

Amgrow Bin-Die Selective Lawn Weeder RTU**Section 1 - Identification of Chemical Product and Company**

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Trade Name:

Bin-Die Selective Lawn Weeder RTU

Product Use:

Selective herbicide to control bindii, clover and other broadleaf weeds in buffalo & other lawns in ready to use Hose-On formulation

Issue Date:

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Section 2 - Hazards Identification**Statement of Hazardous Nature**

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Risk Phrases: R43 May cause sensitisation by skin contact

Safety Phrases: S2, Keep out of reach of children S13, Keep away from food, drink and animal feeding stuffs. S44, If you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label S36/37/38, Wear suitable protection and gloves.

SUSMP Classification: S6

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

UN Number: None allocated

Emergency Overview

Physical Description & colour: Clear liquid

Odour: Characteristic odour.

Major Health Hazards: No major adverse health effects if product handled in accordance with this SDS

Potential Health Effects

Inhalation: Available data indicates that this product is harmful if inhaled, may lead to short term health problems. Long term exposure may lead to permanent health problems

Skin Contact: Data suggests that this product may be absorbed through skin and be harmful by skin absorption. Major skin exposure may lead to health problems

Eye Contact: This product is mildly irritating to eyes, but is unlikely to cause anything more than mild transient discomfort such as watering and redness. However this should quickly disappear once exposure is over.

Ingestion: This product is harmful if swallowed - toxic

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. %
Bromoxynil Octanoate	1689-99-2	1.2
MCPA (2-ethylhexyl ester)	29450-45-1	1.2
Other non hazardous ingredients		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.

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.

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Inhalation: If vapour or mists have been inhaled and irritation or unusual symptoms have developed, remove to fresh air and observe til recovered. Seek medical advice if symptoms persist.

Skin Contact: Remove contaminated clothing and wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

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

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: It is unlikely that there would be risk of an explosion from this product if it is involved in a fire.

Extinguishing Media: Not combustible, however if involved in a fire use extinguishing media applicable to surrounding materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered

Decomposition Products: Decomposes on heating after evaporation to dryness emitting toxic fumes.

Flash point: Not applicable

Auto ignition temperature: Not applicable

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses.. Wear protective chemically resistant clothing including Face mask, face shield, gloves. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material and 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.

Storage: This product is a S6 poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep away from extreme heat and open flames and ensure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits:	TWA (mg/mP3P)	STEL (mg/mP3P)	ADI (mg/Kg/day)	NOEL (mg/Kg/day)
*Bromoxynil	not set	not set	0.003	0.3
*MCPA	not set	not set	0.01	1.1

**Exposure limits have been set for concentrated constituents only, not product.*

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The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, March 2012

Personal Protection

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

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

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: If there is a significant chance vapours or mists accumulating in the area where this product is being used, a local exhaust system should be used.

Eye Protection: Eye protection such as protective glasses or goggles is recommended

Skin Protection: You should prevent skin contact by wearing impervious gloves and protective clothing. Make sure that all skin areas are covered

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

Respirator: If there is a significant chance vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used.

Always wash hands before eating, drinking or smoking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear liquid
Odour:	Characteristic
Boiling Point:	100°C
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	No data. Expected to be low at 100°C
Vapour Pressure:	No data.
Flash Point:	not applicable
Specific Gravity:	1.01
Solubility:	Soluble in water
pH:	approx 9

Section 10 – Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Avoid contact with foodstuffs, direct heat or flames, over exposure to sunlight

Incompatibilities: Acids and oxidising agents.

Fire Decomposition: May give rise to toxic fumes on strong heating after evaporation to dryness – hydrogen chloride, hydrogen bromide, oxides of carbon, nitrogen

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

No major adverse health effects if product handled in accordance with this SDS. See Section 2 for potential health effects

Toxicological Data: No LD₅₀ data available for this product. However for constituents in concentrated form: **Bromoxynil:** Oral LD50 = 240-400 mg/kg (rat); Dermal LD50 > 2000 mg/kg (rabbit).

MCPA: Oral LD50 = 700-1160 mg/kg (rat); Dermal LD50 > 4000 mg/kg (rabbit).

Reproductive effects: Data suggests that Bromoxynil does not cause reproductive effects. MCPA - It is unlikely that humans will experience effects under normal exposure conditions.

Teratogenic effects: Teratogenic effects in humans are unlikely at expected exposure levels.

Mutagenic effects: Bromoxynil - No data currently available. MCPA - It appears that the compound poses little or no mutagenic risk.

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Section 12 - Ecological Information

Ecotoxicity: Avoid contaminating waterways and fishponds. Do not allow spray to drift into aquatic environments, non target plants. Keep children, pets and wildlife off treated areas until spray has dried.

Aquatic Toxicity: Harmful to aquatic organisms. May cause long term effects in the aquatic environment.

Effects on other organisms: Bromoxynil and MCPA are not toxic to bees.

Section 13 - Disposal Considerations

Disposal: There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Special help is available for the disposal of Agricultural Chemicals. 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 rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/>

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.

IMDG, IATA: This product is not classified as a dangerous good for transport by sea or air

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

SUSMP: Schedule 6 Poison

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
AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety & Compensation Council
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
IATA	International Air Transport Authority
IMDG	International Maritime Dangerous Good
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia (formerly ASCC and NOHSC)
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 "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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