



## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Goltix Uno SC 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  
Telephone: +64 3 543 8275  
Fax Number: +64 3 543 8274  
**Emergency Telephone: 0800 764 766 (National Poison Centre)**  
Date of SDS Preparation: 3 December 2020 v 2

### Section 2. Hazards Identification

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

**EPA Approval No:** HSR100598

#### Pictograms



Acute Toxic   Chronic Toxic   Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1C (inh)	H331	Toxic if inhaled.	Acute Tox. 3
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2A	H421	Very toxic to the soil environment.	
9.3C	H433	Harmful 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.
P264	Wash hands thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Storage Code	Storage Statement
P405	Store locked up.

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

Ingredients	Wt%	CAS NUMBER.
Metamitron	30.7	41394-05-2
Ethofumsat	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:

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:

<b>Inhaled:</b>	Toxic if inhaled.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Skin.</b>	Not applicable.
<b>Chronic:</b>	May cause damage to organs through repeated or prolonged exposure.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable.
<b>Hazards from combustion products</b>	Carbon oxides (CO, CO <sub>2</sub> ) sulphur oxides (SO <sub>2</sub> , SO <sub>3</sub> ).
<b>Suitable Extinguishing media</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>HAZCHEM CODE</b>	<b>2X</b>

## 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.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Ensure good ventilation.
- Prevent formation of explosive mixtures.
- Avoid 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 locked up.
- 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 or foodstuffs. As a Class 9 Substance with 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 (NZS 8409:2004) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Propane-1,2-diol [57-55-6]				
Vapour and particulates	150	474		
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 2017 9<sup>TH</sup> EDITION.

### Engineering Controls

In workplace ensure good ventilation. Wash hands thoroughly after handling. Wash clothing before re-using.

### Personal Protection Equipment



<b>Eyes</b>	Safety goggles or face shield.
<b>Hands and Skin</b>	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.
<b>Respiratory</b>	For higher level protection use type N100 (US) or type P3 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards.
<b>General</b>	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

<b>Appearance</b>	White, beige, liquid, viscous
<b>Odour</b>	Slightly
<b>Odour Threshold</b>	Not applicable
<b>pH 1%</b>	6,42 (CIPAC MT 75)
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Flash Point</b>	> 104°C (DIN EN 227 19)
<b>Flammability</b>	Not applicable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air=1)</b>	2,3 -6 hPa (20°C)

<b>Density (g/ml)</b>	1,14 (20°C)
<b>Specific Gravity</b>	Not applicable
<b>Solubilities</b>	Dispersion
<b>Partition coefficient (n-octanol/water):</b>	log Pow 0,85 (21°C)*, log Pow 2,69 ** (OECD 107)
<b>Auto Flammability</b>	485° C (EEC A14, DIN 51794)
<b>Viscosity:</b>	134,1 mPas/20°C, 116,9 mm <sup>2</sup> /s20°C (OECD 114)
<b>Surface tension:</b>	39,3 mN/m (90%, 20°C) (EEC A5)

## Section 10. Stability and Reactivity

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

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	May be harmful if swallowed. LD50 (rat) = >2000 mg/kg
<b>Dermal</b>	Not triggered. LD50 (rat) > 4,000 mg/kg
<b>Inhalation</b>	Toxic if inhaled.
<b>Eye</b>	Not applicable
<b>Skin</b>	Not applicable

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	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: 9.1B = Toxic to aquatic life.  
9.2A = Very toxic to the soil environment.  
9.3C = Harmful 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)  
Toxicity to algae: EbC50 2,83 mg/l/72h, ErC50 6,53 mg/l/72h, NOEC 2,92 mg/l, LOEC 5,25 mg/l (OECD 201)

<b>Common name:</b>	<b>Metamitron</b>
Mobility:	Soil – Low mobility.
Persistence/degradability:	Soil: The product is non persistent Half-life time (t <sub>1/2</sub> ): 30-90 days Degradation is primarily via: microorganisms.
	<b>Water:</b>
	Hydrolytic DT50 t <sub>1/2</sub> : 143 d at pH 5 (25°C) DT50 t <sub>1/2</sub> : 132 d at pH 7 (25°C) DT50 t <sub>1/2</sub> : 17.5 d at pH 9 (25°C) Inherently degradable: > 79% in 28 days. Water pollution class (WGK): 2 – impairment of water quality.
Ecotoxicity:	<b>Fish:</b> LC50 (96 hours) = 443 mg/L; golden orfe ( <i>Leuciscus melanotus</i> ) LC50 (96 hours) = 326 mg/L; rainbow trout ( <i>oncorphynchus mykiss</i> ) LC50 (96 hours) = 194 mg/L; carp ( <i>Cyprinus carpio</i> )
	<b>Daphnia;</b> EC50 (48 hours) = 101.7 mg/L; Water flea ( <i>Daphnia magna</i> )
	<b>Algae</b> Growth rate: IC50 (72 hours) = 1.8 mg/L; green alga ( <i>Selenastrum capricornutum</i> )
Ecotoxicity:	<b>Birds:</b> 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](http://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 5433:2012**



#### Road and Rail Transport

UN No:	2763
Class-primary	6.1
Packing Group	III
Proper Shipping Name:	Triazine Pesticide, Solid, Toxic (Contains Metamitron)

#### Air Transport

UN No:	2763
--------	------

Product Name: Goltix Uno SC Herbicide  
Date of SDS: 3 December 2020

Issued by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 [www.techcomp.co.nz](http://www.techcomp.co.nz)

Class-primary 6.  
Packing Group III  
Proper Shipping Name: Triazine Pesticide, Solid, Toxic (Contains Metamitron)

**Marine Transport**

UN No: 2763  
Class-primary 6.1  
Packing Group III  
Proper Shipping Name: Triazine Pesticide, Solid, Toxic (Contains Metamitron)  
Marine Pollutant Yes

**Special Provisions:**

If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**National Transport Regulations:** Do not carry this product on a passenger service vehicle.

**Section 15 Regulatory Information**

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

EPA Approval Code: HSR100598  
HSNO Classification: 6.1C(inh), 9.1B, 9.2A, 9.3C

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L(9.1B)
Emergency Response Plan (Schedule 5)	100L (6.1C)
Secondary Containment (Schedule 5)	100L (6.1C)
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.
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	<p>a). This substance must not be applied onto or into water.</p> <p>b). 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.</p> <p>c). The method of application of the substance shall be limited to ground based application only.</p>
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 2	Certain substances restricted to workplaces only.
HPC Notice Part 3	Hazardous substances in a place other than a workplace.

HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
For all further controls:	Refer to EPA website <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls document - HSR100598
<b>ACVM Act and Regulations</b>	
ACVM Approval No	P8475
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.	

## Section 16 Other Information

### Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
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 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

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

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

Issue Date: 3 December 2020

Review Date: 3 December 2025