

# Material Safety Data Sheet


## Vivendi<sup>®</sup> 300




Date of issue: 30<sup>th</sup> May, 2009

<b>1) Identification of Substance:</b>		
Product name:	Vivendi 300	
Active Ingredient(s):	Clopyralid 300g/l.	
ACVM Approval:	P7197	
ERMA Approval:	HRE05001	
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 <a href="http://www.adriacp.co.nz">www.adriacp.co.nz</a>	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
<b>2) Hazards Identification:</b>		
HSNO Classifications:	9.1B, 9.2A, 9.3C	
<b>3) Composition Details:</b>		
Chemical identity:	Clopyralid	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Clopyralid	1702-17-6	300g/l
<b>4) First Aid Measures:</b>		
General Information:		
Skin contact:	Remove contaminated clothes, wash skin thoroughly with water and soap.	
Eye contact:	Rinse immediately with plenty of water for at least 5 minutes (remove lenses if possible). Do not flush into direction of other eye. Contact an eye doctor if pain persists.	
Ingestion:	Do not induce vomiting. Call a physician. Contact doctor or local anti-poison centre to determine whether or not it is necessary to make victim vomit. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766).	
Inhalation:	Remove victim to fresh air. Consult a physician.	
Note to Physician:	No specific antidote. Supportive care. Treat symptomatically.	

<b>5) Fire-Fighting Measures:</b>	
Fire hazard	Slight fire hazard.
Prevention	Keep away from sources of ignition. No smoking.
Extinguishing media	<b>Suitable:</b> Dry chemical, carbon dioxide, water fog or spray, standard foam. <b>Unsuitable:</b> High pressure water jet media.
Hazardous combustion products	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
Protective equipment for fire-fighters	Fire-fighters should wear approved self-contained breathing apparatus and full protective clothing.
Additional information	Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.
<b>6) Accidental Release Measures:</b>	
Personal precautions:	Ventilation, protective gloves, safety goggles. Wear appropriate protective gear for the situation.
Environmental precautions	Do not wash into sewers or other water sources. Advise responsible authorities if spillage has entered water course or drainage system.
Clean up methods	Do not touch spilled material. Stop leak if it can be done without risk. <b>For small spills:</b> Take up with sand or other absorbent material and place into containers for later disposal. Move containers from spill area. <b>For larger spills:</b> Dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.
<b>7) Handling &amp; Storage:</b>	
Handling precautions	Keep product in original tightly closed container; do not get on skin, eyes or clothing; do not eat, drink or smoke when handling; wash hands before eating, drinking or smoking and after work.
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.
<b>8) Exposure Control / Personal Protection:</b>	
Exposure control limits: <b>Clopyralid:</b>	TWA 10 mg/m <sup>3</sup>

Ventilation	Provide local exhaust or general dilution ventilation.
Respiratory protection	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.
Hand/skin protection	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.
- Eye/face protection	Wear splash-proof or dust-resistant safety goggles.
<b>9) Physical &amp; Chemical Properties:</b>	
Physical state at 20 °C:	Liquid
Colour:	Brown
Odour:	-
Boiling point:	± 100 °C
Melting point:	n/a
Density:	1.14
Surface tension [mN/m]:	33-46 mN/m
pH:	5.2 (6.0 at 1% dilution)
Flammability:	Not flammable
Ignition Temperature: [°C]:	-
Viscosity:	-
Solubility in water	Miscible.
<b>10) Stability &amp; Reactivity:</b>	
Stability	Stable under normal temperatures and pressures.
Conditions to avoid	Avoid heat, flames, sparks and other sources of ignition. Avoid extreme temperatures and contact with incompatible products.
Incompatibilities	Strong basic, acidic or oxidising materials.
Hazardous decomposition	None under normal conditions of storage and use.
<b>11) Toxicological Information:</b>	
<b>VIVENDI 300</b> (Based on calculations) - Acute LD50 oral rats - Acute LD50 dermal rats Non- irritating to eyes and skin (rabbits)	> 2000 mg/kg b.w. > 4000 mg/kg b.w.

<p><b>Clopyralid (Acid)</b>  Toxicity data  - LD50 oral, male rat  - LD50 oral, female rat  - LD50 skin, rabbit  - LC50 (4h), rats  Severe eye irritant, not a skin irritant. Non-carcinogenic, non-mutagenic, non-teratogenic and produces no significant toxicological effects on reproductive parameters.</p>	<p>3738 mg/kg  2675 mg/kg  &gt; 2000 mg/kg  &gt; 0.38 mg/l</p>
<p><b>12) Ecological Information:</b></p>	
<p><b>VIVENDI 300</b>  No information available</p>	
<p><b>Clopyralid (acid)</b>  Ecotoxicity data:  - 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) <i>Lemna Gibba</i>:</p>	<p>1465 mg/kg  &gt; 2000 mg/kg  &gt; 4640 mg/kg  &gt; 4640 mg/kg  103.5 mg/l  125.4 mg/l  &gt; 11 µg/bee  &gt; 1000 mg/kg soil  225 mg/l  6.9 mg/l (cell count)  7.3 mg/l (cell volume) (<i>Selenastrum capricornutum</i>)  89 mg/l</p>
<p>On ingredients</p>	<p>See Heading: Information on ingredients.</p>
<p><b>13) Disposal Considerations:</b></p>	
<p>Disposal:</p> 	<p>Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.</p>
<p>Empty container precautions:</p>	<p>Avoid contamination of any water supply with chemical or empty container.</p>

<b>14) Transportation Information:</b>	
Rail/road (RID/ADR):	<p>UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, CLOPYRALID.            Class:            Packaging Group II            UN: 3082</p> 
Sea (IMDG code):	<p>UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, CLOPYRALID.            Class:            Packaging Group II            UN: 3082            Marine Pollutant</p> 
Air (ICAO/IATA):	<p>UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, CLOPYRALID.            Class:            Packaging Group II            UN: 3082</p> 
<b>15) Regulatory Information:</b>	
Approved handlers:	This product must be under the care of an approved handler during use.
Tracking:	No.
ACVM controls:	See <a href="http://www.nzfsa.govt.nz/acvm/">www.nzfsa.govt.nz/acvm/</a> for registration conditions.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document**