

This revision issued: June 2022



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Goltix Uno Herbicide

Chemical name of active Ing: 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one

Product Use: For post-emergence use in red beet, fodder beet, sugar

beet and mangolds.

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road

Tahunanui, Nelson +64 3 543 8275 +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 13 June 2022

Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020*

EPA Approval No: HSR100598

Pictograms

Telephone:

Fax Number:





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity	H373	May cause damage to organs through
repeated exposure Category 2	11373	prolonged or repeated exposure.
Hazardous to the aquatic	H411	Toxic to aquatic life with long lasting
environment chronic Category 2	11411	effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms.
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid unintended release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.

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concer spinage.	
Storage Statement	

Storage Code	Storage Statement
None	Not applicable

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as
	hazardous substances in accordance with local and national regulations
	using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or
	landfill. Do not allow product to enter waterways. Do not burn product or
	container.

Section 3. Composition / Information on Ingredients

Collect spillage

Ingredients	Wt%	CAS NUMBER.
Metamitron	30.7	41394-05-2
Ethofumesate	13.2	26225-79-6
Propane-1,2-diol	1-5	57-55-6
Organic phosphoric ester	1-<5	Proprietary
Non-hazardous	To bal	-

Section 4. First Aid Measures

Routes of Exposure:

P391

If in Eyes Rinse cautiously with water for 15 minutes. 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 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. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Inhaled: Not applicable.
Ingestion: Not applicable.
Skin. Not applicable.

Chronic: May cause damage to organs through repeated or prolonged exposure.

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Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable.
Hazards from	Carbon oxides (CO, CO2) sulphur oxides (SO2, SO3).
combustion products	
Suitable	SMALL FIRE: Use DRY chemical powder.
Extinguishing	LARGE FIRE: Use water spray, fog or foam.
media	Do not use water jet.
Precautions for	Fire fighters should wear positive pressure self-contained breathing
firefighters and	apparatus (SCBA) and full turnout gear.
special protective	
clothing	
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Evacuate area from unnecessary personnel. Ensure sufficient supply of air. Avoid inhalation and contact with eyes or skin.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Reposition any leaking containers so as to minimise further leakage. Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite). Shovel the absorbed spill into drums. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Disposal of the absorbed material will depend upon the extent of the spill. Contaminated material must be disposed of in accordance with all local authority requirements.

- For quantities up to 50 L of product bury in a secure approved landfill site.
- For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Prevent formation of explosive mixtures.
- Avoid unintended release to the environment.
- When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection.
 Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store in a well-ventilated place. Keep container tightly closed.
- Only store at temperatures from -5°C to 35°C.
- Effects with light as well as warmth.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed, seeds, fertilisers or foodstuffs.

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 As an environmentally hazardous substance with aquatic ecotoxicity classifications, storage of GOLTIX UNO Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the Hazardous Substances (Hazardous Property Controls) Notice 2017.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m3	STEL ppm mg/m3
Propane-1,2-diol [57-55-6]	150	474	
Vapour and particulates	120	4/4	
Particulates only		10	

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 2019 11TH EDITION.

Engineering Controls

In workplace ensure good ventilation. Wash hands thoroughly after handling.

Personal Protection Equipment

Eyes	Safety goggles or face shield.
Hands and Skin	When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection. Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.
Respiratory	Respiratory protection is not required if good ventilation is maintained.
General	Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing.

Section 9 Physical and Chemical Properties

Appearance	White, beige, liquid, viscous
Odour	Slightly
Odour Threshold	Not applicable
pH 1%	6,42 (CIPAC MT 75)
Boiling Point	Not applicable
Melting Point	Not applicable
Flash Point	> 104°C (DIN EN 227 19)
Flammability	Not applicable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure	Not applicable
Vapour Density (air=1)	2,3 -6 hPa (20°C)
Density (g/ml)	1,14 (20°C)
Specific Gravity	Not applicable
Solubilities	Dispersion
Partition coefficient	log Pow 0,85 (21°C)*, log Pow 2,69 ** (OECD 107)
(n-octanol/water):	
Auto Flammability	485° C (EEC A14, DIN 51794)
Viscosity:	134,1 mPas/20°C, 116,9 mm2/s20°C (OECD 114)
Surface tension:	39,3 mN/m (90%, 20°C) (EEC A5)

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Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Conditions to Avoid	Protect from frost.	
Incompatible Materials	Avoid contact with other chemicals. Avoid contact with strong oxidizing agents.	
Hazardous Decomposition Products	Oxides of carbon, oxides of nitrogen & oxides of Sulphur.	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered. LD50 (rat) = >2000 mg/kg	
Dermal	Not triggered. LD50 (rat) > 4,000 mg/kg	
Inhalation	Not applicable.	
Eye	Not applicable.	
Skin	Not applicable.	

Chronic Effects:

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

Individual component information:

Acute Toxicity:

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation – LC50
Metamitron (41394-05-2)	650 mg/kg (dog)	1000mg/kg (Rat)	0.206mg/l (mouse)
			(dust/mist)

Section 12. Ecotoxicological Information

HSNO Classes: Hazardous to the aquatic environment chronic Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

On product:

Persistence and degradability: Not readily biodegradable*

Behaviour in sewage plants: EC50 = 2188 mg/l

Toxicity to fish: LC50 141 mg/l/96h, NOEC 12,5mg/l (OECD 203)

Toxicity to daphnia: EC50 62,4 mg/l/48h, NOEC 22,3 mg/l, LOEC 40, 1 mg/l (OECD 202) EbC50 2,83 mg/l/72h, ErC50 6,53 mg/l/72h, NOEC 2,92 mg/l, LOEC

5,25 mg/l (OECD 201)

Common name: Metamitron

Mobility: Soil – Low mobility.

Persistence/degradability: Soil:

The product is non persistent Half-life time (t½): 30-90 days

Degradation is primarily via: microorganisms.

Water:

Hydrolytic DT50 $t\frac{1}{2}$: 143 d at pH 5 (25°C)

DT50 t½: 132 d at pH 7 (25°C)

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DT50 $t\frac{1}{2}$: 17.5 d at pH 9 (25°C)

Inherently degradable: > 79% in 28 days.

Water pollution class (WGK): 2 - impairment of water

quality.

Ecotoxicity: **Fish:**

LC50 (96 hours) = 443 mg/L; golden orfe (Leuciscus melanotus) LC50 (96 hours) = 326 mg/L; rainbow trout (oncorphynchus

mykiss)

LC50 (96 hours) = 194 mg/L; carp (Cyprinus carpio)

Daphnia;

EC50 (48 hours) = 101.7 mg/L; Water flea (Daphnia magna)

Algae

Growth rate:

IC50 (72 hours) = 1.8 mg/L; green alga (Selenastrum

capriconutum)

Ecotoxicity: Birds:

Japanese quail LD50 = 1,534 mg/kg

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Ensure container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush or puncture and bury in a suitable landfill. DO NOT reuse this container for any other purpose.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not allow product to enter waterways.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433



Road and Rail Transport

UN No: 3082
Class-primary 9
Packing Group III

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

(Contains Metamitron)

Air Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

(Contains Metamitron)

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

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Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

(Contains Metamitron)

Marine Pollutant Yes

Section 15 Regulatory Information

This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020*

EPA Approval Code: HSR100598

HSNO Classification: Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment chronic Category 2, Hazardous to soil organisms,

Hazardous to terrestrial vertebrates.

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	1000L		
Emergency Response Plan (Schedule 5)	1000L		
Secondary Containment (Schedule 16)	1000L		
Tracking (Schedule 26)	Not required		
Record Keeping	Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for		
	details.		
HSNO Additional Controls (Restrictions			
77A	The method of application of the substance shall be limited to ground-based application only.		
Hazardous Property Controls Notice 20	17		
HPC Notice Part 3	Hazardous substances in a place other than a workplace.		
HPC Notice Part 4 Subpart A	Substances that are hazardous to the		
,	environment: Site and storage controls.		
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment.		
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous		
	substances must be appropriate.		
HPC Notice Part 4 Clause 50	The maximum application rate for GOLTIX UNO Herbicide shall be 2 L/ha (0.3078 kg ethofumesate/ha and 0.7142 kg metamitron/ha), with a maximum application frequency of 3 applications per season and a minimum application interval of 5 days.		
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic environment must not be applied to water.		
HPC Notice Part 4 Subpart C	Qualifications required for the application of substances that are hazardous to the environment.		
For all further controls:	Refer to EPA website www.epa.govt.nz for controls document - HSR100598		
ACVM Act and Regulations			
ACVM Approval No	P8475		
See <u>www.foodsafety.govt.nz</u>			
for registration conditions.			

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Section 16 Other Information

Glossary

ACVM Agricultural Compounds and Veterinary Medicines Act 1997.

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority.

HSNO Hazardous Substances and New Organisms Act 1996.

HSW Health and Safety at Work Act 2015.

HSW (HS) Regulations Health and Safety at Work (Hazardous Substances) Regulations

2017.

LC50 Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD50 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 2020

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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Issue Date: 13 June 2022 Review Date: 13 June 2027

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