

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Endow 600SC Product Use: Insecticide

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: 8 January 2025 v2

Section 2. Hazards Identification

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

EPA Approval No: HSR101319

Pictograms:







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H422	Hazardous to soil organisms
Hazardous to terrestrial vertebrates.	H432	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates.	H441	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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/w)	CAS NUMBER.
Clothianidin	60.00	210880-92-5
Not hazardous	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 affected areas with soap and water. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Rinse mouth. 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.

Immediately call a POISON CENTER or doctor/physician.

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: Causes mild skin irritation. **Eve:** Causes serious eye irritation.

Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable or combustible.
Hazards from products	Products of combustion are toxic and or irritants. Specific hazards in a fire: Hydrogen chloride, hydrogen cyanide,
products	carbon monoxide and nitrogen oxides.
Suitable	Use water (not direct jet), foam, dry chemical, carbon dioxide or sand
Extinguishing media	to extinguish fires.
Recommended protective clothing & Precautions for firefighters	Wear Self-contained breathing apparatus and appropriate chemical-protective clothing.
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:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal. Dispose of waste safely, according to local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- · Read label before use.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store securely out of reach of children.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds and sources of ignition.
- Protect from extreme temperatures and direct sunlight.

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 2023 14TH EDITION.

Engineering Controls / Industrial Hygiene

Local exhaust and general ventilation must be adequate to meet exposure standards. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. 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	Body protection (chemical protection suit, boots) must be chosen depending
	on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Use particle filter
	with medium efficiency for solid and liquid particles.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work. Clean protective gear and contaminated equipment with soap or soda solution.

Section 9 Physical and Chemical Properties

Appearance	Liquid, SC
	1 ,
Colour	Pink liquid
Odour	Characteristic
Odour Threshold	No data available
pH	5 – 7 (1% aqueous diltution)
Melting/Boiling Point	No data available
Freezing Point	No data available
Flash Point	Not applicable
Flammability	Non-flammable
Upper and Lower Explosive Limits	Not applicable
Vapour Pressure	No data available
Vapour Density	No data available
Density	1.23 g/mL
Water Solubility	No data available
Ignition Temperature	No data available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available
Surface tension	Not available

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 intense heat. Keep away from foodstuffs, acids and alkalis.
Incompatible Materials	None under normal conditions. Poisonous fumes may be released during fire.
Hazardous Decomposition Products	No decomposition products expected under normal conditions of use.

Section 11 Toxicological Information (Based on the active ingredient Clothianidin)

Acute Effects:

Acute oral toxicity [LD50	Harmful if swallowed: Mice 425 rats (male and female) >5000
mg/kg]:	
Acute inhalation toxicity	Not applicable. Rats (male and female) >6.14 (4 h)
[LC ₅₀ mg/L]:	
Acute dermal toxicity	Not applicable. Rats (male and female) >2000
[LD ₅₀ mg/kg]:	
Skin irritation:	Not applicable.
Eye irritation:	Causes serious eye irritation.
Mutagenicity:	In vitro and in vivo tests showed no mutagenic or genotoxic
	properties for the active ingredient
Carcinogenicity:	Lifetime feeding studies in rats and mice showed no
	carcinogenic properties for the active ingredient
Toxicity to reproduction:	Reproduction toxicity was observed in a two-generation study
	in rats at dose levels toxic to parent animals.
Developmental toxicity:	No developmental toxicity was observed in rats by the active
	ingredient. Developmental toxicity was observed in rabbits only
	at dose levels toxic to the dams. The developmental effects are
	related to maternal toxicity.
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	Very toxic to aquatic life with long lasting effects
information	Hazardous to soil organisms
	Hazardous to terrestrial vertebrates

Acute fich toxicity [I C-	Painhow trout > 100 carp > 100 bluggill cupfish > 120	
Acute fish toxicity [LC ₅₀	Rainbow trout >100, carp >100, bluegill sunfish >120	
mg/L] (96 h):	mg/l.	
Toxicity for daphnia [EC50	>120 mg/l	
mg/L] (48 h):		
Toxicity to algae [ErC50	Scenedesmus subspicatus >270 mg/l. E _b C ₅₀ (96 h)	
mg/L] (72 h):	for Selenastrum capricornutum 55 mg/l	
Toxicity for birds [LD50	bobwhite quail >2000 mg/kg; for Japanese quail 430	
mg/kg]	mg/kg. Dietary LC50for bobwhite quail and mallard ducks	
J. 51	>5200 mg/kg diet.	
Toxicity for worms [LC50	earthworms 13.2 mg/kg soil	
mg/kg] (14 d)	3, 3	
Toxicity bees [LD50	>0.0439 (contact), 0.00379 (oral)	
μg/bee]		
12.2 Persistence and	Clothianidin is not rapidly biodegradable	
degradability:		
12.3 Bioaccumulative	Clothianidin does not bioaccumulate	
potential:		
12.4 Mobility in soil	Soil DT ₅₀ (lab, aerobic) 143–1001 d. K _{oc} 84–345 (<i>EU Rev.</i>	
-	Rep.).	
12.5 Results of PBT and	This substance is not considered to be persistent,	
vPvB assesment	bioaccumulative and toxic (PBT). This substance is not	
	considered to be very persistent and very bioaccumulative	
	(vPvB).	
12.6 Other adverse effects	No other effects	
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 5433:2020



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. (CONTAINS 60% CLOTHIANIDIN)
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 2020

EPA Approval Code: HSR101319

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	100L		
Emergency Response Plan (Schedule 5)	100L		
Secondary Containment (Schedule 5)	100L		
Tracking (Schedule 26)	Not required		
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls		
	document - HSR101319		
HSNO Additional Controls (Restrictions of use)			
77A - Seed treatment - seed coating	Any person treating seeds treated with this		
requirements	substance must ensure that the seeds are		
	film coated at the time of treatment.		
77A - Use restrictions	This substance must only be applied as a		
	seed treatment.		

Product Name: Endow 600SC SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 8 January 2025 Tel: 64 9 475 5240 www.techcomp.co.nz

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77A- Seed treatment – information requirements	Information must be provided with seeds coated with this substance that indicates the substance that the seeds have been treated with, its hazardous properties and precautions to be taken in handling the seeds.
ACVM Act and Regulations	
ACVM Approval No	P9660
See www.foodsafety.govt.nz for registration	
controls	

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 2023 14th 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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Please contact Adria, if further information is required.

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