



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Stellar**
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
Telephone: +64 3 543 8275
Fax Number: +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 30 April 2021

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Hazard Classification) Notice 2020

EPA Approval No: HSR101056

Pictograms



Chronic



Ecotoxic

Signal Word: **Warning**

GHS Classification	Hazard Code	Hazard Statement
Carcinogenicity, Cat. 2	H351	Suspected of causing cancer.
Reproductive toxicity, Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity, repeated exposure, Cat. 2	H373	May cause damage to organs (oral) through prolonged or repeated exposure.
Hazardous to aquatic environment, chronic, Cat. 3	H412	Harmful to aquatic life with long lasting effects.

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.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
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	%	CAS NUMBER.
Epoxiconazole	125 g/l	135319-73-2
Other ingredients	Up to 1L	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.

If on Skin Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If skin irritation occurs: get medical advice/attention.

If Swallowed Wash out mouth with water and drink several glasses of water. Do not induce vomiting unless told to by a poison control centre or doctor. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

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 applicable.

Inhalation: Not applicable.

Skin: Not applicable.

Eye: Not applicable.

Chronic: Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs (oral) through prolonged or repeated exposure.

Advice to Doctor: Treat symptomatically. If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	None known.
Suitable Extinguishing media	Water spray, foam, dry extinguishing media, carbon dioxide
Precautions for firefighters and special protective clothing	When fighting fires involving significant quantities of this product, wear full protective clothing, goggles and respirator. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Avoid contact with the skin, eyes and clothing. 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

Pick up with suitable absorbent material (e.g. sand, sawdust, general purpose binder). For larger amount, dike spillage/pump off product. Collect in suitable containers, labelled and sealed. Dispose of in an authorized waste collecting point.

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.
- Avoid release to the environment.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep away from food, drink and animal feeding stuffs.
- Keep out of reach of children.
- Keep in original container, tightly closed, in a safe place.
- Protect from frost.
- Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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 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 2019 11TH EDITION.

Engineering Controls

No special ventilation requirements are normally necessary for this product.

Personal Protection Equipment



Eyes	Safety glasses with side-shields (frame goggles) (f.e. EN 166)
Hands and Skin	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm). Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).
Respiratory	Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)
General	Females of childbearing age should not come into contact with the product. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place.

Section 9 Physical and Chemical Properties

Appearance	White or clear beige liquid
Odour	Slight aromatic
Odour Threshold	Not applicable
pH	6.0 – 9.0
Boiling Point	No data
Melting Point	Not applicable
Flash Point	>100°C
Flammability	Not flammable
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	No data
Density	1.05
Solubilities	Dispersible
Coeff Oil/water distribution:	Not applicable
Auto-ignition Temperature	Not applicable
Kinematic viscosity mm²/s 40 °C	Not applicable
Particle Characteristics	Not applicable
Volatiles	No data.

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
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Reactivity	No hazardous reactions if stored and handled as prescribed/indicated.
Conditions to Avoid	No substances known that should be avoided.
Incompatible Materials	No substances known that should be avoided.
Hazardous Decomposition Products	No decomposition if stored and handled as prescribed/indicated.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Acute Oral LD50 (rat): >2200 mg/kg
Dermal	Not applicable. Acute Dermal LD50 (rat): >4000 mg/kg
Inhalation	Not applicable. Inhalation LC50 (rat): >3.26mg/L (4hr for the formulated product)
Skin	Not applicable
Eye	Not applicable

Chronic Effects:

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

Section 12. Ecotoxicological Information

Product is Harmful 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
Precautions	Do not allow to enter waterways.

Acute Toxicity:

Fish The following is data for a similar product.

Toxic to fish. LC50 (96hr) for rainbow trout is 0.5 mg/l.

Daphnia: LC50 (48hr) for daphnia is 1.8 mg/l for the formulated product.

Acute Toxicity -Other Organisms:

The following data is for the active ingredient, epoxiconazole.

Birds: Not toxic to birds. LD50 for quail is >2000 mg/kg

Bees: Not toxic to bees. LD50 >100 µg/bee.

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

Precautions and methods to avoid:

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

Section 14 Transport Information

Product Name: Stellar
Date of SDS: 30 April 2021

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

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

EPA Approval Code: HSR101056

Refer to EPA website www.epa.govt.nz for controls document - HSR101056

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000L (Aquatic Chronic, Cat. 3)
Emergency Response Plan (Schedule 5)	1000L (Aquatic Chronic, Cat. 3)
Secondary Containment (Schedule 5)	1000L (Aquatic Chronic, Cat. 3)
Tracking (Schedule 26)	Not required
HSW(Hazardous substance) Regulations Part 4 Certified Handlers and supervision and training of workers	HSW Reg 4.5 – 4.6 Information, instruction, training and supervision.
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 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 See www.foodsafety.govt.nz for registration controls	P9829

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
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2019 11th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the ADAMA, if further information is required.

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