

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)
P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397
Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: Segar

Additional information: Azoxystrobin 250 SC

Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral	H332: Harmful if inhaled
Inhalation	H316: Causes mild skin irritation
Hazardous to the Environment	H400: Very toxic to aquatic life H411: Toxic to aquatic life with long lasting effects

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: Harmful if inhaled. Causes mild skin irritation

Label elements



Hazard pictograms:

Signal Word: Warning

Hazard Statements: H332: Harmful if inhaled. H316: Causes mild skin irritation. H400: Very toxic to aquatic life
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Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P332 + P313 If skin irritation occurs: Get medical advice/attention. P391 Collect spillage. P501 - Dispose of contents/container according to local regulations.

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
			EC1272/2008
Azoxystrobin	131860-33-8	26.31	Acute Tox. 3 Inhalation Aquatic Acute 1 Aquatic Chronic 1
Organo-silicon	9016-00-6	0.50	
Noigen EA-100	9016-45-9	5	Acute Toxicity category 4 Oral Skin Irritation category 2 Eye Irritation category 2 Aquatic Chronic category 2
Propylene glycol	57-55-6	10	
Water	7132-18-5	58.19	

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aid: Pay attention to self-protection

In case of ingestion: Rinse mouth. Drink plenty of water. If symptoms persist, call a physician

In case of inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

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Most important symptoms and effects, both acute and delayed:

Inhalation: Harmful if inhaled

Ingestion: None known

Skin contact: Causes mild skin irritation

Eye contact: None known

Anticipated delayed effects:

May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically

Indication of any immediate medical attention and special treatment needed:

Immediate medical attention is required if exposure to the product. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: use extinguishing measures appropriate to local circumstances and the surrounding environment.

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Specific hazards arising from the mixture:

No specific hazard known

Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin. Ventilate area of spill or leak, especially in contained areas.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

Protective equipment:

Wear protective clothing. Avoid breathing dust. If necessary, wear a self-contained breathing apparatus. Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

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Environmental precautions:

Prevention entry into waterways, sewers, basement or confined areas. Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

Take up mechanically, playing in appropriate containers for disposal

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Handling: Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapour/spray

Protective measures: When using do not eat, drink or smoke. Was contaminated clothing before reuse

Conditions for safe storage, including incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place

Incompatible substances:

None known

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Exposure control:

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Use only outdoors in a well-ventilated area. Comply with occupational safety, environmental, fire, and other applicable regulations.

Respiratory protection: Avoid inhaling dust. Use effective dust mask

Hand protection: Protective (impermeable) gloves

Eye/face protection: Wear eye protection. Safety glasses

Skin and body protection: Long-sleeved shirt, long pants, shoes plus socks, protective (impermeable) gloves

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Environmental exposure controls: Environmental manager must be informed of all major spillages.

Other protection:

Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid dust. Wash accurately (preferably a shower) after work shift. Wash hands during breaks and at the end of the work with soap and water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Off-white
Odour	Organic Solvent
pH	7-8 solution (1%)
Melting point	No data available
Boiling point	No data available
Flash point	Not flammable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.076-1.079
Solubility	No data available
Partition Coefficient (Log Pow)	
Autoignition temperature	475
Decomposition temperature	No data available
Kinematic viscosity	110
Explosive properties	Not an explosive
Oxidizing properties	Not oxidizing

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical stability: Stable under normal condition

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Heat, flames and sparks

Incompatible materials: No information available

Hazardous decomposition products: None under normal use conditions

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

ACUTE TOXICITY:

Azoxystrobin	
Acute toxicity	
Acute Oral LD ₅₀ (mice, male and female rats)	>5000 mg/kg
Acute Dermal LD ₅₀ (rabbit):	>2000 mg/kg
Acute Inhalation LC ₅₀ (rat) (4 h, nose only)	
Male rats	0.96 mg/ℓ
Female rats	0.69 mg/ℓ
Skin irritation/ corrosion (rabbits)	Slight skin irritation
Eye damage / irritation (rabbits)	Slight eye irritation
Respiratory or skin sensitization	Not a skin sensitizer
Germ cell mutagenicity	
Carcinogenicity	
Reproductive toxicity	
Specific Target Organ Toxicity STOT single exposure	
Specific Target Organ Toxicity STOT repeated exposure	
Aspiration hazard	

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Azoxystrobin	
Acute toxicity	
Birds:	
LD ₅₀ for Bobwhite quail mallard duck	>2 000 mg/kg
Dietary LC ₅₀ (5 d) for mallard duck and bobwhite quail	>5200 mg/kg diet
Fish:	
LC ₅₀ (96 h) Rainbow trout	0.47 mg/ℓ
LC ₅₀ (96 h) bluegill sunfish	1.1 mg/ℓ
LC ₅₀ (96 h) Carp	1.6 mg/ℓ
LC ₅₀ (96 h) for sheepshead minnows	0.66 mg/ℓ
Daphnia	
EC ₅₀ (48 h) for	0.28 mg/ℓ
Algae	
EC ₅₀ (72 h) for <i>Pseudonitzschia subcapitata</i>	0.18 mg/ℓ
EC ₅₀ (72 h) diatom <i>Navicula pelliculosa</i>	0.028 mg/ℓ
Other aquatic spp.	
LC ₅₀ (96 h) for mysid shrimps (<i>Mysidopsis bahia</i>)	0.055 mg/ℓ
EC ₅₀ (48 h) for Pacific oysters	1.3 mg/ℓ
EC ₅₀ (14 d) for <i>Lemna gibba</i>	3.2 mg/ℓ
NOEC (25 d) for chironomid larvae	0.2 mg/ℓ
Bees:	
LD ₅₀ honeybees (oral)	>25 µg/bee
LD ₅₀ honeybees (contact)	>200 µg/bee
Worms	
LC ₅₀ (14 d) for earthworms	283 mg/kg
Other beneficial spp.	
LR ₅₀ for predatory mites <i>Typhlodromus pyri</i>	>1500 g/ha
LR ₅₀ for parasitoid wasps <i>Aphidius rhopalosiphii</i>	>1000 g/ha

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Biodegradability: No information available

Bio-accumulation: No information available

Mobility: No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number:	3082
UN proper shipping name	Environmentally hazardous substance Liquid N.O.S. (Azoxystrobin)
UN Classification transport hazard class(es):	9
Packing group (if applicable)	III
Marine pollutant (Y/N)	Yes, Considered a marine pollutant
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code:	Not available

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

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SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H332: Harmful if inhaled

H316: Causes mild skin irritation

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.