

SAFETY DATA SHEET

Product Name: **MCGREGOR'S PATH & PATIO LONG
TERM WEED CONTROL**



Print/View Date: 25/11/2020

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	MCGREGOR'S PATH & PATIO LONG TERM WEED CONTROL
Recommended uses:	Herbicide
Restrictions on Use/Supply	This product must not be applied onto or into water. The following maximum application rates of this substance are set: 25 L/ha (1.5 kg amitrole, 2.5 kg glyphosate, 0.375 kg oxyfluorfen and 8.75 kg terbuthylazine /ha) with a maximum frequency of twice a year in non-crop land; and 6 L/ha (0.36 kg amitrole, 0.6 kg glyphosate, 0.09 kg oxyfluorfen and 2.1 kg terbuthylazine /ha), with a maximum frequency of application of 6 times per year in orchards.
Molecular Formula:	Mixture
Supplier:	Amalgamated Hardware Merchants Ltd (AHM)
Street Address:	8 Hautu Drive, Wiri, Manukau, New Zealand
Postal Address:	PO Box 97162, Manukau 2241, New Zealand
Telephone	+64 9 251 1310
Email:	info@ahm.co.nz
Website:	www.ahm.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.1E	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H333	P102, P103,	P101, P304, P312	No storage statement	P501
6.4A	Not applicable for the UN RTDG Model Regulations		Warning	H320	P103, P264	P305+P351 +P338 P337+P313	No storage statement	P501
6.8B	Not applicable for the UN RTDG Model Regulations		Warning	H361	P103, P201, P202, P281	P308+P313	P405	P501
6.9B	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103, P260	P314	No storage statement	P501
9.1A			Warning	H400	P103, P273	P391	No storage statement	P501
9.2A	Not applicable for the UN RTDG Model Regulations		Warning	H421	P103, P273	P391	No storage statement	P501
9.3C	Not applicable for the UN RTDG Model Regulations	No pictogram	No signal word	H433	P103, P273	No response statements	No storage statement	P501

Signal word:

WARNING

Dangerous Goods:

Dangerous Goods (Class 9)

Packaging Group:

III

Hazardous Substance (HSNO) Codes:

6.1E; 6.4A; 6.8B; 6.9B; 9.1A; 9.2A and 9.3C

Pictograms:



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Hazard Statement:

H320: Causes eye irritation
H333: May be harmful if inhaled or ingested
H361: Suspected of damaging fertility or the unborn child from repeated ingestion
H373: May cause damage to organs from repeated high-dose exposure.
H400: Very toxic to aquatic life.
H421: Very toxic to the soil environment.
H433: Harmful to terrestrial vertebrates.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P103: Read label before use
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe mist or spray
P264: Wash exposed skin thoroughly after use
P273: Avoid release to the environment
P281: Use personal protective equipment as required
P312 / P314: Get medical advice/attention or call the PISONS CENTRE if you feel unwell.
P391: Collect spillage.
P337+P313: If eye irritation persists get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Rinse container after use and dispose of with rubbish or to recycling if permitted

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Milky, off-white, opaque liquid

Ingredients	CAS #	Content %
Terbutylazine	5915-41-3	35%
Glyphosate isopropylamine	38641-94-0	10%
Amitrole	61-82-5	6%
Oxyfluorfen	42874-03-3	1.5%
Non specified or non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: Rinse mouth. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Eye Contact: May cause eye irritancy. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Skin Contact: Wash exposed skin with soap and water. If you feel unwell seek immediate medical advice.

Inhalation: Unlikely to present an inhalation hazard. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Advice for Medical Doctors: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

HAZCHEM code:	3Z
Specific Hazards:	None. Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are Water, CO ₂ , foam or dry chemical. Avoid water jet. Use extinguishing media appropriate to the surrounding conditions.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely.
Hazardous Products of Combustion:	Carbon monoxide (CO), phosphorous oxides (P _x O _y), nitrogen oxides (NO _x) and ammonia (NH ₃)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Use personal protective equipment – safety glasses or goggles – when mixing and applying. Avoid breathing vapours, mist or spray. For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Low environmental hazard. Contain spill and collect. Avoid release to the environment
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer, or the soil environment. If spill does enter waterway contact local authority. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

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7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin and eye. Avoid inhaling mist or spray. When handling product in drums, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Clean equipment after use. Do not contaminate drains, sewers or waterways or the soil environment.
Conditions for safe Storage including incompatibilities:	Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from feed or foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 11 th edition)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	If repeated or prolonged contact wear chemical resistant gloves.
Eye protection:	Wear safety glasses or goggles when mixing and spraying.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	No special requirement when used as recommended. Avoid breathing mist or spray.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes and clothing. Store work clothing separately.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Environmental Exposure Controls: Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation.

Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Amitrole	61-82-5		0.2		

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Water	77A	This product must not be applied onto or into water
Impurity levels	77A	The following maximum application rates of this substance are set: <ul style="list-style-type: none">25 L/ha (1.5 kg amitrole, 2.5 kg glyphosate, 0.375 kg oxyfluorfen and 8.75 kg terbuthylazine /ha) with a maximum frequency of twice a year in non-crop land; and6 L/ha (0.36 kg amitrole, 0.6 kg glyphosate, 0.09 kg oxyfluorfen and 2.1 kg terbuthylazine /ha), with a maximum frequency of application of 6 times per year in orchards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky, off-white, opaque liquid

Odour: Mild non-specific odour

Odour Threshold: No data

pH Value: 4.0 – 7.0 (1% dispersion)

Melting/freezing point: No data

Boiling point (range): >100 °C

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Flash Point:	Will not flash
Flammability:	Not applicable
Explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	1,150 g/l (approx.)
Solubility:	Suspension (dispersible)
Partition coefficient:	No data
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data
Viscosity:	No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Chemical/material Incompatibilities	Avoid mixing with strong acids, alkalis, and oxidising agents such as chlorine compounds, ammonium nitrate, etc.
Conditions to be avoided:	Avoid excessive heating
Thermal Decomposition:	Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Classes	6.1E; 6.4A; 6.8B; 6.9B; 9.1A; 9.2A and 9.3C
Acute Toxicity - Terbutylazine:	Acute oral LD ₅₀ (rat) = 1590 mg/kg (rat). Acute dermal LD ₅₀ (rat) >2000 mg/kg (rat) Inhalation LC ₅₀ 4h (rat) >5.3mg/l

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity – Glyphosate IPA:	Acute oral LD ₅₀ (rat) = >5000 mg/kg (rat). Acute dermal LD ₅₀ (rat) >5000 mg/kg (rat) Inhalation LC ₅₀ 4h (rat) >1.3mg/l
Acute Toxicity - Amitrole:	Acute oral LD ₅₀ (rat) >1100 mg/kg (rat). Acute dermal LD ₅₀ (rat) >2500 mg/kg (rat)
Acute Toxicity - Oxyflourfen:	Acute oral LD ₅₀ (rat) >2700 mg/kg (rat). Acute dermal LD ₅₀ (rat) >5000 mg/kg (rat) Inhalation LC ₅₀ 4h (rat) >3.7mg/l
Aspiration hazard	May cause irritation on inhalation of mist or vapour
Skin corrosion/irritation:	Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product
Serious eye damage/irritation:	May cause eye irritation
Respiratory or skin sensitisation:	None
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Teratogenicity:	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.
Reproductive toxicity:	Animal feeding studies have found that rats fed amitrole 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.
Specific organ toxicity – single exposure:	No data available

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11. TOXICOLOGICAL INFORMATION

Specific organ toxicity – repeated exposure:

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 goitre. Animal feeding studies have found that liver toxicity occurred in dogs and mice fed oxyfluorfen at 33 mg/kg/day.

Narcotic effects:

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance:

Toxic to aquatic life. Do not contaminate waterways, sewers, or drains when using product or packaging.

Ecotoxic Effects - terbuthylazine

Acute 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

EC50 (72 hr) (Algae) 0.016 – 0.024 mg/l

Very toxic to some plant species (selective herbicide)

Non-toxic to bees

Ecotoxic Effects – glyphosate IPA

LC50 (96 hr) (Rainbow trout) >1000 mg/l

LC50 (48 hr) (Daphnia) >930 mg/l

EC50 (72 hr) (Algae) 72.9 mg/l

Very toxic to some plant species (herbicide)

Non-toxic to bees

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12. ECOTOXICITY INFORMATION

Ecotoxic Effects - amitrole	Acute Oral LD50 (Bobwhite quail) >2150 mg/kg LC50 (96 hr) (Rainbow trout) >1000 mg/l LC50 (48 hr) (Daphnia) >10 mg/l EC50 (72 hr) (Algae) 9.0 mg/l Very toxic to some plant species (herbicide) Non-toxic to bees
Ecotoxic Effects - oxyfluorfen	Acute Oral LD50 (Bobwhite quail) >2150 mg/kg LC50 (96 hr) (Rainbow trout) >1000 mg/l LC50 (48 hr) (Daphnia) >10 mg/l EC50 (72 hr) (Algae) 9.0 mg/l Very toxic to some plant species (herbicide) Non-toxic to bees
Bioaccumulation potential:	BCF <1. Not likely to be bioaccumulate
Soil Toxicity and degradability:	Biodegradable. DT ₅₀ (soil) 30 - 60 days (terbuthylazine) Biodegradable. DT ₅₀ (soil) 3 - 174 days (glyphosate) Biodegradable. DT ₅₀ (soil) 18 days (amitrole) Biodegradable. DT ₅₀ (soil) 5 - 55 days (oxyfluorfen)
Mobility in soil	Moderate to high mobility potential.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.
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13. DISPOSAL CONSIDERATIONS

Container Disposal:	Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations. DO NOT reuse containers.
Methods of disposal to avoid	Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number:	3082
UN Dangerous Goods Class:	Marine Pollutant (Class 9)
Hazchem Code:	3Z
UN Packaging Group:	III
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HERBICIDE)
Segregation:	Not applicable

15. N.Z. REGULATORY INFORMATION

HSNO approval Number:	HSR007866
HSNO Classifications:	6.1E; 6.4A; 6.8B; 6.9B; 9.1A; 9.2A and 9.3C
HSNO Controls:	Refer to HSR007866

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15. N.Z. REGULATORY INFORMATION

Other Controls

Certified Handler only required if applied in a wide and dispersive manner, or by a commercial contractor.

Tracking is not required

Record or use must be kept if 3 litres or more is used in an area within 24h.

Do not re-enter sprayed area until spray has dried.

Signage and an emergency response plan is required for 100 litres.

16. OTHER INFORMATION

SDS date of preparation: 25 / 11 / 2020

SDS date of revision: 25 / 11 / 2025

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Amalgamated Hardware Merchants Ltd (AHM) web site, www.ahm.co.nz, or contact the supplier of the starting materials.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Amalgamated Hardware Merchants Ltd (AHM) to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Amalgamated Hardware Merchants Ltd (AHM) and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

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CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase