

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
 Website: www.adria.nz

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

Date of SDS Preparation: 26 April 2023 v2

Section 2. Hazards Identification

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

EPA Approval No: HSR000760

Pictograms



Signal Word: **Warning**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|-------------|--|
| Hazardous to the aquatic environment chronic Cat. 2 | H411 | Toxic to aquatic life with long lasting effects. |
| Hazardous to soil organisms | H421 | Hazardous to soil organisms |
| Hazardous to terrestrial vertebrates | H433 | Hazardous to terrestrial vertebrates |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P103 | Read carefully and follow all instructions. |
| P273 | Avoid release to the environment. |

| Response code | Response Statement |
|---------------|--------------------|
| P391 | Collect spillage. |

| Storage Code | Storage Statement |
|----------------|-------------------|
| None allocated | |

| Disposal Code | Disposal Statement |
|---------------|----------------------|
| 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:

| | |
|--------------------|-----------------|
| Ingestion: | Not applicable. |
| Inhalation: | Not applicable. |
| Skin: | Not applicable. |
| Eye: | Not applicable. |
| Chronic: | Not applicable. |

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

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | This product is not flammable. |
| Hazards from products | 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. |
| Suitable Extinguishing media | Suitable: Dry chemical, carbon dioxide, water fog or spray, standard foam. Unsuitable: High pressure water jet media. |
| Recommended protective clothing & Precautions for firefighters | 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. |
| HAZCHEM CODE | 3Z |

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 carefully and follow all instructions.
- 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 ³ | ppm | mg/m ³ |

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 APRIL 2022 13TH EDITION.

Engineering Controls / Industrial Hygiene

Provide local exhaust or general dilution ventilation.

Personal Protection Equipment:



| | |
|--------------------|--|
| Eyes | Wear splash-proof or dust-resistant safety goggles. |
| Skin | 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. |
| Respiratory | 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. |
| 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. |

Section 9 Physical and Chemical Properties

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

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information

Acute Effects:

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

Chronic Effects:

| | |
|-------------------------------|-----------------|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Section 12. Ecotoxicological Information

| | |
|---|--|
| Ecological effects information | Toxic to aquatic life with long lasting effects. Hazardous to soil organisms. Hazardous 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 |
| Clopyralid: - Birds LD50 oral, mallard duck: LD50 oral, bobwhite quail: LC50 (5d) mallard duck: LC50 (5d) bobwhite quail: - Fish LC50 (96h) rainbow trout: LC50 (96h) bluegill sunfish: - Bees Non-toxic to bees LD50 (48h) oral and contact: - Worms LC50 (14d): - Others EC50 (48h) Daphnia: EC50 (96h) algae: EC50 (96h) algae: EC50 (14d) Lemna Gibba: | 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 |
| 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.

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



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. (Clopyralid), |
| Marine Pollutant | Yes |
| Special Provisions-Limited Quantities | 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 2020

EPA Approval Code: HSR000760

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|---|
| Certified Handlers | Not required |
| Location Certificate | Not required |
| Signage Trigger Quantities (Schedule 3) | 1000L |
| Emergency Response Plan (Schedule 5) | 1000L |
| Secondary Containment (Schedule 5) | 1000L |
| Tracking (Schedule 26) | Not required |
| HSNO Additional Controls (Restrictions of use) | Refer to EPA www.epa.govt.nz for controls document - HSR000760 |
| 77A - Information - additional information requirements | Ecotoxic herbicide. Do not use for treating turf that will be mown and the clippings used for making compost; or made available for collection for, or deposited at, a municipal green waste recycling depot. |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 2 - Certain substances restricted to workplaces only | A person may supply this substance only to a workplace under the management and control of a PCBU, and only if the person has received written notification that there is someone at the workplace who has a relevant qualification as listed in Schedule 10 of the Hazardous Property Controls Notice. |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz 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

| | |
|------|---|
| 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 April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Issue Date: 26 April 2023

Review Date:

26 April 2028