

Product Name: STELLAR FUNGICIDE

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This revision issued: July, 2019



Section 1. Identification of the material and the supplier

Product: STELLAR FUNGICIDE

Chemical Name of Active Ing: Epoxiconazole: C17H13CIFN3O

Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road

Tahunanui, Nelson +64 3 543 8275

Telephone: +64 3 543 8275 Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 2 July 2019

Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Classification)*Notice 2017

EPA Approval No: HSR000723

Pictograms





Chronic Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

Prevention Code	Prevention Statement	
P103	Read label before use.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe fumes, vapours or spray.	
P273	Avoid release to the environment.	
P281	Use personal protective equipment as required.	

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Response Code	Response Statement	
P314	Get medical advice/attention if you feel unwell.	
P391	Collect spillage.	
P308 + P313	IF exposed or concerned: Get medical advice/ attention.	

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement		
P501	Wherever possible completely use material by using according to label		
	instructions. Dispose of unwanted product and wastes from spillages as		
	hazardous substances in accordance with local and national regulations		
	using a licensed waste disposal company. Triple rinse containers and add		
	rinsate to spray tank before puncturing and offering for recycling or		
	landfill. Do not allow product to enter waterways. Do not burn product or		
	container.		

Section 3. Composition / Information on Ingredients

Ingredients	Wt %	CAS NUMBER.
Epoxiconazole	125	133855-98-8
Alkoxylated fatty alcohol	>10	68002-96-0
Solvesso 200	>10	64742-94-5

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin Remove contaminated clothing. Gently wash skin with water and soap for

15 minutes or until chemical is removed. If skin irritation occurs: Get

medical advice/ attention.

If swallowed 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.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:Not applicableInhalation:Not applicableSkin:Not applicableEye:Not applicable

Chronic: Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable or combustible	
Hazards from	Thermal decomposition may generate: carbon monoxide, carbon	
products	dioxide, nitrogen oxide, hydrogen chloride, HF	

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Suitable Extinguishing media	Water spray, water fog, foam.
Precautions for firefighters and special protective clothing	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.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Wear suitable protective clothing, gloves and eye/face protection. Evacuate all unnecessary personnel.

Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

Methods and material for containment and 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

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, vapours or spray.
- 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.
- Avoid release to the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- · Keep out of reach of children.
- Store locked up.
- Store in original, unopened container in cool, dry place, well ventilated 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

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m3 ppm mg/m3

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue

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change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ventilation required.

Personal Protection Equipment



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

Section 9 Physical and Chemical Properties

Appearance	White liquid
Odour	Characteristic
Odour Threshold	Not applicable
pH	4-7 at a temperature of 20 °C
Boiling Point	Not applicable
Melting Point	Epoxiconazole:136.1-137.6oC
Flash Point	>100°C
Flammability	Non Flammable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure	Not applicable
Density	1.03 -1.05
Solubilities in water	dispersible
Octanol/water partition	Not applicable
coefficient	
Auto-ignition	Not applicable
Temperature	
Viscosity	High viscous, surface tension = 31.2 mN/m
Molecular weight:	Epoxiconazole: 329.8
Decomposition point:	Not applicable
Surface tension mN/m:	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.		
Conditions to Avoid	Protect from (sun) light, open flame and sources of heat.		
	Decomposes upon heating.		
Incompatible Materials			
Hazardous Decomposition	Thermal decomposition generates: carbon dioxide, carbon		
Products	monoxide, nitrogen oxides, hydrogen chloride, HF.		

Section 11	Toxicological Information	

Acute Effects:

Swallowed	Not applicable.	
Dermal	Not applicable.	
Inhalation	Not applicable.	

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Skin	Not applicable.
Eye	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Suspected of damaging fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Preparation Epoxiconazole

Toxicity information: No toxicological information is known on the product. For a

similar formulation containing 125q/l Epoxiconazole.

Rat oral: LD50 > 2,000 mg/kgRat dermal: LD50 > 2,000 mg/kgRat inhalation: LC50 > 5.00 mg/L

Dermal irritation (rabbit): Not irritant Eye irritation (rabbit): Not irritant

Guinea pig maximization test: Non sensitiser Sensitization: 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. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

For a similar formulation containing 125g/I Epoxiconazole.

H-LC50 Rainbow trout 7.8 mg/l 96 H-LC50 Carp 11.4 mg/l 48 H-LC50 Daphnia magna 17 mg/l 72 H-ErC50 Algae 7 mg/l72 H-EbC50 Algae 0.28 mg/l

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: 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.



Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

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Section 14

Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3082 Class-primary Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S, (EPOXICONAZOLE)

Air Transport

UN No: 3082 Class-primary Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S, (EPOXICONAZOLE)

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper Shipping Name:

N.O.S, (EPOXICONAZOLE)

Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 **Regulatory Information**

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000723 HSNO Classification: 6.8B, 6.9B, 9.1B

Refer to EPA website www.epa.govt.nz for controls document - HSR000723

HSW (HS) Regulations 2017	Trigger Quantity/Regulation	
HSW(Hazardous substance) Regulations Part 4	HSW Reg 4.5 - 4.6	
Certified Handlers and supervision and training	Information, instruction, training and	
of workers	supervision.	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	1000L (9.1B)	
Emergency Response Plan (Schedule 5)	1000L (9.1B)	
Secondary Containment (Schedule 5)	1000L (9.1B)	
Tracking (Schedule 26)	Not required	
HSNO Additional Controls (Restrictions of use)		
77A	The substance must not be applied onto or	
	into water.	
Hazardous Property Controls Notice 2017		
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be	

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	appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
ACVM Act and Regulations	
ACVM Approval No	P7854
See <u>www.foodsafety.govt.nz</u> for registration controls	

Section 16	Other Information
Glossary	
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible
	authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition. 2.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- Transport of Dangerous goods on land NZS 5433:2012 4.
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the ADAMA, if further information is required.

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