

MATERIAL SAFETY DATA SHEET – SureFire STELLAR



PCT International Pty Ltd

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STELLAR

FUNGICIDE

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Surefire Stellar fungicide
Product Code: none
Product Use: For the control of various diseases of avocados, grapes, mangoes, passionfruit, cucurbits, poppies, potatoes and tomatoes as per the Directions for Use
Poison Schedule: S5
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 1 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055

Emergency telephone No: 1800 630 877

Other Information: This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

MSDS Creation Date: 20th July 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid

Ingredients	CAS NO.	Concentration
Azoxystrobin	131860-33-8	250g/L
1,2-benzisothiazol-3(2H)-one	2634-33-5	<10%
Other ingredients determined not to be hazardous	-	to 100

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3. HAZARDS IDENTIFICATION

Hazard Classification: Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals

Risk Phrases: R36/38 Irritating to eyes and skin

Safety Phrases: –

Potential Health Effects

Eyes: Irritating to the eyes

Skin: May cause slight irritation

Ingestion: May No specific symptoms of poisoning are known for this product. If ingested, nausea, vomiting, diarrhoea and abdominal pain may occur.

Inhalation: Upper respiratory tract pain and irritation is likely to occur.

Primary Routes of

Entry: Eyes, Skin, Inhalation, Ingestion

4. FIRST AID MEASURES

Eyes: Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.

Skin: Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.

Ingestion: Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.

Inhalation: Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.

First Aid Facilities: If poisoning occurs, contact a doctor or Poisons Information Centre on **13 11 26** (Australia).

General Advice: Remove soiled or soaked clothing immediately.

Information for

doctor: There is no known specific antidote. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point: more than 97°C. (Pensky Martens closed cup)

Autoignition Temperature: Not applicable.

Upper Explosion Limits: Not applicable.

Lower Explosion Limits: Not applicable.

Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray, carbon dioxide

By-products in case of Fire: In the event of a fire the following can be released:

Carbon monoxide, smoke & other decomposition products.

Further Information: Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.

Special Protective

Equipment for Firefighters: As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

Advice on protection against fire and explosion:

Not flammable- no special measures required.

Storage information: Keep product in the original container, tightly closed, in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS No	Basis	Type	Value	Note
Azoxystrobin	131860-33-8	NOHSC	TWA	2mg/L	
Glycol	57-55-6	NOHSC	TWA	0.47mg/L	

General protective

Measures: Avoid contact with eyes and skin
Do not inhale mists.

Hygiene Measures: No smoking, eating or drinking allowed when using this product.
Wash hands before breaks and at end of work shift.
Protective ointment is recommended.

Respiratory

Protection: In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

Hand Protection: Elbow length PVC gloves should be worn when using this product.

Eye Protection: Safety goggles and/or face shield is recommended when using this product.

Protective clothing: Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.

Engineering Controls: Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white / beige liquid

Odour: Slight characteristic odour.

Solubility in Water: Miscible with water.

Specific Gravity

(H₂O=1): approx. 1.09 @ 20°C

pH Value: 7.0 – 8.0 @ 25°C

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Vapour Pressure: not determined
Melting Temperature: not applicable
Boiling temperature: not measured
Viscosity, dynamic: not measured

10. STABILITY AND REACTIVITY

Conditions to avoid: None with proper storage and handling, other than extreme heat.
Thermal Decomposition: Not measured, although if involved in a fire, the formation of carbon monoxide & smoke is likely.
Hazardous reactions: No hazardous reactions with proper storage and handling
Hazardous Polymerization: Unlikely to occur.
Stability: Stable under normal conditions of storage and use.
Hazardous decomposition products: None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: LD₅₀ (rat) >2000 mg/kg approx.
Acute Toxicity - Inhalation: LC₅₀ (rat) >6.3mg/L exposure time, 4h method
Acute Toxicity - Dermal: LD₅₀ (rat) >4000mg/kg
Eye Irritation: (Species - rabbit) moderate irritant
Skin Irritation: (Species - rabbit) slight irritant
Skin Sensitisation: (Species - guinea pig) non-sensitising
Note: harmful by inhalation and in contact with skin. No evidence of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects has been found with Azoxystrobin technical.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:
Acute Toxicity – Fish: LC₅₀ for rainbow trout is 1.76 mg/L.. 96h
LC₅₀ for carp is 4.2 mg/L , 96 h
Acute Toxicity - Daphniae: EC₅₀ for daphnia magna is 0.85 mg/L.. 48h
Acute Toxicity – Algae: EC₅₀ for green algae is >2.2 mg/L.72h
Acute Toxicity – Earthworms: LC₅₀ for earthworm is >1000 mg/Kg
Further ecological information:
Ecological notes: This product is considered to be a water pollutant. It is classified as immobile in soil and is not expected to leach. Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100% product.

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13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Product Disposal: In accordance with local authority regulations, take to special waste incineration plant.

Container Disposal: Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

If transporting by sea or air, the following Dangerous Goods classification applies:

UN No. : 3082

Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S. (contains Azoxystrobin)

Dangerous Goods Class : 9

Subsidiary Risk : None Allocated

Pack Group : III

Hazchem Code : 2X



EPG: n/a

Storage and Transport: Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

APVMA Approval No: 66821/xx/54473

Poisons Schedule: S5

Packaging &

Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category

AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

This MSDS contains only safety-related information. For other data, see product literature.

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