



## SAFETY DATA SHEET

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

Product: **Goltix Flo SC Herbicide**  
Chemical name of active Ing: 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4H)-one  
Product Use: For pre- and post-emergence use for the control of certain weeds 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: 25 June 2020

### Section 2. Hazards Identification

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

**EPA Approval No:** HSR100753

#### Pictograms



Toxic

Ecotoxic

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement                    | GHS Category    |
|---------------------|-------------|-------------------------------------|-----------------|
| 6.1B (inh)          | H330        | Fatal if inhaled.                   | Acute Tox. 2    |
| 6.1D (oral)         | H302        | Harmful if swallowed.               | Acute Tox. 4    |
| 6.1D (dermal)       | H312        | Harmful in contact with skin.       | Acute Tox. 4    |
| 9.1A                | H400        | Very toxic to aquatic life.         | Aquatic Acute 1 |
| 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.                     |
| P280 | Wear protective clothing as detailed in Section 8.    |
| P284 | Wear respiratory protection as detailed in Section 8. |

| <b>Response Code</b> | <b>Response Statement</b>   |
|----------------------|---|
| P101                 | If medical advice is needed, have product container or label at hand.                     |
| P310                 | Immediately call a POISON CENTER or doctor/physician.                                     |
| P330                 | Rinse mouth.  |
| P363                 | Wash contaminated clothing before reuse.  |
| P391                 | Collect spillage.   |
| P301 + P312          | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.                |
| P302 + P352          | IF ON SKIN: Wash with plenty of soap and water.   |
| P304 + P340          | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |

| <b>Storage Code</b> | <b>Storage Statement</b>   |
|---------------------|--|
| P405                | Store locked up.   |
| P403 + P233         | Store in a well-ventilated place. Keep container tightly closed. |

| <b>Disposal Code</b> | <b>Disposal Statement</b>   |
|----------------------|---|
| 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**

| <b>Ingredients</b> | <b>Wt%</b> | <b>CAS NUMBER.</b> |
|--------------------|------------|--------------------|
| Metamitron         | 55-60      | 41394-05-2         |
| 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:**

**Inhaled:** Fatal if inhaled.

**Ingestion:** Harmful if swallowed.  
**Skin.** Harmful if in contact with skin.  
**Chronic:** Not applicable.

**Notes to a physician:**

There is no specific antidote. Treat symptomatically and give supportive therapy.

**Section 5. Fire Fighting Measures**

|   |  |
|---|--|
| <b>Hazard Type</b>  | Non Flammable.   |
| <b>Hazards from combustion products</b>                             | Carbon monoxide, hydrogen cyanide, nitrogen oxides.  |
| <b>Suitable Extinguishing media</b>                                 | Dry chemical, water spray, foam, carbon dioxide.   |
| <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.

**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.
- Ventilation is required to prevent dust generation.
- 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.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed, seeds, fertilisers or foodstuffs.
- As a Class 9 Substance with Ecotoxicity Classifications storage of GOLTIX FLO 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 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> |

Long term exposure limit 8 hour-Metamitron: 10 (inhal.dust); 4 (respire.dust)

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>      | Light beige liquid  |
| <b>Odour</b>           | Faint odour         |
| <b>Odour Threshold</b> | Not applicable      |
| <b>pH</b>              | 6.5-7.5 (Undiluted) |
| <b>Boiling Point</b>   | 100°C (water)       |
| <b>Melting Point</b>   | Not applicable      |
| <b>Flash Point</b>     | Not applicable      |
| <b>Flammability</b>    | Not applicable      |
| <b>Upper and Lower</b> | Not applicable      |

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Exposure Limits</b>                |                          |
| <b>Vapour Pressure</b>                | 0.86 @ 20°C (Metamitron) |
| <b>Density (g/ml)</b>                 | 1.21 @ 20°C              |
| <b>Specific Gravity</b>               | Not applicable           |
| <b>Solubilities</b>                   | Miscible                 |
| <b>Partition Coefficient:</b>         | Not applicable           |
| <b>Auto-ignition Temperature</b>      | Not applicable           |
| <b>Solid products combustibility:</b> | Not applicable           |
| <b>Log P octanol / water</b>          | 0.85 @ 21°C (Metamitron) |

## Section 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Stability of Substance</b>           | This product is stable under normal conditions. Thermal decomposition at 170°C (Metamitron)        |
| <b>Conditions to Avoid</b>              | None known.  |
| <b>Incompatible Materials</b>           | Oxidizing agents, acids and alkali.  |
| <b>Hazardous Decomposition Products</b> | Hydrogen Cyanide , nitrogen oxides (NO, NO <sub>2</sub> ) , carbon oxides (CO, CO <sub>2</sub> ) . |

## Section 11 Toxicological Information

### Acute Effects:

|                   |  |
|-------------------|--|
| <b>Swallowed</b>  | Harmful if swallowed. LD50 (rat) = 500-2000 mg/kg                                      |
| <b>Dermal</b>     | Harmful if in contact with skin. LD50 (rat) > 4,000 mg/kg                              |
| <b>Inhalation</b> | Fatal if inhaled. LD50 (rat) > 1.878 mg/L (4 hours) (maximum attainable concentration) |
| <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>                | Not applicable  |

### 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: 9.1A = Very toxic to aquatic life.  
9.2A = Very toxic to the soil environment.  
9.3C = Harmful to terrestrial vertebrates.

### On product:

96 H-LC50 - [mg/l] : >200 Rainbow trout  
48 H-EC50 - [mg/l] : 170 Daphnia magna

72 H-EC50 [mg /l] : 0.82 Algae  
LD50 Birds [mg/kg] : (Metamitron): Japanese quail =1,534  
Bees LD50 [µg/Bee] : (Metamitron): Oral & Contact: >100

**Common name:**

**Metamitron**

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.

**Water:**

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:

**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 capricornutum*)

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](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: 2998

Class-primary 6.1

Packing Group II

Proper Shipping Name: Triazine Pesticide, liquid, Toxic (Contains Metamitron)

Product Name: Goltix Flo SC Herbicide  
Date of SDS: 25 June 2020

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

**Air Transport**

UN No: 2998  
 Class-primary 6.1  
 Packing Group II  
 Proper Shipping Name: Triazine Pesticide, liquid, Toxic (Contains Metamitron)

**Marine Transport**

UN No: 2998  
 Class-primary 6.1  
 Packing Group II  
 Proper Shipping Name: Triazine Pesticide, liquid, Toxic (Contains Metamitron)  
 Marine Pollutant Yes

**Special Provisions:**

If the product's individual container is below 5L, 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.

|                   |                               |
|-------------------|-------------------------------|
| <b>Section 15</b> | <b>Regulatory Information</b> |
|-------------------|-------------------------------|

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

EPA Approval Code: HSR100753

HSNO Classification: 6.1B(inh), 6.1D(oral, dermal),9.1A, 9.2A, 9.3C

| HSW (HS) Regulations 2017                      | Trigger Quantity   |
|--|--|
| Certified Handlers                             | Yes – Any quantity (6.1B)  |
| Location Certificate                           | 250L (6.1B)  |
| Signage Trigger Quantities (Schedule 3)        | 100L(9.1A)   |
| Emergency Response Plan (Schedule 5)           | 100L (6.1B, 9.1A)  |
| Secondary Containment (Schedule 5)             | 100L(9.1A)   |
| Tracking (Schedule 26)                         | Any  |
| 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 of use) |  |
| 77A  | a). This substance must not be applied onto or into water.<br><br>b). The maximum application rate for AGPRO metamitron is 4.2 kg metamitron/ha, three times per year. |
| Hazardous Property Controls Notice 2017        |  |
| 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 - HSR100753  |

| <b>ACVM Act and Regulations</b>   |            |
|---|------------|
| ACVM Approval No  | P8802      |
| See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions. |            |
| <b>Tolerable Exposure Level (TEL)</b>   | No TEL set |
| <b>Environmental Exposure Level (EEL)</b>   | No EEL set |

| <b>Section 16</b> | <b>Other Information</b> |
|-------------------|--------------------------|
|-------------------|--------------------------|

#### 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

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

Issue Date: 25 June 2020                      Review Date: 25 June 2025