



SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **WEED AND FEED**
Product Use: Selective herbicide for lawn
Restriction of Use: Refer to Section 15

New Zealand Supplier: **AHM Group**
Address: 8 Hautu Drive
Wiri
Auckland

Telephone: +64 9 251 1300
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 3 July 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000359

Pictograms



Irritant Chronic Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3
9.2B	H422	Toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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Tel: 64 9 475 5240 www.techcomp.co.nz

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
MCPA as amine salt	1.5	2039-46-5
Dicamba as amine salt	0.1-0.2	2300-66-5
Urea	15-20	57-13-6
Inert ingredient(H ₂ O) and other	To balance	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung edema.

Inhalation: It is only slightly toxic if inhaled as shown by toxicity studies.

Skin: It is only slightly toxic as shown by toxicity studies.

Eye: It may cause pain, redness and tearing as shown by toxicity studies.

Section 5. Fire Fighting Measures

Hazard Type	None Flammable
Hazards from combustion products	Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products
Suitable Extinguishing media	Water fog or fine water spray, foam or dry agent.
Precautions for firefighters and special protective clothing	Firemen should wear self-contained breathing apparatus and protective clothing. Avoid heavy hose streams. Dike area to prevent water runoff. Fight fire from protected location or maximum possible distance.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Do not allow to enter waterways.

Small liquid spills on the floor or other impervious surface, should be soaked up with towels or other absorbent material and discarded in the trash. Clean the spill area with soap and water and rinse the area thoroughly. Spill area may be slippery.

Large spills that soak into the ground should be dug up, placed in metal drums and disposed of into the ground should be dug up. Placed in metal drums and disposed of in accordance with instructions provided under Disposal. Spill area may be slippery.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with eyes and skin. Avoid inhalation of spray mist.
- All people and pets must be kept away from the area while it is being sprayed.
- Wash any splashed or sprayed clothing before wearing again.
- Do not apply into or onto water.
- Do not exceed the application rates as specified on the product label.
- Do not apply more than twice per year.
- The minimum interval before reapplication is 6 months.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children. Store in the original, tightly closed container.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA	STEL
	ppm mg/m ³	ppm mg/m ³

No ingredients have exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Not normally required when used as directed

Personal Protection Equipment

Eyes	Wear goggles, face shield or safety glasses.
Hands	Wear heavy duty, natural rubber gloves.
Skin	Wear appropriate protective clothing to prevent skin contact. Applicators and other handlers must wear long-sleeved shirt long pants, shoes plus socks.
Respiratory	The undiluted product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapour or mist, workers should put on respiratory protection equipment in conformation with Local Regulations.

Section 9**Physical and Chemical Properties**

Appearance	Liquid
Colour	Yellowish transparent
Odour	Mild ammonia type smell
Odour Threshold	Not available
pH	7 - 9
Boiling Point	>100°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not volatile
Density	1.05 g/ml (approx.)
Specific Gravity	Not available
Water Solubility	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Do not mix, store or apply this product or spray solutions of this product in galvanized or unlined steel (except stainless steel) containers or spray tanks.
Incompatible Materials	None known.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Product			
MCPA	700-1160mg/kg (Rat)	>4000 mg/kg (rat)	6.36mg/l (rat) – 4hrs
Dicamba	>1707mg/kg(Rat)	>2000mg/kg (Rat)	>9.6mg/l(Rat) – 4hrs

Section 12. Ecotoxicological Information

HSNO Classes: 9.1C = Harmful to aquatic life with long lasting effects.
9.2B = Toxic to the soil environment.
9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	Biodegradable. DT50 (soil) 14 – 28 days (MCPA) Biodegradable. DT50 (soil) <14 days (Dicamba)
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	Partition Co-Efficient (Kow) LogP = -0.71 (low) (MCPA) LogP = 0.55 (low) (Dicamba)

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

Ecotoxic Effects

MCPA

- Acute Oral LD50 (Bobwhite quail) 377 mg/kg

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- LC50 (96 hr) (Rainbow trout) 232 mg/l
- EC50 (Algae) > 392 mg/l
- Very toxic to some plant species (selective herbicide)
- Non-toxic to bees

Dicamba

- Acute Oral LD50 (Mallard ducks) 2000 mg/kg
- LC50 (96 hr) (Rainbow trout) 135 mg/l
- EC50 (48 hr) (Daphnia) 110 mg/l
- EC50 (96 hr) (Algae) >41 mg/l
- Very toxic to some plant species (selective herbicide)
- Non - toxic to bees

Section 13. Disposal Considerations

Disposal Method:

Consume by using product as directed on the product label and recycle empty rinsed container. Wastes resulting from the use of this product that cannot be or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local and national regulations for the disposal of hazardous wastes.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

New Zealand:

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000359

HSNO Classification: 6.3B, 6.4A, 6.9B, 9.1C, 9.2B, 9.3C

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (9.1C, 9.2B)
Emergency Response Plan	1000L (9.1C)
Secondary Containment	1000L (9.1C)
Restriction of Use	Reg 77A: The substance must not be applied onto or into water.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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