

Safety Data Sheet

according to WHS Regulations

Printing date 10.09.2021

Revision: 10.09.2021

1 Identification

Product Name: Bin-die Selective Lawn Weeder**Other Means of Identification:** Mixture**APVMA Number:** 31456**Recommended Use of the Chemical and Restriction on Use:**

For the control of Bindii & other weeds in Buffalo & other lawns as indicated in How to Use table.

Details of Manufacturer or Importer:

Amgrow Pty Ltd

3/29 Birnie Ave

Lidcombe NSW 2141

Phone Number: 02 9395 1200 (office hours)**Emergency telephone number:** National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Skull and crossbones

Acute Toxicity (Inhalation) 3 H331 Toxic if inhaled.



Health hazard

Toxic To Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Skin Sensitisation 1

H317 May cause an allergic skin reaction.

Signal Word Danger**Hazard Statements**

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary Statements

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 1689-99-2	Bromoxynil (as the octanoate) ⚠ Acute Toxicity (Inhalation) 3, H331; ⚠ Toxic To Reproduction 2, H361; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317	15-25%
CAS: 29450-45-1	MCPA (as iso octyl ester) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332; Skin Sensitisation 1, H317	15-25%

4 First Aid Measures

General Information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms persist.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms persist.

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Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause respiratory irritation and transient discomfort.

Skin Contact: May cause an allergic skin reaction, which may manifest as skin rash, inflammation, itchiness and reddening.

Eye Contact: May cause irritation, stinging, reddening and lachrymation.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation, burning of the mucosal membranes and reddening.

Medical Attention and Special Treatment:

Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use carbon dioxide, dry chemical, alcohol-resistant foam and water fog.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include carbon dioxide, carbon monoxide, smoke, hydrogen chloride gas, other chlorine compounds and bromine compounds.

Product is not flammable.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Prevent firefighting run off from entering drains or water courses.

Hazchem Code: +3Z

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other non-combustible absorbent material. In the event of a large spillage, create a dike to prevent entry into drains. Sweep up and shovel or collect recoverable product and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Emergency eyewash facilities and safety showers are recommended in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Keep container tightly closed when not in use to avoid contamination and possible evaporation. Check containers periodically for leaks. Some liquid preparations settle or separate on standing and may require stirring before use. Keep away from acids and oxidising agents.

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8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls:

Ensure adequate ventilation of the working area. Use of a fan is suggested if natural ventilation is inadequate.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC or other chemically impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing and, preferably an impervious apron (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Protective glasses or goggles for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Clear light brown
Odour:	Solvent-like
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	Liquid at ambient temperatures
Initial Boiling Point/Boiling Range:	190 - 270 °C
Flash Point:	No information available
Flammability:	Product is not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	1.07 - 1.09
Vapour Density:	>1 (air = 1)
Evaporation Rate:	No information available
Solubility in Water:	Emulsifies into water
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

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10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sources of heat, sparks or ignition and direct sunlight.

Incompatible Materials: Acids and oxidising agents.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, smoke, hydrogen chloride gas, other chlorine compounds and bromine compounds.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:

CAS: 1689-99-2 Bromoxynil (as the octanoate)

Oral	LD50	63 mg/kg (guinea pig)
		190 mg/kg (rat)
		260 mg/kg (rabbit)

Dermal	LD50	>2,000 mg/kg (rabbit)
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CAS: 29450-45-1 MCPA (as iso octyl ester)

Oral	LD50	550-800 mg/kg (mouse)
		700-1,160 mg/kg (rat)

Dermal	LD50	>1,000 mg/kg (rat)
		>4,000 mg/kg (rabbit)

Acute Health Effects

Inhalation: Toxic if inhaled. May cause respiratory irritation and transient discomfort.

Skin:

May cause an allergic skin reaction, which may manifest as skin rash, inflammation, itchiness and reddening.

Eye: May cause irritation, stinging, reddening and lachrymation.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation, burning of the mucosal membranes and reddening.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No data associated with long term health effects.

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Existing Conditions Aggravated by Exposure: Pre-existing sensitisation to bromoxynil.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The ADI for Bromoxynil for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', June 2021).

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

CAS: 1689-99-2 Bromoxynil (as the octanoate)

LC50	0.46 mg/l (goldfish)
	0.05 mg/l (rainbow trout)

CAS: 29450-45-1 MCPA (as iso octyl ester)

EC50/48 h	0.29 mg/l (daphnia)
EC50/72 h	0.11 mg/l (skeletonema costatum)
LC50/96 h	117-232 mg/l (rainbow trout)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** Bromoxynil and MCPA are not toxic to bees.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number ADG, IMDG, IATA	UN3082
Proper Shipping Name ADG, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil, MCPA)
Dangerous Goods Class ADG Class: Subsidiary Risk:	9 Miscellaneous dangerous substances and articles.
Packing Group: ADG, IMDG, IATA	III
Marine pollutant:	Yes

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EMS Number:	F-A,S-F
Hazchem Code:	•3Z
Special Provisions:	274, 331, 335, 375, AU01
Transport/Additional information:	Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01)
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	PP1
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals: All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 10.09.2021

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Acute Toxicity (Inhalation) 3: Acute toxicity – Category 3

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Toxic To Reproduction 2: Reproductive toxicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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