



## Safety Data Sheet

# MITRON WG L 10921 (Act 36 of 1947)

Date of issue: 23/11/2020

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	Mitron WG
Other means of identification:	Metamitron 700 g/kg WG
Recommended use:	Crop protection product, herbicide.
Restrictions on use:	For use as an Agricultural remedy only.
UN No:	3077
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG: 021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4H)-one, 4-amino-4,5-dihydro-3-methyl-6-phenyl-1,2,4-triazin-5-one
2) Classification of the substance / mixture:	
Classification of the product is based on the co-formulants listed in section 3.	<p>Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.</p> <p>Acute Tox. Cat 4 (H302) Aquatic Acute. Cat 1 (H400) Hazardous to the aquatic. Cat 1(H410)</p> <p>According to Directive 67/548/EEC or 1999/45/EC R 22, R 50</p>
Label elements:	<p>Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.</p> <p>Hazardous components which must be listed on the label: <b>Metamitron</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Exclamation mark         </div> <div style="text-align: center;">  Environment         </div> </div> <p>Signal word: <b>Warning</b></p>

		<p><b>Hazard statement(S):</b>  H302: Harmful if swallowed  H410: Very toxic to the aquatic life with long lasting effect.</p> <p><b>Precautionary statements:</b>  P102: Keep out of reach of children.  P270: Do not eat, drink or smoke when using this product.  P501: Dispose of contents / container to an approved waste disposal plant.</p> <p><b>EU Specific Hazard Statements:</b></p> <p>EUH401: To avoid risks to human health and the environment, comply with the instructions for use.  EUH208: Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. May produce an allergic reaction.</p> <p>Additional phrases for PPP:  SP1 – Do not contaminate water with the product or its container.</p> <p><b>Other hazards:</b>  No other hazards known</p>			
<b>Hazards Identification:</b>					
<b>Health effects: eyes:</b>		Not irritating to eyes			
<b>Health effects: skin:</b>		Not a skin sensitizer			
<b>Health effects: ingestion</b>		May be harmful			
<b>Health effects: inhalation</b>		May be harmful			
<b>3) COMPOSITION / INFORMATION ON INGREDIENTS:</b>					
<b>Mixture:</b> Water dispersible granule (WDG)					
<b>Chemical name</b>	<b>composition</b>	<b>CAS No.</b>	<b>EC No.</b>	<b>Classification according to Regulation EC 1272/2008 (CLP)</b>	<b>Classification according to Directive 67/548/EEC</b>
Metamitron	70%	41394-05-2	255-349-3	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	Xn; R22 N; R50
Full text of symbols, R-phrases and S-phrases: see section 15.					
<b>4) FIRST AID MEASURES:</b>					
<b>Inhalation:</b>		<p>Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and at rest. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Maintain the airway and administer oxygen if required. Treat symptomatically and supportively.  Seek medical attention if irritation develops and persists.</p>			
<b>Skin contact:</b>		<p>Remove all contaminated clothing, shoes and leather goods immediately. Gently wipe off any excess chemical. Wash skin thoroughly and gently with water and soap until no evidence of chemical remains (approximately 15 – 20 minutes). Do not rub the skin. Seek medical attention if irritation develops and persists. Persons who become sensitized may require specialized medical management with anti-inflammatory agents.</p>			

<p><b>Eye contact:</b></p> <p><b>Ingestion</b></p> <p><b>Most important symptoms and effects, acute and delayed:</b></p> <p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	<p>Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. Seek medical assistance immediately.</p> <p>Rinse mouth and have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave the victim unattended. Vomit should not get into the respiratory tract. Seek medical assistance if irritation persists.</p> <p>None Known.</p> <p>No specific antidote is available. Treat symptomatically and supportively.</p>
<p><b>5) FIRE-FIGHTING MEASURES:</b></p>	
<p><b>Suitable extinguishing Media:</b></p> <p><b>Unsuitable extinguishing media:</b></p> <p><b>Fire Fighting:</b></p>	<p>Use extinguishing measures appropriate to local circumstances and the surrounding environment.</p> <p>Do not use high volume water jet, due to contamination risk.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>During a fire, the formation of carbon monoxide, carbon dioxide, sulphur dioxide, nitrogen oxide and ammonia must be expected. These products are toxic and/or irritant. Exposure to decomposition products may be a health hazard. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk.</p>
<p><b>Protective clothing:</b></p>	<p>Full protective clothing and self-contained breathing apparatus</p>
<p><b>6) ACCIDENTAL RELEASE MEASURES:</b></p>	
<p><b>Personal precautions:</b></p> <p><b>Occupational spill:</b></p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by</p>

	<p>incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p> <p>Generating poisonous and corrosive fumes.</p>
<b>7) HANDLING &amp; STORAGE:</b>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Avoid skin and eye contact, contact with clothing and inhalation of dust or spray mist. Use in a well-ventilated area.</p> <p>APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.</p> <p>Keep the container tightly closed. Prevent the formation of dust deposits and whirling-up of dust. Wash hands before eating, drinking, smoking or using the toilet.</p> <p>Store in original container tightly closed and in a locked, dry, cool, well-ventilated area (at temperatures below 54 °C) away from food, drink, animal feedstuffs and unauthorised personnel. Keep away from children, uninformed persons or animals.</p> <p>Compatible materials for storage: high-density polypropylene (HDPP).</p> <p>Incompatible materials for storage: None known.</p> <p>Observe the rules contained in the VCI concept for separate / common storage.</p> <p>Keep the container off of wet floors.</p>
<b>8) EXPOSURE CONTROL / PERSONAL PROTECTION:</b>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p>Components with workplace control parameters</p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p><b>Engineering Controls: Ensure adequate ventilation, especially in confined areas</b></p> <p>Suitable chemically resistant protective clothing.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>Respiratory protection: Respirator with filter for organic vapour.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles with side shields is recommended. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<b>9) PHYSICAL &amp; CHEMICAL PROPERTIES:</b>	
<b>Form:</b>	Granules
<b>Colour:</b>	Pale yellow to brown
<b>Odour:</b>	Characteristic odour
<b>Odour threshold</b>	No data available
<b>Solubility:</b>	Disperses in water

<b>pH:</b>	6.5 – 8.5
<b>Melting point / Freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point:</b>	Not flammable
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas)</b>	Non-flammable
<b>Upper/ lower flammability or explosive limits:</b>	No hazard is expected as long as the product is used appropriately and in accordance with the intended use.
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies)</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Oxidative properties</b>	No oxidizing properties
<b>Wettability</b>	38 seconds
<b>Dustiness (collected dust, mg)</b>	22
<b>10) STABILITY &amp; REACTIVITY:</b>	
<b>Reactivity:</b>	No hazardous reactions known. Hazardous polymerisation does not occur. Combustion or thermal decomposition will evolve toxic and irritating vapours of chlorine and nitrous oxides. Spray solutions containing this product should be mixed or applied using stainless steel, aluminium, fiberglass or plastic-lined containers. Compatible with most herbicides at normal rates, but flocculation may occur.
<b>Chemical stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Avoid strong basic, acidic or oxidising materials.
<b>Hazardous decomposition product(s):</b>	None under normal conditions of storage and of use.
<b>Conditions to avoid:</b>	Avoid dust formation.
<b>Incompatible materials:</b>	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Acids and bases.
<b>11) TOXICOLOGICAL INFORMATION: Based on data for formulated product</b>	
<b>Acute Oral</b> : >1400 mg / kg. <b>Acute Dermal</b> : > 5000 mg / kg <b>Acute Inhalation</b> : Rat, 4 hour, LC50 > 3.17 mg/L air <b>Aspiration toxicity:</b> NA <b>Skin irritation:</b> Not an irritant <b>Eye irritation</b> : Rabbit: Not an irritant <b>Sensitization</b> : Guinea pig: Not a sensitizer <b>STOT - Repeated dose toxicity</b> <b>Metamitron:</b> N/A	

**STOT - Single dose toxicity**

Metamitron: N/A

**Mutagenicity**

Metamitron: N/A

**Carcinogenicity:**

Metamitron: Not Carcinogenic

**Reproductive toxicity:**

Metamitron: Not toxic for the reproductive system.

**Teratogenicity:**

Metamitron: N/A

**Aspiration hazard:**

Metamitron: N/A

**12) ECOLOGICAL INFORMATION:**

**Bees** : LD50 (oral) >100 µg/bee; (contact), >97.2 µg/bee (oral).

**Birds** : Acute oral LD50 for Japanese quail 1302 (female), 1358 (male) mg/kg. Dietary LC50 for bobwhite quail and mallard ducks >5000 mg/kg diet.

**Fish** : LC50 (96 h) for golden orfe 443, rainbow trout 326 mg/l.

**Daphnia** : LC50 (48 h) 5.7 mg/l.

**Algae** : ErC50 for *Scenedesmus subspicatus* 1.8 mg/l.

**Earthworm**: LC50 for *Eisenia fetida* >1000 mg/kg soil.

**Persistence and degradability:**

In soil, metamitron is degraded very rapidly; 20% of the applied material was detectable after 4–6 weeks. Leaching behaviour can be classified as medium mobile; no leaching into groundwater occurred. Rapid photodecomposition on soil surfaces and in aqueous solution is an important process for the degradation of metamitron in the environment.

**Abiotic degradation:**

Water: DT50: 10.8 – 11.4 days

Soil: DT50: 2 - 45 days

**Biodegradability:** Not readily biodegradable

**Bioaccumulative potential**

Metamitron: Partition Coefficient (n-octanol / water): Log Pow: 0.85

**Bioconcentration factor (BCF)**

Metamitron: N/A

**Mobility in soil**

Adsorption / Desorption: Metamitron Koc: 122.3

**Results of PBT and vPvB assessment**

PBT and vPvB assessment: This substance is not considered to be persistent, bio accumulative and toxic (PBT). This substance is not considered to be very persistent and very bio accumulative (vPvB).

**Other adverse effects:**

Additional ecological information: No other effects to be mentioned.

**13) DISPOSAL CONSIDERATIONS:****Waste Disposal:**

Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be re-used or re-processed. Do not contaminate ponds, waterways or ditches with any chemical or used container. Do not dispose of

waste into the sewer. Where possible, recycling is preferable to disposal or incineration. If recycling is not practicable, dispose of in accordance with local and national regulations  
Do not contaminate water, food or feed by disposal.

**Container Disposal:** Refer to the product label for instructions.

Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to at least 30% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

#### 14) TRANSPORTATION INFORMATION:

UN NUMBER: 3077

**Road Transport ADR/ RID:**

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Metamitron)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

**Maritime Transport IMDG / IMO:**

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Metamitron)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

MARINE POLLUTANT

**Air (ICAO / IATA):**

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Metamitron)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

#### 15) REGULATORY INFORMATION:

**Safety, health and environmental regulations / legislation specific for the substance or mixture.**

To avoid risks to man and the environment, comply with all instructions for use.

Advice on handling of the product can be found in sections 7 and 8 of this safety data sheet.

Labelling according to EC directives:

Hazardous components which must be listed on the label: Metamitron.

**Symbol(s):**



N : Dangerous for the environment.

**R-phrases(S):**

R22: Harmful if swallowed.

R 36/38: Irritating to eyes and skin

R43: May cause sensitisation by skin contact.

R48: Danger of serious damage to health by prolonged exposure.

R50/53: Very toxic to aquatic organisms, may cause long – term adverse effects in the aquatic environment.

**S-phrases(S):**

S1/2: Keep locked up and out of reach of children.  
S3/79: Keep container tightly closed in a cool, well-ventilated place.  
S13: Keep away from food, drink and animal feeding stuffs.  
S15: Keep away from heat.  
S20/21: When using, do not eat drink or smoke.  
S24/25: Avoid contact with skin and eyes.  
S26 : In case of contact with eyes, rinse immediately with plenty of water.  
S29 : After contact with skin wash immediately with water.  
S35 : This material and its container must be disposed of in a safe way.  
S36/37/39 : Wear suitable protective clothing, gloves and eye / face protection.  
S45 : In case of an accident or if you feel unwell, seek medical advice.  
S57: Use appropriate containment to avoid environmental contamination.  
S60 : This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**Hazard Statement (S)**

H301: Toxic if swallowed.  
H310: Fatal in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statement (S):**

P260: Do not breathe (dust/fume/gas/mist/vapors/spray).  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves / protective clothing / eye protection  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P314: Get medical attention/advice if you feel unwell.  
P333+313: If skin irritation or rash occurs, seek medical advice / attention.  
P362+364: Take off contaminated clothing and wash it before reuse.  
P391: Collect spillage.

**Remarks**

Classified using all GHS hazard classes and categories. In cases where the GHS contains options, the most conservative option has been selected. Regional or national implementations of GHS may not implement all hazard classes and categories.

**16) OTHER INFORMATION:**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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