing group: None allocated

SECTION 15 - REGULATORY INFORMATION

All ingredients in this formulation are listed in the Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme (NICNAS).

Schedule 5 Poison in accordance with the Standard for the Uniform Scheduling of Medicines and Poisons

SECTION 16 - OTHER INFORMATION

REFERENCES

1. National Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2011
2. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
3. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 7.6th Edition, 2018
4. Standard for the Uniform Scheduling of Medicines and Poisons No. 23, February 2019 and subsequent amendments

ABBREVIATIONS

BOD	Biological oxygen demand
CAS number	Chemical Abstracts Service Registry Number
EC50	Half maximal effective concentration
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
LDLo	Lowest documented lethal dose
LD50	Lethal Dose for 50% of test population (ingestion or skin contact)
LC50	Lethal Dose for 50% of test population (inhalation)
mmHg	Millimetres Mercury
NOEL	No observable effect level
UN Number	United Nations Number
TD	Toxic Dose

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