

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **BUFFALO PRO SELECTIVE BINDII & BROADLEAF WEED KILLER CONCENTRATE**

**Recommended Use:** Selective herbicide to control bindii, clover and most other broadleaf weeds in grass lawns and turf.

**Supplier:** Yates Australia, a division of DuluxGroup (Australia) Pty Ltd  
**ABN:** 67 000 049 427  
**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia  
**Telephone Number:** +61 2 9781 8777  
**Facsimile:** +61 2 9781 8825  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**Risk Phrases:** Harmful by inhalation, in contact with skin and if swallowed. May cause sensitisation by skin contact. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. Possible risk of harm to the unborn child. Harmful: May cause lung damage if swallowed.

**Safety Phrases:** Keep out of the reach of children. Keep away from food, drink and animal foodstuffs. Do not breathe vapour/mist/aerosol. Avoid contact with skin. Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions safety data sheets. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**Poisons Schedule:** S6 Poison.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product Description:

Components	CAS Number	Proportion	Risk Phrases
Bromoxynil octanoate	1689-99-2	200 g/L	R22 R23 R43 R50/53 R63
MCPA, iso-octyl ester	26544-20-7	200 g/L	R20/21/22 R50/53
Solvent naphtha (petroleum)heavy arom.	64742-94-5	343 g/L	R65
Surfactants	-	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

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Substance No: 000000022586

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**Inhalation:**

Remove victim from area of exposure - avoid becoming a casualty. Seek immediate medical advice.

**Skin Contact:**

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye Contact:**

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:**

If swallowed, do NOT induce vomiting. Give a glass of water. Get to a doctor or hospital quickly. Never give anything by the mouth to an unconscious patient.

**Medical attention and special treatment:**

Treat symptomatically. Aspiration can result in pulmonary oedema.

## 5. FIRE FIGHTING MEASURES

**Hazards from combustion products:**

Combustible liquid.

**Precautions for fire fighters and special protective equipment:**

On burning will emit toxic fumes, including those of hydrogen bromide , hydrogen chloride , hydrogen cyanide and other compounds of bromine , chlorine and nitrogen . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Suitable Extinguishing Media:**

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

**Hazchem Code:** · 3Z

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and clean up:**

**SMALL SPILLS:** Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal.  
**LARGE SPILLS:** Shut off all possible sources of ignition. Clear area of all unprotected personnel. Avoid breathing in vapours. Work up wind or increase ventilation. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

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## Conditions for safe storage:

Store in a cool, dry place and out of direct sunlight. Store away from seeds, fertilisers, animal and human foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## Precautions for safe handling:

Keep out of reach of children. Avoid skin and eye contact and breathing in vapour, mists and aerosols.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the National Occupational Health and Safety Commission.

## Engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

## Personal Protective Equipment:



When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Dark Brown
<b>Odour:</b>	Solvent
<b>Solubility:</b>	Emulsifiable with water.
<b>Specific Gravity:</b>	1.07-1.09
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	75 (PMCC)
<b>Flammability Limits (%):</b>	0.6-7 (solvent)
<b>Autoignition Temperature (°C):</b>	Not available
<b>% Volatile by Volume:</b>	30-40
<b>Boiling Point/Range (°C):</b>	190-270 (solvent)
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	Not applicable
<b>Viscosity:</b>	Not available
<b>Evaporation Rate:</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.
<b>Incompatible materials:</b>	Incompatible with oxidising agents.
<b>Hazardous decomposition products:</b>	Hydrogen bromide. Hydrogen chloride. Hydrogen cyanide. Other compounds of bromine, chlorine and nitrogen.
<b>Hazardous reactions:</b>	Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Ingestion:</b>	Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).
<b>Eye contact:</b>	May be an eye irritant.
<b>Skin contact:</b>	Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
<b>Inhalation:</b>	Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea.

### Long Term Effects:

No information available for the product. For BROMOXYNIL (1) : Evidence indicates that repeated or prolonged exposure to this chemical could result in effects on the kidneys and liver.

**Toxicological Data:** No LD50 data available for the product. For the constituent BROMOXYNIL (1):

Oral LD50 (rat): 238 mg/kg

Dermal LD50 (rat): >2000 mg/kg

Inhalation LC50 (rat): 0.72 mg/L/4 hours

SKIN: Mild to moderate irritant A skin sensitiser.

ADI (Acceptable Daily Intake) for humans is 0.003 mg/kg bw/day.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Avoid contaminating waterways. For BROMOXYNIL (1):
<b>Aquatic toxicity:</b>	Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
48hr LC50 (Daphnia magna):	0.046 mg/L
96hr LC50 (rainbow trout):	0.041 mg/L
<b>Terrestrial toxicity:</b>	Non-toxic to bees.
Contact LD50 (ug/bee):	>100 ug/bee

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.



**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BROMOXYNIL)  
**Hazchem Code:** - 3Z

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BROMOXYNIL)

**IMDG EMS Fire:** F-A

**IMDG EMS Spill:** S-F

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BROMOXYNIL)

## 15. REGULATORY INFORMATION

**Classification:** This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

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**Hazard Category:** Xn: Harmful  
Xi: Irritant  
N: Dangerous for the Environment

**Risk Phrase(s):** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Repr. Cat 3. R63: Possible risk of harm to the unborn child.  
R65: Harmful: May cause lung damage if swallowed.

**Safety Phrase(s):** S2: Keep out of the reach of children.  
S13: Keep away from food, drink and animal foodstuffs.  
S23: Do not breathe vapour/mist/aerosol.  
S24: Avoid contact with skin.  
S36/37: Wear suitable protective clothing and gloves.  
S61: Avoid release to the environment. Refer to special instructions Safety Data Sheets.  
S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**Poisons Schedule:** S6 Poison.

This product is registered in Australia by the Australian Pesticides & Veterinary Medicines Authority (APVMA).

## 16. OTHER INFORMATION

(1) Supplier Material Safety Data Sheet; 12/ 2008.

**Reason(s) for Issue:**  
First Issue Primary SDS

This safety data sheet has been prepared by SH&E Shared Services.  
This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.