

## SAFETY DATA SHEET

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

### Section 1. Identification of the material and the supplier

Product: **Vivendi 300**  
 Product Use: Herbicide  
 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  
 Fax: +64 9 412 9807  
 Website: www.adria.nz

**Emergency No:** **0800 734 607 (24hr)**  
**0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 9 November 2018

### Section 2. Hazards Identification

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

**EPA Approval No: HSR000760**

#### Pictograms



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2A	H421	Very toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P103	Read label before use.
P273	Avoid release to the environment.

<b>Response code</b>	<b>Response Statement</b>
P391	Collect spillage.

<b>Storage Code</b>	<b>Storage Statement</b>
None allocated	

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13.

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Clopyralid	300g/L	1702-17-6
Non-hazardous ingredients	To bal	

### 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	Wash skin thoroughly with water and soap. If irritation or rash develops get medical attention/advice.
If Swallowed	If swallowed do NOT induce vomiting. Rinse mouth. 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:

<b>Ingestion:</b>	Not applicable.
<b>Inhalation:</b>	Not applicable.
<b>Skin:</b>	Not applicable.
<b>Eye:</b>	Not applicable.
<b>Chronic:</b>	Not applicable.

**Treatment:** No specific antidote. Supportive care. Treat symptomatically.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	This product is not flammable.
<b>Hazards from products</b>	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
<b>Suitable Extinguishing media</b>	Suitable: Dry chemical, carbon dioxide, water fog or spray, standard foam. Unsuitable: High pressure water jet media.
<b>Recommended protective clothing &amp; Precautions for firefighters</b>	Fire-fighters should wear approved self-contained breathing apparatus and full protective clothing. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.
<b>HAZCHEM CODE</b>	<b>3Z</b>

## Section 6. Accidental Release Measures

### Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

### Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Spill and Disposal procedures:

Contain and collect spillage with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Avoid release into the environment.
- Do not eat, drink or smoke when handling.
- Wash hands before eating, drinking or smoking and after work.
- Wear protective clothing as detailed in Section 8.

### Precautions for Storage:

- Store in a cool, well-ventilated storeroom, away from children and unauthorised personnel, and food and animal feed.
- Protect from excessive heat and cold.
- Store away from incompatible materials listed in Section 10.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

No ingredient has 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 dilution ventilation.

### Personal Protection Equipment

<b>Eyes</b>	Wear splash-proof or dust-resistant safety goggles.
<b>Skin</b>	Wear clean, long-sleeved, body-covering clothing. Use gloves, impervious to this material, when prolonged or frequently repeated contact could occur. For emergency conditions: use protective clothing impervious to this material.
<b>Respiratory</b>	For most conditions, no respiratory protection is necessary. However, if respiratory irritation is experienced, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
<b>General</b>	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Brown
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	5.2 (6.0 at 1% dilution)
<b>Boiling Point</b>	± 100 °C
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Density</b>	1.14
<b>Water Solubility</b>	Miscible.
<b>Octanol/water partition coefficient:</b>	Not available
<b>Auto Ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Surface tension</b>	33-46 mN/m

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to Avoid</b>	Avoid temperature extremes.
<b>Incompatible Materials</b>	Strong basic, acidic or oxidising materials.
<b>Hazardous Decomposition Products</b>	None under normal conditions of storage and use.

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable.: Acute LD50 oral = >2 000 mg/kg Clopyralid: LD50 (rat - male) = 3738mg/kg LD50 (rat - female) = 2675mg/kg
<b>Dermal</b>	Not applicable. Acute LD50 dermal (rats) = >4000 mg/kg Clopyralid: LD50 (rabbit) = 2675mg/kg
<b>Inhalation</b>	Not applicable. Clopyralid: LC50 (Rat) = >0.38 mg/l(4hrs)
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	9.1B = Toxic to aquatic life with long lasting effects. 9.2A = Very toxic to the soil environment. 9.3C = Harmful to terrestrial vertebrates.
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available
<b>Clopyralid:</b> - <b>Birds LD50 oral, mallard duck:</b> <b>LD50 oral, bobwhite quail:</b> <b>LC50 (5d) mallard duck:</b> <b>LC50 (5d) bobwhite quail:</b> - <b>Fish LC50 (96h) rainbow trout:</b> <b>LC50 (96h) bluegill sunfish:</b> - <b>Bees Non-toxic to bees LD50 (48h) oral and contact:</b> - <b>Worms LC50 (14d):</b> - <b>Others EC50 (48h) Daphnia:</b> <b>EC50 (96h) algae:</b> <b>EC50 (96h) algae:</b>  <b>EC50 (14d) Lemna Gibba:</b>	1465 mg/kg > 2000 mg/kg > 4640 mg/kg > 4640 mg/kg 103.5 mg/l 125.4 mg/l > 11 µg/bee > 1000 mg/kg soil 225 mg/l 6.9 mg/l (cell count) 7.3 mg/l (cell volume) (Selenastrum capricornutum) 89 mg/l
<b>Precautions:</b>	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.

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



### Road, Rail, Sea and Air Transport

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

EPA Approval Code: HSR000670

HSNO Classification: 9.1B, 9.2A, 9.3C

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	100L (9.2A)
Emergency Response Plan (Schedule 5)	1000L (9.1B)
Secondary Containment (Schedule 5)	1000L (9.1B)
Tracking (Schedule 26)	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	<b>Refer to EPA <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls document - HSR000670</b>
77A	The substance must not be applied onto or into water.
<b>Hazardous Property Controls Notice 2017</b>	
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 2	Certain substances restricted to workplace only.
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.
HPC Notice Part 4 Subpart C	Qualifications required for applications of class 9 pesticides.
<b>ACVM Act and Regulations</b>	
ACVM Approval No See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration controls	P7197

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

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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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