



SAFETY DATA SHEET

GOLTIX® FLO HERBICIDE

Section 1: Identification of the Substance and Supplier

Product name: GOLTIX FLO SC HERBICIDE
Chemical name: Metamitron: 4-amino-3-methyl-6-phenyl-1,2,4-triazine-5(4H)-one

Supplier: AGRONICA NEW ZEALAND LIMITED
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O. Box 1799, Nelson New Zealand.

Telephone +64 3 543 8275 Fax: +64 3 543 8274

Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: Classifications 6.1B, 9.1A, 9.2A, 9.3C



ACUTE TOXIC



ECOTOXIC

APPROVED HANDLER:

This product must be under the control of an approved handler during use

RECORD KEEPING - Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

TRACKING: This product must be tracked – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

Section 3. Composition/information on Ingredients

Information on hazardous ingredients *

Chemical name	CAS No.	%	EINECS,
Metamitron	41394-05-2	55-60	

Section 4: First-Aid Measures

Inhaled: Remove person from danger area and into fresh air. Seek medical help if necessary.
Eye: Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Swallowed: Give copious water to drink – consult doctor immediately. Keep Data Sheet available
Skin: Wash thoroughly using copious water- remove contaminated clothing immediately. If skin irritation occurs (redness etc.,) consult doctor.

Section 5: Fire-Fighting Measures

Extinguishing Media and methods: SMALL FIRE: Use DRY chemical powder, water spray carbon dioxide
LARGE FIRE: Use water spray, fog or foam.

Recommended Protective Clothing: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Hazchem code: 2X

Hazardous thermal (de)composition products Carbon oxides (CO, CO₂) nitrogen oxides (NO,NO₂), Hydrogen Cyanides



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Section 6: Accidental Release Measures

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection
Environmental Precautions:	Do not empty into drains. Do not discharge into the environment.
Procedure for Spill:	<ol style="list-style-type: none">(1) Keep all bystanders away.(2) Wear full length clothing and PVC gloves.(3) Reposition any leaking containers so as to minimise further leakage.(4) Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite).(5) Shovel the absorbed spill into drums.(6) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.
Procedure for Disposal:	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. <ul style="list-style-type: none">• 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

Handling:	Keep out of reach of children. Do not eat, drink or smoke while using. Ensure good ventilation 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.
Storage:	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

Industrial Hygiene:	In workplace ensure good ventilation. Wash hands thoroughly after handling. Wash clothing before re-using.
Hygiene measures:	When handling, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
TWA:[mg/m³]	Long term exposure limit 8 hour-Metamitron: 10 (inhal.dust); 4 (respire.dust)
Personal protective equipment:	
Respiratory system:	Respiratory protection is not required if good ventilation is maintained.
Skin and body:	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.
Eyes:	Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state	: Liquid
Colour	: Light Beige
Odour	: Faint odour



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pH value	: 6.5-7.5 (Undiluted)
Boiling point [°C]	: 100 (water)
Density [g/ml]	: 1.21 @ 20°C
Vapour pressure [µPa]	: 0.86 @ 20°C (Metamitron)
Solubility in water	: Miscible
Log P octanol / water	: 0.85 @ 21°C (Metamitron)
Flammability	: Not flammable
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing

Section 10: Stability and Reactivity

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Hydrogen Cyanide , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .
Materials to avoid	: oxidizing agents , acids , alkali .
Conditions to avoid	: Thermal decomposition at 170°C (Metamitron)

Section 11. Toxicological Information

On product	
Rat oral LD50 [mg/kg]	: 500-2,000
Rat dermal LD50 [mg/kg]	: > 4,000
Rat inhalation LC50 [mg/l/4h]	: >1.878 Maximum concentration attainable.
Dermal irritation (rabbit)	: Not irritant
Eyes irritation (rabbit)	: Not irritant
Sensitization	: Non sensitizer
Chronic toxicity	: Metamitron: : NOEL (rat)=250 mg/kg/day (2 years). : NOEL (mise)=56 mg/kg/day (2 years)
Carcinogenicity	: Metamitron: : EPA : Not classified : EU : Not classified : IARC : Not classified (Metamitron): NOAEL (rat)=300 mg/kg or 23.1 mg/kg/day (2 years)
Mutagenicity	: (Metamitron): Not mutagenic.
Reproductive toxicity	: (Metamitron): NOAEL (rat)= 100 mg/kg or 9.4 mg/kg/day

Section 12: Ecological Information

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
Persistence and degradability	: Metamitron: Soil : : The product is not persistent. Half-life time (t1/2) : 30-90 days.



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Degradation is primarily via: hydrolysis , microorganisms

: Metamitron: Water :

: Hydrolytic: Half-life time (t1/2) :143 days (pH 5) @ 25°C

Half-life time (t1/2) : 132 days (pH 7) @ 25°C

Half-life time (t1/2) : 17.5 days (pH 5) @ 25°C

Mobility

: Metamitron: Soil :

: Low mobility

does not leach to ground water

Section 13: Disposal Considerations

Product Disposal:

Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

Container Disposal:

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.



Section 14: Transport Information

UN Number	3082
Proper shipping name	Environmentally hazardous substance, Liquid, N.O.S, (METAMITRON)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	Yes
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation.

Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval:

Registered pursuant to the ACVM Act 1997, No. P8802
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR100753
See www.epa.govt.nz for approval conditions

HSNO Classifications: Classifications 6.1B, 9.1A, 9.2A, 9.3C



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Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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History:

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