



## SAFETY DATA SHEET STELLAR<sup>®</sup> FUNGICIDE

### Section 1: Identification of the Substance and Supplier

**Product name:** STELLAR FUNGICIDE  
**Chemical name of active Ingredient(s):** Epoxiconazole: C17H13ClFN3O  
**Supplier:** ADAMA New Zealand Limited  
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O.Box 1799, Nelson New Zealand.  
**Telephone** +64 3 543 8275 Fax: +64 3 543 8274  
**Emergency Telephone:** 0800 POISON (0800 764 766)

### Section 2: Hazards Identification

**Hazard Classifications:** 6.8B, 6.9B, 9.1B

**Most important hazards:** **TOXICITY**  
May cause reproductive/developmental damage.  
May cause organ damage from repeated oral exposure at high doses.  
**ECOTOXICITY**  
Toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

### Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation			
<b>Information on hazardous ingredients *</b>				
Common name	CAS No.	%	EC Number	R-Phrases
Epoxiconazole	133855-98-8	125	406-850-2	R40, R62, R63, R51-53
Alkoxylated fatty alcohol	68002-96-0	>10	-----	R23, R50
Solvesso 200	64742-94-5	>10	265-198-5	R65

- Occupational Exposure Limit(s), if available, are listed in section 8

### Section 4: First-Aid Measures

**First-aid measures:** Remove victim from area of exposure. Wash off remaining material with plenty of water.

**Inhalation:** Remove victim to fresh air. Keep victim warm and at rest. If not breathing give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.

**Ingestion:** If swallowed do NOT induce vomiting. Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.

**Skin contact:** If skin contact occurs, remove contaminated clothing and flush skin and hair with water.

**Eye contact:** If splashed in eyes, wash out immediately with water for 10-15 minutes. Immediately consult an eye specialist.

### Section 5: Fire-Fighting Measures

**Extinguishing media**  
**Suitable:** Water spray, water fog, foam.  
**Hazardous thermal (de)composition products:** Thermal decomposition may generate: carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen chloride, HF

**Protection of fire-fighters:** When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. Fight fire from protected area. Dike fire control water for later disposal.



## SAFETY DATA SHEET STELLAR<sup>®</sup> FUNGICIDE

### Section 6: Accidental Release Measures

- Personal precautions:** As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC.
- Environmental precautions:** Dispose of this material and its container at hazardous or special waste collection point, in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.
- Methods for cleaning up:** In the event of a minor spillage: Absorb in sand or other inert material. Use appropriate container to avoid environmental contamination.  
In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

### Section 7: Handling and Storage

- Handling:** Keep out of reach of children. Do not eat, drink or smoke while using. When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection. Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.
- Storage:** Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications storage of Stellar Fungicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

### Section 8: Exposure Controls/Personal Protection

- Industrial Hygiene:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling. Wash clothing before re-using.
- Hygiene measures:** When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- TLV** **Epoxiconazole:** Not established

#### Personal protective equipment:

- Respiratory system:** Respiratory protection is not required if good ventilation is maintained.
- Skin and body:** Wear suitable protective clothing. Chemical resistant boots.
- Hands:** Chemical resistant gloves.
- Eyes:** Safety goggles or face shield.

### Section 9: Physical and Chemical Properties

- Physical state:** Liquid
- Colour:** White
- Odour:** characteristic
- pH value:** 4-7 at a temperature of 20 °C
- Molecular weight:** Epoxiconazole: 329.8
- Melting point:** Epoxiconazole: 136.1-137.6 °C
- Density:** 1.03 -1.05
- Viscosity:** High viscous, surface tension = 31.2 mN/m
- Solubility in water:** dispersible
- Flash Point:** >100



## SAFETY DATA SHEET STELLAR<sup>®</sup> FUNGICIDE

Explosion properties : Not Explosive

### Section 10: Stability and Reactivity

**Stability:** Stable under normal conditions  
**Hazardous decomposition products:** Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride, HF.  
**Hazardous reactions:** Avoid contact with: strong bases  
**Hazardous polymerisation:** Will not occur  
**Conditions to avoid:** Protect from (sun) light, open flame and sources of heat. Decomposes upon heating.

### Section 11: Toxicological Information

**Preparation** Epoxiconazole  
**Toxicity information:** No toxicological information is known on the product. For a similar formulation containing 125g/l Epoxiconazole.  
**Rat oral:** LD<sub>50</sub> >2,000 mg/kg  
**Rat dermal:** LD<sub>50</sub> >2,000 mg/kg  
**Rat inhalation:** LC<sub>50</sub> > 5.00 mg/L  
**Dermal irritation (rabbit):** Not irritant  
**Eye irritation (rabbit):** Not irritant  
**Sensitization:** Guinea pig maximization test: Non sensitiser  
**Carcinogenicity:** Cat 3: limited evidence of a carcinogenic effect.  
**Reproduction toxicity:** Cat 3: Possible risk of impaired fertility  
Cat 3: Possible risk of harm to the unborn child

### Section 12: Ecological Information

**Ecological effects information:** No ecological information is known on the product. For a similar formulation containing 125g/l Epoxiconazole.  
96 H-LC<sub>50</sub> Rainbow trout 7.8 mg/l  
96 H-LC<sub>50</sub> Carp 11.4 mg/l  
48 H-LC<sub>50</sub> Daphnia magna 17 mg/l  
72 H-ErC<sub>50</sub> Algae 7 mg/l  
72 H-EbC<sub>50</sub> Algae 0.28 mg/l

### Section 13: Disposal Considerations

**Methods of disposal:** Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

### Section 14: Transport Information

**UN Number** 3082  
**Proper shipping name** Environmentally hazardous substance, Liquid, N.O.S., (EPOXICONAZOLE)  
**DG Class** 9  
**Packing Group** III  
**Hazchem Code** 2X  
**Marine Pollutant** NO  
**IER Guide page** 47  
**National transport regulations:** Do not carry this product on a passenger service vehicle.

**Segregation:** Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation.



## SAFETY DATA SHEET STELLAR<sup>®</sup> FUNGICIDE

Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

### Section 15: Regulatory Information

#### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997, No. P7854  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR000723  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for approval controls

**HSNO Classifications:** 6.8B, 6.9B, 9.1B



**ECOTOXIC**

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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#### **HISTORY**

**Date of printing:** 03/06/2014  
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