


## Safety Data Sheet

# FORTRESS L9269 (Act 36 of 1947)

Date of issue: 14/04/2011  
Date of revision: 27/07/2015

1) PRODUCT AND COMPANY IDENTIFICATION					
Product name:	FORTRESS				
Other means of identification:	Azoxystrobin 250 SC				
Recommended use:	Fungicide				
Restrictions on use:	No information available				
UN No:	3082				
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:	methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yl]oxy}phenyl}-3-methoxyacrylate (IUPAC)				
2) Classification of the substance / mixture:					
Classification of the product is based on the co-formulants listed in section 3.	N				
Label elements:	 Dangerous for the environment				
Hazards Identification:					
Health effects: eyes:	May cause mild irritation.				
Health effects: skin:	May cause slight irritation.				
Health effects: ingestion	May be harmful.				
Health effects: inhalation	May be harmful.				
3) Composition Details:					
COMPOSITION	Azoxystrobin 250 g/L				
COMPOSITION: Mixture					
Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Azoxystrobin	25.0%	131860-33-8	-	Aquatic acute 1: H400: Very toxic to aquatic life.	T, N R23 R50/53

				<p>Aquatic chronic 1: H410: Very toxic to aquatic life with long-lasting effects.</p> <p>Acute Tox. 3: H331: Toxic if inhaled.</p>	
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Full text of symbols, R-phrases and S-phrases: see section 15

**4) First Aid Measures:**

<p><b>Inhalation:</b></p> <p><b>Skin contact:</b></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>Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. <b>Seek medical assistance.</b></p> <p>Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Seek medical assistance if irritation occurs or persists.</p> <p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. <b>Seek medical assistance.</b></p> <p>Never give anything by mouth to an unconscious person. Do not induce vomiting. Plenty of water may be given to drink. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately</b> and show this container or material safety data sheet.</p> <p>None known</p> <p>No specific antidote known. Treat symptomatically. If gastric lavage is considered to be necessary, prevent aspiration of gastric material. Consider the administration of activated medicinal charcoal and a laxative.</p>
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**5) Fire-Fighting Measures:**

<p><b>Flash point:</b></p> <p><b>Extinguishing Media:</b></p> <p><b>Fire Fighting:</b></p>	<p>Not flammable.</p> <p>Fine water spray, foam, carbon dioxide, dry chemical powder. 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.</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. Do not scatter the material. Avoid pollution of waterways.</p>
<p><b>Protective clothing:</b></p>	<p>Full protective clothing and self-contained breathing apparatus</p>

**6) Accidental Release Measures:**

<p><b>Personal precautions:</b></p> <p><b>Occupational spill:</b></p>	<p>For personal protection see Section 8.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert</p>
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<b>Flammability (solid, gas)</b>	No data available
<b>Upper/ lower flammability or explosive limits:</b>	No data available
<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>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Hazardous decomposition product(s):</b>	When heated to decomposition, irritant or dangerous fumes may be emitted.
<b>Conditions to avoid:</b>	No data available
<b>Incompatible materials:</b>	No data available
<b>11) Toxicological Information:</b>	
<p>Oral : LD<sub>50</sub> &gt; 2 000 mg/kg, rat.                      Dermal : LD<sub>50</sub> &gt; 4 000 mg/kg, rabbit.                      Inhalation : LC<sub>50</sub> (4h) &gt;6.32 mg/L, rat.</p> <p>Skin irritation: Non irritant, rabbit.                      Eye irritation : Non irritant, rabbit.                      Sensitization : Did not cause sensitization on laboratory animals, guinea pigs.</p> <p>Mutagenicity: Azoxystrobin: Did not show mutagenic effects in animal experiments.</p> <p>Carcinogenicity: Azoxystrobin: Did not show carcinogenic effects in animal experiments.</p> <p>Reproductive toxicity: Azoxystrobin: Did not show reproductive toxicity effects in animal experiments.</p> <p>STOT – repeated exposure: Azoxystrobin: No adverse effect have been observed in chronic toxicity tests.</p>	
<b>12) Ecological Information (Based on technical material):</b>	
<p>Bees : LD<sub>50</sub> for honeybees (oral) &gt;25 µg/bee; (contact) &gt;200 µg/bee                      Birds : LD<sub>50</sub> Acute oral LD<sub>50</sub> for mallard ducks and bobwhite quail &gt;2000 mg/kg. Dietary LC<sub>50</sub> (5 d) for bobwhite quail and mallard ducks &gt;5200 mg/kg diet.                      Fish : LC<sub>50</sub> (96 h) for rainbow trout 0.47, bluegill sunfish 1.1, carp 1.6, sheepshead minnows 0.66 mg/l.                      For degradate R234886, LC<sub>50</sub> &gt;150 mg/l.                      Daphnia : EC<sub>50</sub> (48 h) 80 µg/l. EC<sub>50</sub> for degradates: R234886 &gt;180, R401553 &gt;50, R402173 &gt;50 mg/l.                      Algae : EC<sub>50</sub> (120 h) for <i>Selenastrum capricornutum</i> 0.12 mg/l.                      Worms LC<sub>50</sub> (14 d) for earthworms 283 mg/kg.</p> <p>Persistence: Rapidly degraded in soil. Azoxystrobin and its degradates have low to moderate mobility in soil and low potential for bioaccumulation; typical K<sub>oc</sub> c. 500.</p> <p>Bioaccumulation: Does not bioaccumulate</p> <p>Mobility in soil: Azoxystrobin: Low to very high mobility in soil.</p> <p>PBT and vPvB: Azoxystrobin: Not considered to be persistent, bioaccumulating nor toxic (PBT). Not considered to be very persistent nor very bioaccumulating (vPvB)</p>	
<b>13) Disposal Considerations:</b>	
<p><b>Waste Disposal :</b> In accordance with local and national regulations.                      Do not dispose of waste into the sewer. If circumstances such as wind direction permit, may be incinerated at a suitable incineration plant holding a permit delivered by the competent authorities. Otherwise, dispose of waste by crushing or puncturing and burying in a suitable landfill. 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 chemicals waste disposal facility.</p>	

**Container Disposal :**

Refer to the product label for instructions.

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if this container is damaged or leaking. Where possible, recycling is preferable over disposal or incineration. Empty containers should be transported to an approved waste handling site for recycling or disposal in accordance with local or national regulations.

**14) Transportation Information:**

UN NUMBER: 3082

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Labelling no: 9

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

Maritime Transport IMDG / IMO:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Labelling no: 9

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

MARINE POLLUTANT

Air Transport ICAO / IATA:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Labelling no: 9

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

Special precautions for user: Non

Transport in bulk according to Annex II 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.

For the proper and safe use of this product, please refer to the approval conditions indicated in the product label

**Symbol(s):** N – dangerous for the environment

**R-phrases(s):**

**R23:** Toxic by inhalation.

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

**S-phrases(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 vapour.

**S35:** This material and its container must be disposed of in a safe way.

**S36/37:** Wear suitable protective clothing and gloves.

**S46:** If swallowed, seek medical advice immediately and show this container or label.

**S57:** Use appropriate containment to avoid environmental contamination.

**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

with us you are  
growing goodness



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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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