

Safety Data Sheet

METRIBUZIN 75WG - Reg. No: L 9011 (Act No 36 of 1947)

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	METRIBUZIN 75WG
Other means of identification:	Metribuzin 750 g/kg WG
UN number:	3077
Recommended use:	Herbicide
Restrictions on use:	Agriculture
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 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	4-amino-6-tert-butyl-4,5-dihydro-3-methylthio-1,2,4triazin-5-one; 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one
2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product:	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin irritation,2(H315) Eye irritation,2 (H319) Acute Tox. 4(H403) N; Xn; R20/22; R37/38; R50/53 Full text of R-phrases; see section 15
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: METRIBUZIN</p> <p>Hazard pictogram(s): </p> <p>Signal Word: WARNING</p> <p>Hazard statement(s): H303: May be harmful if swallowed H315: Causes skin irritation.</p>

	H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects. Precautionary statement(s): P102: Keep out of reach of children. P270; Do not eat, drink or smoke when using this product. P280; Wear protective gloves/ protective clothing. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P391: Collect spillage. P501; Dispose of contents/ container to an approved waste disposal plant.				
Health effects: eyes:	May cause eye severe irritation.				
Health effects: skin:	May cause skin irritation and may be harmful.				
Health effects: ingestion	May cause irritation and may be fatal.				
Health effects: inhalation	May cause irritation and may be fatal.				
Health effects: Other	None Known.				
3) COMPOSITION / INFORMATION ON INGREDIENTS:					
Mixture:					
Chemical name	composition	CAS No.	EC No.	Classification according to Regulation 1272/2008 (CLP) to EC	Classification according to Directive 199/45/EC
Metribuzin	75 %	21087-64-9	21087-64-9	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Xn; R22 N; R50-53
Kaolin	±1.2%	1332-58-7	296-473-8	-	
Ammonium Sulphate	±0.5%	7783-20-2	1272/2008	Skin irritation,2(H315) Eye irritation,2 (H319) Acute Tox. 4(H403)	
Other					
Full text of R- and S-phrases: see section 15.					
4) FIRST AID MEASURES:					
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.				
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist.				
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. One or two glasses of water may be given. For advice, contact the National Poisons Centre. Seek medical assistance immediately.				
Inhalation:	Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.				
Most important symptoms and effects, acute and delayed:	No data available.				
Indication of immediate medical attention and special treatment needed: Advice to physician	No specific antidote is available Treat symptomatically and supportively. The product contains solvent that may cause chemical pneumonitis if aspirated into lungs. Onset of pulmonary injury may be delayed. Perform gastric lavage if ingested and administer activated charcoal.				

5) FIRE-FIGHTING MEASURES:	
Suitable extinguishing media:	Water fog, Carbon dioxide or dry chemical, halon or alcohol-resistant foam.
Unsuitable extinguishing media:	Do not use high volume water jet, due to contamination risk.
Special hazards arising from the substance or mixture:	Fire may produce irritating or poisonous vapours (toxic oxides of nitrogen and corrosive bromine), mists or other products of combustion
Fire-fighting:	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Generating poisonous and corrosive fumes. Keep upwind.</p> <p>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.</p> <p>Do not scatter the material. Bund area with sand or earth to avoid pollution of waterways. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage.</p> <p>Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.</p> <p>Product may generate toxic and / or irritating fumes during a fire.</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus.
6) ACCIDENTAL RELEASE MEASURES:	
Personal precautions:	Do not inhale vapour or spray. Avoid contact with skin and eyes. For personal protection see section 8.
Environmental precautions:	Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.
Cleaning procedure:	Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical
Disposal:	<p>Waste Disposal:</p> <p>In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the</p>

9) PHYSICAL & CHEMICAL PROPERTIES:	
Form: Colour: Odour: Odour threshold: pH: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Granule cream Characteristic odour No data available 7.5-9.2 No data available No data available Does not flash N/A Flammable No data available No data available 0.121 mPa @ 25°C (Metribuzin) ±1.6 g/L Suspends in water No data available Kow LogP 1.75 @ 25oC (Metribuzin)
10) STABILITY & REACTIVITY:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	No hazardous reactions if stored and handled as indicated / prescribed. Stable under normal use and standard conditions. Stable for 24 months. Fire may produce harmful combustion products, such as carbon monoxide and organic components, which are toxic and irritating. Protect from direct sunlight. Strong acids, strong bases, strong oxidizing agents.
11) TOXICOLOGICAL INFORMATION:	
Acute: Oral LD ₅₀ > 5 00 mg/kg, Female 300 mg/kg rat Dermal LD ₅₀ > 20 000 mg/kg, rat Inhalation LC ₅₀ (4h): for rats > 0.65 mg/L, rat. Eye Contact : Non-irritant Skin Contact : Non-irritant Skin Sensitization : Animal test did not cause sensitization by skin contact, guinea pig. Repeated dose toxicity: No data available Mutagenicity: No data available Carcinogenicity: No data available Reproductive toxicity: No data available Teratogenicity: No data available	

12) ECOLOGICAL INFORMATION: Information below based on active ingredient- METRIBUZIN

Bees: LD₅₀ >(oral) >35 µg/bee

Birds: LD₅₀ (14 d) (oral) for bobwhite quail 150 mg/kg, mallard ducks 460.680 mg/kg

Fish: LC₅₀ (96 h) for rainbow trout r rainbow trout 70 mg/L. Daphnia : LC₅₀ (48 h) 45 mg/l.

Algae: EC₅₀ for *Scenedesmus subspicatus* 0.021 mg/L.

Worms:

Other aquatic species

Persistence and degradation: Rapidly degraded in soil via microbial breakdown. Soil DT50 1–2 months; Water DT50 7 days.

13) DISPOSAL CONSIDERATIONS:

Waste Disposal: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

14) TRANSPORTATION INFORMATION:

UN Number: 3077

Road transport ADR/RID

Class: 9

Packing group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN)

Maritime transport IMDG/IMO

Environmental hazards: Marine pollutant: Yes

Class: 9

Packing group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN)

Marin pollutant: Yes

Air transport IATA-DGR

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METRIBUZIN)

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

15) REGULATORY INFORMATION:

Labelling according to EC directives:

Hazardous components which must be listed on the label: METRIBUZIN



Symbols:

Indication of danger: Harmful, Environmentally hazardous substance.

Risk – Phrase(s):

- R 20/22 - Harmful by inhalation and if swallowed.
- R 37/38 - Irritating to eyes, respiratory system and skin.
- R 50/53 - Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Safety – Phrase(s):

- S 1/2 - Keep locked up and out of reach children.
- S 13 - Keep away from food, drink and animal feeding stuffs.
- S 16 - Keep away from sources of ignition – No smoking.
- S 20/21 - When using do not eat, drink or smoke.
- S 23 - Do not breathe vapour/spray.
- S 24/25 - Avoid contact with skin and eyes.
- S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- 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 – phrase(s)

- H302 - Harmful if swallowed.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long-lasting effects.

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.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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