

WPATH200, WPATH500



Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: MCGREGOR'S PATH & PATIO WEEDOUT SPRAY

Recommended use: Herbicide

Supplied: Amalgamated Hardware Merchants Ltd (AHM)
PO Box 97162, Manukau 2241, New Zealand

Street Address: 8 Hautu Drive, Wiri, Manukau, New Zealand

Telephone Number: +64 9 2511310

Facsimile Number: +64 9 2511311

Emergency Telephone: The National Poisons Centre 0800 764 766 (ALL HOURS)

Date of Preparation: June 2012

2. HAZARDS IDENTIFICATION

Priority Identifiers: Ecotoxic

HSNO Classes:

6.4A	May cause eye irritation.
6.5B	May cause sensation from prolonged skin contact.
6.8B	May cause reproductive/development damage from repeated oral exposure.
6.9B	May cause organ damage from repeated oral exposure at high doses.
9.1A	Very toxic to aquatic organisms.
9.2A	Non-selective – Very toxic to plants.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Content(% w/v)
Terbutylazine	5915-41-3	37
Glyphosate isopropylamine (active ingredient)	38641-94-0	13
Amitrole (active ingredient)	61-82-5	6
1,2-benzisothiazoline-3-one	58249-25-5	>1
Other ingredients, water, surfactants, etc	Proprietary	Remainder

4. FIRST AID MEASURES

For advice, contact The National Poisons Information Centre New Zealand 0800 764 766 (24 hours) or a doctor.

Skin Contact: In case of contact, immediately wash affected area with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.

Eye Contact: Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek medical advice immediately.

Ingestion:	Do not induce vomiting. Seek medical advice immediately.
Inhalation:	Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical advice immediately.
Workplace Facilities:	Hand wash facility. Eye wash facility.
Advice to doctor:	No specific antidote. Treat symptomatically

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Non-Flammable
HAZCHEM Code:	3Z
ERP Guide No:	47
Extinguishing Media:	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions:	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contains runoff.

6. ACCIDENTAL RELEASE MEASURES

Caution:

Floors may be slippery if wet. When dealing with spills, wear personal protective clothing and equipment as described in section 8. Prevent further spillage or leakage. Keep bystanders away. Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to an approved landfill.

7. HANDLING AND STORAGE

Storage:	Keep out of reach of children. Store in the original, tightly closed container, in a secure area away from feed or foodstuffs.
Handling and Use:	Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear protective clothing as described in section 8. Do not eat, drink or smoke while using. Wash hands and face after use. Wash protective clothing after use.
Approved Handler:	Required if applied in a wide dispersive manner, or by a commercial contractor.
Tracking:	Not required.
Record Keeping:	Record of use must be kept if 3 litres or more is used in an area within 24 hours, and is likely to enter air or water and leave that place.

Site requirements under the HSNO Act 1996 and HSNO Regulations:

- A location test certificate is not required
- A hazardous atmosphere zone is not required
- Fire extinguishers are not required
- Signage is required for 100 litres or more
- Emergency information is required for 1 litre or more

- An emergency plan is required for more than 100 litres
- Secondary containment is required for more than 100 litres
- Separation/Segregation from incompatible substances is not applicable

Additional Requirements: All aspects of storage, handling use, disposal and record keeping must be in accordance with NZS 8409:2004 "Management of Agrichemicals", and relevant local and regional council plans.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Tolerable Exposure Limit:	None established
Exposure Standards:	Product – None established (Use lowest practicable level) Active ingredients Amitrole 0.2mg/m ³ (8hr TWA) [Terbutylazine and Glyphosate – None established (use lowest practicable level)]
Personal Protection:	
Eye	Safety glasses/goggles
Skin	Wear protective clothing and waterproof gloves.
Respiratory	Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	White
Odour:	Non-specific
Boiling Point:	>100°C
Flash Point:	Will not flash
Auto Ignition Temperature:	Not applicable
Explosive Limits:	Not applicable
Density:	1.15 g/ml (approx.)
Vapour Pressure:	Not volatile
Vapour Density:	Not volatile
Solubility in Water:	Dispersible
pH:	4.5 – 6.5 (1% dispersion)
Oxidising Properties:	Not an oxidizer
Corrosive Properties:	Not a corrosive

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Avoid mixing with strong acids, alkalis, and oxidizing agents such as chlorine compounds, ammonium nitrate etc.
Decomposition:	Decomposition will not occur under normal conditions.
Dangerous Reactions:	Products arising from combustion or thermal decomposition maybe be toxic, corrosive or flammable.

11. TOXICOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

Swallowed:	Burning sensation in throat and chest, nausea, vomiting, diarrhoea
Eye:	Irritation
Skin:	Irritation
Inhalation:	Irritation
Acute Toxicity: (Active Ingredients)	Terbutylazine Acute Oral LD50 (Rat) 1590 mg/kg Acute Percutaneous LD50 (Rat) >2000 mg/kg Inhalation LC50 (4 hr) (Rat) >5.3 mg/l Glyphosate isopropylamine Acute Oral LD50 (Rat) >5000 mg/kg Acute Percutaneous LD50 (Rabbit) >5000 mg/kg Inhalation LC50 (4 hr) (Rat) >1.3 mg/l Amitrole Acute Oral LD50 (Rat) >1100 mg/kg Acute Percutaneous LD50 (Rat) >2500 mg/kg
Sensitisation Effects:	Potential contact sensitiser in susceptible individuals
Mutagenic Effects:	None
Carcinogenic Effects:	None
Reproductive Effects:	Animal feeding studies have found that rats fed amitrol at 5-25 mg/kg/day had fewer pups per litter, and weight at weaning was reduced. It is unlikely that reproductive effects will occur in humans in normal circumstances.
Teratogenic (Birth) Effects:	Animal feeding studies have found that amitrole at high doses (high enough to produce signs of toxicity in dams) birth defects occurred. It is unlikely that teratogenic effects will occur in humans in normal circumstances.
Systemic Effects:	Animal feeding studies have found that rats fed amitrole at 3-6 mg/kg/day for 2 weeks showed enlarged thyroid glands, and long oral exposure can cause reversible goiter.

12. ECOTOXICITY INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredients:

Ecotoxic Effects:	Terbutylazine Actur Oral LD50 (Ducks) >1000 mg/kg LC50 (96 hr) (Rainbow trout) 3.8 – 4.6 mg/l LC50 (48 hr) (Daphnia) 21 – 50.9 mg/l Algae EC50 (72 hr) 0.016 – 0.024 mg/l Very toxic to plant species (selective herbicide) Non – toxic to bees Glyphosate isopropylamine LC50 (96 hr) (Rainbow Trout) >1000 mg/l LC50 (48 hr) (Daphnia) >930 mg/l LC50(96 hr) (Green Algae) 72.9mg/l Very toxic to plant species (herbicide) Non- toxic to bees Amitrole Acute Oral LD50 (Bobwhite quail) >2150 mg/kg
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	LC50 (96 hr) (Rainbow Trout) >1000 mg/l\
	LC50 (48 hr) (Daphnia) >10 mg/l
	LC50 (96 hr) Green Algae 9 mg/l
	Very toxic to plant species (herbicide)
	Non-toxic to bees
Environmental Fate:	Biodegradable. DT50 (soil) 30-60 days (terbuthylazine)
	Biodegradable. DT50 (soil) 3-174 days (glyphosate)
	Biodegradable. DT50 (soil) 18 days (amitrole)
Partition Co-Efficient (Kow):	LogP = 3.21 (terbuthylazine) (high)
	LogP = -5.4 (glyphosate) (low)
	LogP = -0.97 (amitrole) (low)
Environmental Exposure Limit:	Product: - None established
	Active Ingredient: - 3.6 mg/l as glyphosate (in water); equivalent to 1ml Terminator GTA per 30 litres of water
	(Terbuthylazine, amitrole – None)

13. DISPOSAL CONSIDERATIONS

Product:	Dispose of product by using it in accordance with the label. Waste product should be disposed of to an approved landfill. For disposal of large quantities, contact Amalgamated Hardware Merchants Limited (AHM).
Container:	Dispose of to an approved landfill or agricultural recycling scheme. Do not burn. So not use packaging for any other purpose.

14. TRANSPORT INFORMATION

Dangerous Goods:	
UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTHYLAZINE 37%, GLYPHOSATE ISOPROPYLAMINE 13% AMITROLE 6%)
Class:	9
Subsidiary Group:	None
Packing Group:	III
Additional Information:	MARINE POLLUTANT
Maximum Transport:	250 litres
Quantity (Non-Commercial)	
Passenger Service Vehicle:	Maximum quantity 0.1 litre

15. REGULATORY INFORMATION

HSNO Approval No:	HSR001761
ACVM Registration No:	(Not required)

16. OTHER INFORMATION

Glossary

DT50:	Time (days) for 50% reduction in concentration
EC50:	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit:	Maximum concentration limit of a substance in an environmental medium, e.g. water, soil
ERMA:	Environmental Risk Management Authority
HSNO:	Hazardous Substance and New Organisms
LC50:	Concentration that will kill 50% of organisms
LD50:	Dose that will kill 50% of organisms
Partition Co-Efficient Kow:	Ratio of concentration between octanol and water. Values are given as the log value. A high value indicates a substance may bioaccumulate
Tolerable Exposure Limit:	Maximum concentration limit of a substance above which persons must not be exposed

Please Note:

Always read the product label before use.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the product in terms of its safety requirements.