

Section 1 - Identification of the Material and Supplier

Trade Name:	NOVAGREEN BLIGHTBAN FUNGICIDE
APVMA Approval No.:	68632/58741
Product Use:	Fungicide for the control of Damping off on ornamentals and turf caused by <i>Pythium</i> spp. as per label directions.
Supplier:	Australian Agribusiness (Holdings) Pty Ltd Suite 201, Level 2, 3 Rider Boulevard, Rhodes NSW 2138 Phone: 02 9395 1200 (office hours only) www.aus-ag.com.au
Creation Date:	May 2023 and is valid for 5 years from this date.
Poisons Information Centre:	Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated.



GHS SIGNAL WORD: WARNING

Skin Sensitisation: Category 1

HAZARD STATEMENT:

H317: May cause an allergic skin reaction.

PRECAUTIONARY STATEMENT:

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take of contaminated clothing and wash it before reuse.

STORAGE

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

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & Colour: Colourless liquid

Odour: Slightly perceptible

Major Health Hazards: No major hazards known.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%
Propamocarb hydrochloride (mono)	25606-41-1	60.5
Non-hazardous ingredients	n/a	to 100

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

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Issued by: Australian Agribusiness (Holdings) Pty Ltd

Phone: 02 9395 1200 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

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 persists, seek medical advice.

Skin Contact: Wash thoroughly with soap and water. If symptoms persist, seek medical advice.

Eye Contact: Rinse immediately with flowing water, also under the eyelids, for at least 15 minutes or until the product is removed. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops or persists.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water and contact a Poisons Information Centre or call a doctor.

Symptoms: The following symptoms may occur, Lethargy, Ataxia, Spasm.

Risks: This product, although being a carbamate, is NOT a cholinesterase inhibitor.

Treatment: Treat symptomatically. If systemic poisoning occurs, then treatment should be symptomatic and supportive as indicated by the patient's condition. There is no specific antidote. Contraindication: atropine.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: Not combustible, explosion hazard minimal. Dangerous gases are evolved in the event of a fire, the following may be released, carbon monoxide (CO), Hydrogen chloride (HCl) and Nitrogen oxides (NOx). Fire decomposition products from this product may release toxic compounds of carbon and nitrogen. Take suitable protective measures such as wearing self-contained breathing apparatus and protective suit.

Extinguishing Media: Use extinguishing media suited to burning materials such as water spray, alcohol-resistant foam, dry chemical or carbon dioxide. High volume water jet not suitable

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

Flash point: Does not burn.

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: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. No special recommendations for clothing materials. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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.

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Storage: Keep out of reach of children. Protect this product from light, frost and keep away from heat and ignition sources. 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.

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/m ³)	STEL (mg/m ³)
No data	1.1	No data

Ventilation: This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: If you believe you may have a sensitisation to this product or any of its declared ingredients, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron or protective suit. Make sure that all skin areas are covered. See below for suitable material types.

Hand protection: We suggest that protective clothing be made from the following materials: Impermeable PVC gloves. Wash gloves when contaminated, dispose 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.

Respiratory protection: Respiratory protection is not required under anticipated circumstances of exposure. However, if you have any doubts consult the Australian Standard mentioned above.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Colourless liquid
Odour:	Slightly perceptible
Boiling Point:	ca. 100°C
Freezing/Melting Point:	No data. Liquid at normal temperatures.
Volatiles:	No data.
Vapour Pressure:	No data.
Vapour Density:	No data.
Specific Gravity:	1.09 at 20°C
Water Solubility:	Completely miscible
pH:	2.0 – 4.0 (100%)(23°C).
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data available.
Autoignition temp:	No data available.

Section 10 - Stability and Reactivity

Reactivity: Stable under normal conditions. 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: Extremes of temperature and direct sunlight. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: Store only in original container.

Fire Decomposition: No decomposition products expected under normal use. Thermal decomposition can lead to release of Carbon oxides and Nitrogen oxides. .

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Human: Product toxicity is low but may be harmful if swallowed in large quantities and may irritate eyes

Animal Toxicity Data:

Acute:

Oral Toxicity: LD₅₀ (Rat) >5000mg/kg

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Inhalation Toxicity:	LC ₅₀ (rat)4hr >4.95mg/L, Exposure time:4hr
Dermal Toxicity:	LD ₅₀ (Rat) >5000mg/kg
Skin corrosion/irritation:	No skin irritation (Rabbit)
Serious eye damage/ eye Irritation:	No eye irritation (Rabbit)
Respiratory or skin sensitisation:	Skin: Sensitising (Mouse)
Chronic Toxicity:	Not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Not carcinogenic in lifetime feeding studies in rats and mice. Did not cause reproductive toxicity in a two-generation study in rats. Propamocarb hydrochloride (mono) is Classed by SWA as a potential sensitiser by skin contact.

Potential Health Effects

Inhalation: Product may be harmful if inhaled.

Skin Contact: Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. In addition, product may be irritating.

Eye Contact: This product may cause irritation to eyes.

Ingestion: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful if swallowed.

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.

Classification of Hazardous Ingredients

Ingredient	Health Hazard Statement Codes
Propamocarb hydrochloride (mono)	H317 • Skin Sensitisation: Category 1

Section 12 - Ecological Information

Do not contaminate streams, rivers or waterways with the product or used containers.

Ecotoxicity (Propamocarb hydrochloride)

Fish toxicity: NOEC: Rainbow trout (*Oncorhynchus mykiss*) > 100mg/L, Exposure time: 21 days

LC₅₀ Bluegill sunfish (*Lepomis macrochirus*) >92mg/L, Exposure time 96 hr

Aquatic invertebrate toxicity: EC₅₀ water flea (*Daphnia magna*) > 106 mg/L, Exposure time 48hr

Aquatic plants toxicity: IC₅₀ freshwater green alga (*Raphidocelis subcapitata*) > 85 mg/L, Exposure time 48hr

Bird toxicity: LD₅₀ Bobwhite quail (*Colinus virginianus*) >1842 mg/kg; LD₅₀ Mallard duck (*Anas platyrhynchos*) > 1842 mg/kg

Persistence/degradation: Propamocarb hydrochloride is rapidly biodegradable. Koc:719.

Mobility in soil: Slightly mobile in soils.

Section 13 - Disposal Considerations

Disposal: Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Do not empty into drains. Do not reuse container for any other purpose. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

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Section 15 - Regulatory Information

AIIC: All of the significant ingredients in this formulation are compliant with AICIS regulations.
SUSMP classification (Poison Schedule) – Schedule 5.

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	IMDG	International Maritime Dangerous Good
AIIC	Australian Inventory of Industrial Chemicals	IMSBC	International Maritime Solid Bulk Code
CAS number	Chemical Abstracts Service Registry Number	NTP	National Toxicology Program (USA)
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
IARC	International Agency for Research on Cancer	SWA	Safe Work Australia (formerly ASCC and NOHSC)
IATA	International Air Transport Authority	UN Number	United Nations Number

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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. 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.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7
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