



Safety Data Sheet

ATRAZINE 900WG- Reg. No: L 8890 (Act No 36 of 1947)

Date of issue: 2010/04/03

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	ATRAZINE 900WG
Other means of identification:	Atrazine 900 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:	6-Chlor-N-Ethyl-N'-(1-methylethyl)1,3,5-triazine-2,4diamine (IUPAC)
2) Classification of the substance / mixture:	
Classification of the product:	Skin Sens. Cat. 1,H317 STOT RE Cat. 2,H373 Aquatic Acute Cat. 1,H400 Aquatic Chronic Cat.1, H410 Xn; Xi; T; N; R43; R48/22; R50-53; R61; R62; R68 Full text of phrases; see section 15
Label elements:	Hazard statement H410: Very toxic to the aquatic life with long lasting effects Precautionary statements: P410: Keep out of reach of children P501: Dispose of contents/ Container to an approved waste disposal plant. Pictogram:   Signal Word: Warning
Health effects: eyes:	May cause irritation.

Health effects: skin:	May cause irritation.
Health effects: ingestion	Not expected to cause injury by accidental ingestion
Health effects: inhalation	Temporary irritation may be experienced.
Health effects: Other	Possible risk of irreversible effects. . May cause harm to the unborn child. Possible risk of impaired fertility. Indicates no reproductive, teratogenic or mutagenic effects.

3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Atrazine	90%	1912-24-9	217-617-8	Skin Sens. Cat. 1, H317 STOT RE Cat. 2, H373 Aquatic Acute Cat. 1, H400 Aquatic Chronic Cat. 1, H410	Xn N; R48/22 R43 R50-53

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:	If more than 15 minutes from emergency medical care induce vomiting preferably using Ipecac Syrup (APF) Seek medical assistance immediately. If For advice, contact the National Poisons Centre.
Inhalation:	Remove patient to fresh air. 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:	
Indication of immediate medical attention and special treatment needed: Advice to physician	No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient

5) Fire-Fighting Measures:

Suitable extinguishing media:	Water fog or fine spray.
Unsuitable extinguishing media:	High volume water jet, due to contamination risk.
Special hazards arising from the substance or mixture:	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds

<p>Storage:</p>	<p>dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.</p>
<p>8) Exposure Control / Personal Protection:</p>	
<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><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</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.</p> <p>Wear respirator if ventilation is inadequate or exposure to high levels are likely</p> <p>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>
<p>9) Physical & Chemical Properties:</p>	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p> <p>pH:</p> <p>Melting point / Freezing point</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Auto-ignition temperature:</p> <p>Viscosity:</p>	<p>Powder</p> <p>White</p> <p>Characteristic</p> <p>No data available</p> <p>7</p> <p>176°C</p> <p>2015 °C/101 kPa</p> <p>Not flammable</p> <p>N/A</p> <p>No flammable</p> <p>No flammable</p> <p>Negligible at normal ambient temperature</p> <p>No data available</p> <p>No data available</p> <p>Miscible in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<p>10) Stability & Reactivity:</p>	

Reactivity:	Not available.
Chemical stability:	Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous decomposition product(s):	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Conditions to avoid:	None known – Store out of direct sunlight and keep away from sources of heat..
Incompatible materials:	Strong acids, strong bases, strong oxidizing agents.

11) Toxicological Information:

Acute:

Oral LD50 : 1869–3090 mg tech./kg, mice >1332–3992 mg/kg.

Dermal LD50 : >3100 mg/kg.;

Inhalation LC50 (4h): >5.8 mg/l air, rats. NOEL (2 y) for rats 10 mg/kg diet (0.5 mg/kg daily), for dogs 150 mg/kg diet (3.75 mg/kg daily), for mice 10 mg/kg diet (1.4 mg/kg daily).

Skin irritation : Mild irritant, rabbit

Eye irritation : Non-irritating to eyes (rabbits)..

Sensitisation : Skin sensitiser in guinea pigs, but not in humans

Other :

12) Ecological Information:

Information below based on active ingredient:

Bees: Bees LD50 (oral) >97 µg/bee; (contact) >100 µg/bee.

Birds: Acute oral LD50 varies from 940 mg/kg for bobwhite quail to >2000 mg/kg for mallard ducks and 4237 mg/kg for adult Japanese quail. Dietary LC50 (8 d) for Japanese quail (chicks) >5000, (adults) >1000 mg/kg.

Fish : LC50 (96 h) for rainbow trout 4.5–11.0, bluegill sunfish 16, carp 76, catfish 7.6, guppies 4.3 mg/l.

Algae : EC50 (72 h) for *Scenedesmus subspicatus* 0.043 mg/l, (96 h) for *Selenastrum capricornutum* 0.13 mg/l.

Worms: LC50 (14 d) for *Eisenia foetida* 78 mg/kg soil.

Other aquatic species: Long-term studies in aquatic ecosystems indicate no permanent damage up to 0.020 mg/l.

Environmental fate: Animals In mammals, following oral administration, atrazine is rapidly and completely metabolised, primarily by oxidative dealkylation of the amino groups (R. Ikonen et al., *Toxicol. Lett.*, 1988, 44, 109; *Bull. Environ. Contam. Toxicol.*, 1989, 43, 199; Y. Deng et al., *J. Agric. Food Chem.*, 1990, 38, 1411), and by reaction of the chlorine atom with endogenous thiols. Diaminochlorotriazine is the main primary metabolite, which readily conjugates with glutathione. More than 50% of the dose is eliminated in the urine and around 33% in the faeces within 24 hours. Plants In tolerant plants, atrazine is readily metabolised to hydroxyatrazine and amino acid conjugates, with further decomposition of hydroxyatrazine by degradation of the side-chains and hydrolysis of the resulting amino acids on the ring, together with evolution of CO₂. In sensitive plants, unaltered atrazine accumulates, leading to chlorosis and death. Soil/Environment Major metabolites under all conditions are desethylatrazine and hydroxyatrazine. Field DT50 16–77 d (median 41 d), the longer values being from cold or dry conditions. In natural waters, DT50 10–105 d (mean 55 d). DT50 under groundwater conditions 105– >200 d, depending on test system (M. J. Wood et al. (1991) In: A Walker (ed.), *Pesticides in soils and water: current perspectives*, BCPC Monograph no. 47, pp. 175–182). Kd 0.2–18 ml/g, Koc 39–173 ml/g; desalkylated metabolites

had values similar to those of atrazine, while hydroxyatrazine was much more strongly adsorbed.

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

IMO hazardous description:

Road, Rail & Barge : Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Atrazine) Truck - Label: 9

Rail - Hazard Label: 9

Barge – Hazard Label: 9

UN Number: 3077

Sea Transport: Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

N.O.S. (Atrazine)

Sea - IMO/IMDG Class: 9

UN Nr: 3077

Hazard Label: 9

Packing Group: III

Marine Pollutant: N

Air transport IATA/ICAO: Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

N.O.S. (Atrazine)

Air-ICAO/IATA

Class : 9

UN Nr : 3077

Hazard Label: 9

Class: 9

Packing group: III

Hazard label: 9, EHSM

15) Regulatory Information:

Contains : Atrazine

Symbols: Xn – Harmful

Xi – Irritant

T – Toxic

N – Dangerous for the environment

Risk – Phrase (s):

- R43 – May cause sensitisation by skin contact.
- R48/22 – Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R50-53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R61 – May cause harm to the unborn child.
- R62 – Possible risk of impaired fertility.
- R68 – Possible risk of irreversible effects.

Safety – Phrase (s):

- S2 – Keep out of reach of children.
- S13 – Keep away from food, drink and animal feeding stuffs.
- S20/21 – When using, do not eat, drink or smoke.
- S22 – Do not breathe dust.
- S24/25 – Avoid contact with skin and eyes.
- S28 – After contact with skin, wash immediately with plenty of water.
- S36/37 – Wear suitable protective clothing and gloves.
- S46 – If swallowed, seek medical advice immediately and show this container or label.
- 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 Statements (s)

- H317 – May cause an allergic skin reaction.
- H373 – May cause damage to organs through prolonged or repeated exposure.
- 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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