

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Rivera** Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 +64 9 412 9807 Fax: www.adria.nz Website:

0800 734 607 (24hr)3 **Emergency No:**

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 19 July 2018

Section 2. **Hazards Identification**

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

EPA Approval No: HSR101053

Pictograms







Toxic/Irritant

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
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
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Chronic 1
9.3C	H433	Harmful to terrestrial vertebrates.	-

Product Name: Rivera Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 19 July 2018

Tel: 64 9 475 5240 www.techcomp.co.nz

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
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, mist or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Cyproconazole	16.00	94361-06-5
Trifloxystrobin	37.50	141517-21-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Check for and remove any contact lenses. In case of eye contact,

immediately rinse with clean water for 10-15 minutes. Obtain medical

attention if pain, blinking or redness persist.

If on Skin Wash all exposed skin area with mild soap and water, if available use

polyethylene glycol 400, followed by warm water rinse. Seek medical

attention if ill effect or irritation develops.

If Swallowed If swallowed, rinse mouth with water (only if the person is conscious). DO

NOT INDUCE VOMITING. For advice, contact the National Poisons Centre

on 0800 POISON (0800 764766) or a doctor immediately.

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: Harmful if swallowed. **Inhalation:** Not applicable.

Skin: May cause an allergic skin reaction.

Eye: 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	This product is not flammable.	
Hazards from	In the event of a fire, the following may be released: Hydrogen	
combustion	chloride, Hydrogen cyanide, Hydrogen fluoride, Carbon monoxide,	
products	Nitrogen oxides.	
Suitable	Small fire: Dry chemical, foam, sand.	
Extinguishing	Large fire: Foam. Water spray. Water fog, foam, sand.	
media	Do not use a heavy water stream.	
	Surrounding fires: Use water spray or fog for cooling exposed	
	containers.	
Recommended	Do not enter fire area without proper protective equipment, including	
protective clothing	respiratory protection.	
Precautions for	Exercise caution when fighting any chemical fire. Avoid (reject) fire-	
firefighters	fighting water to enter environment. Do not breathe fumes.	
HAZCHEM CODE	3Z	

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Do not eat, drink or smoke while using this product. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Avoid contact with spilled product or contaminated surfaces.

Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Spill and Disposal procedures:

Wear protective clothing as per Section 8. Clean up any spills as soon as possible, using an absorbent material to collect it such as sand, silica gel, acid binder, universal binder, sawdust etc. Dispose of waste safely, according to Local Council regulations.

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, mist or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Keep away from temperature extremes.
- Do not ingest.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

• Suspected teratogen. Females of child-bearing age should avoid contact: Obtain special instructions before use.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up in tightly closed, properly ventilated, original containers away from heat, sparks, open flame.
- Store in a location accessible only to authorised personnel.

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 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 / Industrial Hygiene

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protection Equipment









Eyes	Chemical goggles or face shield with safety glasses.
Hands	Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber
	gloves with a minimum thickness of 0.4 mm.
Skin	If skin contact or contamination of clothing is likely, protective clothing should be worn
Respiratory	Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work. Suspected teratogen. Females of child-bearing age should avoid contact: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Section 9 Physical and Chemical Properties

Appearance	Suspension Concentrate (Liquid)
Colour	White to beige liquid
Odour	Characteristic
Odour Threshold	Not available
рH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available

Flash Point	> 105 °C
Flammability	Not available
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.14 g/L
Water Solubility	Disperses in water
Partition Coefficient:	Not available
Ignition Temperature	355°C
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	No hazardous reactions when stored and handled according to
reactions	prescribed instructions
Conditions to Avoid	Strong acids. Strong oxidizers.
Incompatible Materials	Overheating, extremes of temperature and direct sunlight.
Hazardous Decomposition	No decomposition products expected under normal conditions
Products	of use. Thermal decomposition generates: Hydrogen chloride,
	Hydrogen cyanide, Hydrogen fluoride, Carbon monoxide,
	Nitrogen oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed.	
Dermal	Not applicable. LD50 (rat) > 4,000 mg/kg.	
Inhalation	LC50 (rat) > 1.962 mg/L. Exposure time: 4h. Determined in the form	
	of a respirable aerosol. Highest attainable concentration.	
Eye	Not applicable.	
Skin	May cause an allergic skin reaction.	

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.	

Section 12. Ecotoxicological Information

Ecological effects information	9.1A = Very toxic to aquatic organisms, may cause long- term adverse effects in the aquatic environment. 9.3C = Harmful to terrestrial vertebrates.
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available

Other adverse effects	No data available
Acute fish toxicity: LC50 (Oncorhynchus mykiss (rainbow trout)) 0.0523	
_	mg/L. Exposure time: 96 h
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

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

Precautions or methods to avoid: Avoid release to the environment.

Section 14 **Transport Information**

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



Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID	
	N.O.S (Trifloxystrobin, Cyproconazole)	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L/kg, it can be	
Limited Quantities	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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR101053

HSNO Classification: 6.1D(oral), 6.5B, 6.8B, 6.9B, 9.1A, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Signage Trigger Quantities (Schedule 3)	100L (9.1A)		
Emergency Response Plan (Schedule 5)	100L (9.1A)		
Secondary Containment (Schedule 5)	100L (9.1A)		
Tracking (Schedule 26)	Not required		
For all further controls	Refer to EPA website (www.epa.govt.nz) for		
	controls document - HSR101053		
HSNO Additional Controls (Restrictions of use)			

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A maximum application rate is set for this substance	The person in charge of the application of this substance, and any person applying the substance, must ensure that the application is carried out in accordance with the following restrictions:	
	the substance must not be applied at rates exceeding 400 mL of formulated product/ha per application (equivalent to 150 g trifloxystrobin/ha and 64 g cyproconazole/ha); and the substance must not be applied to the same area more than 2 times in any 365-day period; and an interval of at least 21 full days must be observed before the substance is reapplied to the same area.	
77A	This 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 4 Subpart A	Site and storage controls for class 9 substances	
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides	
ACVM Act and Regulations		
ACVM Approval No	P9390. See www.foodsafety.govt.nz for registration conditions.	

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

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 2017 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers 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 Adria, if further information is required.

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