



AUD-AD-140-1534790 : رقم التسجيل
11-08-2020 : التاريخ

قطاع المجتمعات المستدامة
إدارة الشؤون البلدية

شهادة تسجيل مبيد كيميائي مقيد

مبيد افات زراعية (حشري)

تشهد وزارة التغير المناخي والبيئة بأن المبيد بالمواصفات التالية

الاسم التجاري للمبيد : DAVID GRAYS SYSTEMIC BUG KILLER
GRANULAR GARDEN INSECTICIDE

بلد التسجيل : استراليا

المواد الفعالة وتركيزها : IMIDACLOPRID 70g/kg

CAS RN : 138261-41-3

صورة المستحضر : Ready-To-Use Granules

حجم العبوة : جرام 500,1000,5000

بلد (التسجيل/المنشأ) والشركة المنتجة : استراليا - DAVID GRAY AND CO PTY LIMITED

الشركة المحلية المستوردة : شيروود الشرق الاوسط لتجارة المبيدات

تاريخ إصدار الشهادة : 11-08-2020 : صالحة حتى : 29-06-2021

ملاحظات : لا يوجد

وجد مطابقا لنظام تسجيل المبيدات المتبع لديها وقد أعطيت له هذه الشهادة بناء على ذلك.

ملاحظات :

- يعاد تقييم المبيد كل خمس سنوات حتى يتم تجديد هذه الشهادة بعد ذلك.
- تلغى هذه الشهادة في حالة شطب أو سحب المبيد من قبل المنظمات والهيئات العالمية المختصة في تسجيل المبيد أو ثبت للوزارة تدهور المبيد أثناء فترة صلاحيته تحت الظروف البيئية للدولة أو ثبت أن لديه آثار جانبية ضارة

سددت الرسوم 3054.05 درهم

رقم إيصال الشهادة : 200038714786

تاريخ إيصال الشهادة : 25-07-2020

مدير إدارة الشؤون البلدية

رمز التحقق : 153-4790



للتحقق من صحة بيانات هذا
المستند يرجى مسح الشيفرة
أو زيارة موقع الوزارة

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DAVID GRAYS

SYSTEMIC BUG KILLER

GRANULAR GARDEN INSECTICIDE

For lawns of parks and gardens, and sport and recreation zones

ديفيد جرايز

مبيد حبيبي جهازي

لحشرات وآفات الحدائق

لمروج المنتزهات والحدائق العامة ومناطق الرياضة والترفيه



Harmful
ضار

يحفظ بعيداً عن متناول الأطفال
اقرأ توجيهات السلامة قبل الفتح أو الاستخدام
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

رقم تسجيل المبيد بوزارة التغير المناخي والبيئة
MOCCA Registration Number
AUD-AD-140-1534790

النسبة المئوية Percentage	نوع التجهيزة ونسبة المواد الفعالة: المحتويات Composition
70 g/kg	المواد الفعالة: Active Ingredients: إيميدالكوبريد IMIDACLOPRID
930 g/kg	المواد الخاملة Inert Ingredient
1000 g/kg	المجموع Total

Curative & Preventive



الشركة المنتجة
Manufacturing Company
ديفيد جراي وشركاه الخاصة المحدودة، أستراليا
David Gray & Co. Pty. Ltd.
2 Rawlinson Street
O'CONNOR WA 6163, Australia

الموزع المحلي
Local Distributor



شورود الشرق الأوسط
Sherwood Middle East, Abu Dhabi, UAE
Tel.: +971 2 6718812, Fax: +971 2 6718813



Net Content

5 Kg

المحتوى الصافي

التحذيرات:

- يحفظ بعيداً عن متناول الأطفال.
- يجب قراءة إرشادات السلامة قبل الفتح أو الاستخدام.
- لا يجوز استخدام هذا المنتج لأي غرض، أو بأية طريقة مخالفة لهذه النشرة، ما لم يُصرح بذلك بموجب التشريعات المناسبة.
- سام جداً للأحياء المائية.
- لا تسمح للحاويات الكيماوية أو الحبيبات بالدخول في مصارف أو مجاري أو برك المياه.
- لا تُطعم الحبيبات المعالجة أو حتى تضعها أمام الطيور البرية أو الأليفة. نظف أي تسريب على الفور أو أعد استخدامه، أو إذا كان التخلص منه مطلوباً، فانظر قسم التخزين والتخلص أناه.

تعليمات السلامة:

ضار في حالة الاستنشاق أو البلع. عند استخدام المنتج، ارتدي قفازات أحادية الاستخدام. اغسل يديك بعد الاستخدام.

الإسعافات الأولية:

في حالة حدوث تسمم، اتصل بطبيب.

التخزين والتخلص من المنتج:

يخزن في الوعاء الأصلي المغلق في مكان بارد وجاف بعيداً عن متناول الأطفال. لا يُخزن معرضاً لضوء الشمس المباشر. تخلص من الحاويات الفارغة أو الحبيبات المتسربة بلقها في ورقة ووضعها في كيس بلاستيك ووضعها في المهملات.

PRECAUTIONS:

- Keep out of reach of children.
- Read safety directions before opening or using.
- Not to be used for any purpose, or in any manner, contrary to this label unless authorised.
- Very toxic to aquatic organisms
- DO NOT allow chemical containers or granules to get into drains sewers, streams or ponds.
- DO NOT feed treated granules, or otherwise expose, to wild or domestic birds. Clean any spillage immediately and either re-use or, if disposal is required see Storage and Disposal Section below.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. When using the product wear disposable gloves. Wash hands after use.

FIRST AID

If Poisoning occurs, contact a doctor.

STORAGE AND DISPOSAL

Store in the closed original in a cool, dry place out of reach of children. DO NOT store in direct sunlight. Dispose of empty container, or spilled granules, by wrapping in paper, placing in a plastic bag and putting in the garbage.

طريقة الاستخدام:

يحمي مبيد الحشرات الجهازي ديفيد غرايز المروج وأشجار النخيل والألاليا والورد والنباتات الزينة من الحشرات المذكورة أناه. مبيد الحشرات ديفيد غرايز هو مبيد حشري جهازي تمصنه جذور النباتات للقضاء على الآفات.

القفازات المستقطعة: ملحوظة: قد تستغرق السيطرة الملحوظة على الآفات حتى أسبوعين من بعد الاستعمال حسب قوة الإصابة.

طريقة التحضير:

استخدام غطاء القياس لقياس المقدار المطلوب. يحمل الغطاء 10 جرام من مبيد الحشرات الجهازي ديفيد غرايز.

تعمل كل حلقة في غطاء القياس 2,5 جرام. ارتد قفازات مطاطية عند استخدام المنتج.

للحصول على أفضل نتيجة، قم بري النباتات جيداً بعد استخدام الحبيبات حيث يضمن ذلك أفضل توغل وملاسة للجذور.

المحاذير: لا تعمر أنية النبات بالماء حتى لا يتسرب من الأنية. لا تستخدمه أكثر من مرتين سنوياً.

الاستخدامات:

الموقف	الآفات / الأمراض	المعدل	كيفية الاستخدام
مروج المنزهات والحدائق العامة ومناطق الرياضة والترفيه والنخيل والأشجار المنزرة	الدودة الأرضية البيضاء، خنفساء حزيران (الخنفاص) والحفار كلب البحر، يرقات حشرة المعطف الجلدي	2-1 غرام لكل متر مربع	قم بالتطبيق بالنثر اليدوي أو باستخدام آلة النثر
		3-1 غرام لكل متر مربع	يتم خلطه مع التربة
الألاليا في أنية	حشرة الأزلاليا	10 جرام / إناء	للأنية سعة حتى 20 لتر، قبل الاستخدام، أزل النشارة والنباتات الميتة ورطب سطح التربة. رش المنتج بالتساوي حول سطح الإناء ثم اروه جيداً فور الانتهاء من الاستعمال للتأكد من اقصى توغل وملاسة للجذور. تجنب زيادة الري والتسرب من الأنية. يعطي حماية حتى 6 أسابيع. للتحكم المستمر، أعد الاستخدام هذه المرة واروه جيداً.
نباتات الزينة في أنية	يرقات الخنفاص	2,5 جرام يعالج 10 اواني سعة 3 لتر	قبل الاستخدام، أزل النشارة والنباتات الميتة ورطب وسط الإناء. رش المنتج بالتساوي فوق سطح الإناء ثم اروه جيداً فور الانتهاء من الاستعمال للتأكد من اقصى توغل وملاسة للجذور. تجنب زيادة الري والتسرب من الأنية. إناء 3 لتر قطر 19 سم. إناء 6 لتر قطر 25 سم يعطي حماية حتى 6 أسابيع. للتحكم المستمر، أعد الاستخدام هذه المرة واروه جيداً.
الورد	حشرة المن	10 جرام / إناء	قبل الاستخدام، أزل النشارة والنباتات الميتة ورطب سطح التربة. رش المنتج بالتساوي حول منطقة الري أو بالتساوي حول سطح الورد. استخدم هذا المعدل للنباتات حتى ارتفاع 1م. لكل متر إضافي من ارتفاع النبات، أضف 6 جرام إضافية من مبيد الحشرات الجهازي ديفيد غرايز. قم بالري حسب المعدل لمنع المنتج وترطيب منطقة الجذور. للنباتات المزروعة في أنية، تجنب زيادة الماء والتسرب من الأنية. يعطي حماية حتى 6 أسابيع. للتحكم المستمر، أعد الاستخدام هذه المرة واروه جيداً.

الضمان: تضمن الشركة المنتجة ثبات المواصفات الكيميائية والفيزيائية لهذا المبيد وسلامته في عبواته الاصلية في التخزين العادي طيلة فترة صلاحيته تحت ظروف دولة الامارات العربية المتحدة وحسب طريقة التخزين المشار اليها.

الشركة المنتجة ليست مسؤولة عن أي حادث قد يحدث بسبب سوء التخزين أو استخدام أو خلط غير صحيح، أو بسبب عدم الامتثال للتعليمات التقنية.

تاريخ الإنتاج:

تاريخ الانتهاء:

رقم التشغيلة:

DIRECTIONS FOR USE:

David Grays Systemic Bug Killer protects lawns, palm trees, azaleas, roses and ornamental plants from the insects mentioned below. David Grays Bug Killer is a systemic insecticide that is taken up by the plants roots to control pests.

Withholding Periods: Note: Visible control of pests may take up to 2 weeks after application, depending on the severity of the infestation.

How to Prepare:

Use the measure cap to measure the required amount, the cap holds 10 grams of David Grays Bug Killer, each ring on the measure cap holds 2.5 Grams. Wear rubber gloves when using product.

For best results, water plant well after applying granules as this ensures maximum penetration and contact with the roots.

Restraints: Do not overwater to avoid leaching from pots. Do not make more than 2 applications per year.

Uses:

Situation	Pests /Diseases	Rate	How to Apply
Lawns of parks and gardens, and sport and recreation zones	Cockchafer (Melolontha melolontha), Garden chafer (Phyllopertha horticola), Summer chafer (Amphimallon soisitalis), Leather Jacket (Tipula paludosa)	1-2 g/m2	Apply by manual spreading or using spreader machine.
Palm trees and fruit trees	Date palm fruit stalk borer	1-3 g/m2	Mix with soil
Azaleas in Pots	Azalea Lace Bug	10g/pot	For pots up to 20L capacity. Prior to application remove mulch and dead vegetation, and moisten the soil surface. Sprinkle product evenly around the surface of the pot and then water well immediately after application to ensure maximum penetration and contact with the roots. Avoid over-watering and leaching from pots. Gives up to 6 weeks systemic protection. For continued control, reapply at this time and water in well.
Ornamentals in Pots	Scarab Beetle Larvae	2.5g treats 10 x 3 litre pots	Prior to application remove the mulch and dead vegetation and moisten the potting media. Sprinkle the product evenly over the surface of the pots and then water well immediately after application to ensure maximum penetration and contact with the roots. Avoid overwatering and leaching from the pots. 3 litre pot is 19 cm in diameter, 6 litre pot is 25 cm in diameter. Gives up to 6 weeks systemic protection. For continued control, reapply at this time and water in well.
Roses	Aphids	10g/pot	Prior to application remove mulch and dead vegetation, and moisten the soil surface. Sprinkle product evenly around the drip zone or evenly over the surface of potted roses. Use this rate for plants up to 1m high. For each additional metre of plant height add 6g extra of David Grays Bug Killer. Water as usual to incorporate product and moisten root zone. For potted roses, avoid overwatering and leaching from pots. Gives up to 6 weeks systemic protection. For continued control, reapply at this time and water in well.

Warranty: The manufacturer warrants that the chemical and physical specifications of this pesticide are maintained in its original packaging in normal storage throughout its validity period under the conditions of the United Arab Emirates and according to the method of storage referred to.

The manufacturer is not responsible for any incident that may occur due to incorrect storing, using, and mixing or non-compliance with technical instructions.



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

David Gray & Co. Pty Ltd
2 Rawlinson Street
O'Connor, Western Australia

Phone: (08) 9337 4933 (office hours)
Fax: (08) 9337 8316
Email: general@davidgray.com.au

Chemical nature: Imidacloprid is a guanidine derivative, present here in an inert filler.
Product Name: DAVID GRAYS SYSTEMIC BUG KILLER GRANULAR GARDEN INSECTICIDE
Product Use: Domestic insecticide for use as described on the product label.
Creation Date: August, 2015
This version issued: August, 2015 (valid for 5 years from this date)

SECTION 2 - HAZARDS IDENTIFICATION

Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous - No criteria found.

Safety Phrases: S22, S36, S24/25. Do not breathe dust. Wear suitable protective clothing. Avoid contact with skin and eyes.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

P102: Keep out of reach of children.

RESPONSE

P352: Wash with plenty of soap and water.

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

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

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

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Emergency Overview

Physical Description & Colour: Light orange-brown granulated solid.

Odour: No odour.

Major Health Hazards: Acute Toxicity: Imidacloprid is harmful. The LD₅₀ is 450 mg/kg body weight in rats, and 131 mg/kg in mice. The 24-hour dermal LD₅₀ in rats is >5,000 mg/kg. It is considered non-irritating to eyes and skin (rabbits), and non-sensitizing to skin (guinea pigs). The LC₅₀ is > 69 mg/m³ as an aerosol, and >5323 mg/m³ as a dust.

Signs and Symptoms of Poisoning: Although no account of human poisoning was found in the literature, signs and symptoms of poisoning would be expected to be similar to nicotinic signs and symptoms, including fatigue, twitching, cramps, and muscle weakness including the muscles necessary for breathing.

No significant risk factors have been found for this product.

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

SAFETY DATA SHEET

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is likely to be mechanically irritating. If exposure is minor or brief, no long term effects should result. However, if material is not removed promptly, scratches to surface of the eye may result with long term consequences.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc,%	TWA (mg/m ³)	STEL (mg/m ³)
Imidacloprid	138261-41-3	7% w/w	not set	not set
Other non hazardous ingredients	various	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SECTION 4 - FIRST AID MEASURES

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Gently brush away excess particles. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the particles are removed, while holding the eyelid(s) open. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s). Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

SECTION 5 - FIRE FIGHTING MEASURES

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire.

Fire decomposition products from this product are not expected to be hazardous or harmful.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

SAFETY DATA SHEET

Upper Flammability Limit: Does not burn.
Lower Flammability Limit: Does not burn.
Autoignition temperature: Not applicable - does not burn.
Flammability Class: Does not burn.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

SECTION 7 - HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Keep containers dry and away from water. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m³)	STEL (mg/m³)
Exposure limits have not been established by SWA for any of the significant ingredients in this product.		

The ADI for Imidacloprid is set at 0.06mg/kg/day. The corresponding NOEL is set at 6mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, Dec 2012.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask. Otherwise, not normally necessary. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour: Light orange-brown granulated solid.
Odour: No odour.
Boiling Point: Not available.
Freezing/Melting Point: No specific data. Solid at normal temperatures.
Volatiles: Nil at 100°C.
Vapour Pressure: Negligible at normal ambient temperatures.
Vapour Density: Not applicable.
Specific Gravity: No data.

SAFETY DATA SHEET

Water Solubility:	Negligible.
pH:	No data.
Volatility:	Negligible at normal ambient temperatures.
Odour Threshold:	No data.
Evaporation Rate:	Not applicable.
Coeff Oil/water Distribution:	No data
Viscosity:	Not applicable.
Autoignition temp:	Not applicable - does not burn.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Containers should be kept dry. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: Chronic Toxicity: 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.

Carcinogenic Effects: Imidacloprid is considered to be of minimal carcinogenic risk.

Organ Toxicity: In short-term feeding studies in rats, there were thyroid lesions associated with very high doses of Imidacloprid.

Fate in Humans and Animals: Imidacloprid is quickly and almost completely absorbed from the gastrointestinal tract, and eliminated via urine and faeces (70-80% and 20-30%, respectively, within 48 hours).

An information profile for Imidacloprid is available at <http://extoxnet.orst.edu/pips/ghindex.html>

There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

SECTION 12 - ECOLOGICAL INFORMATION

This product is unlikely to adversely effect the environment.

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. Thus, Imidacloprid appears to have potential as a bird repellent seed treatment.

SAFETY DATA SHEET

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.

Breakdown of Chemical in Vegetation: Imidacloprid penetrates the plant, and moves from the stem to the tips of the plant. It has been tested in a variety of application and crop types, and is metabolized following the same pathways.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

SECTION 15 - REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Imidacloprid, is mentioned in the SUSMP.

SECTION 16 - OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

Please read all labels carefully before using product.

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