Safety Data Sheet



Pasture Guard 2,4-D 680

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Pasture Guard 2,4-D 680
Product Code:	7923090 (20 Litres) 7923093 (200 Litres)
Recommended Use:	Selective herbicide for the control of broadleaf weeds in pasture, grass and white clover seed crops, peas and cereals.
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	9 May 2024 v2

Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	HSRO	00962	
Pictograms:			¥_
Signal Word: DANGER		iER	
GHS Classification and Cate	gory	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4		H302	Harmful if swallowed.
Skin sensitisation Cat. 1		H317	May cause an allergic skin reaction.
Specific target organ toxicity – repeated exposure Cat. 1		H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat 1		H400	Very toxic to aquatic life.

acute Cat. 1		, ,
Hazardous to the aquatic environment chronic Cat. 1	H410	Very 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
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fume, vapours 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.

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.	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	
Storage Code	Storage Statement	
None allocated		
Disposal Code	Disposal Statement	
P501	Dispose of according to Local Regulations or Authorities	

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
2,4-D acid, present as the ethyl hexyl ester	1928-43-4	68%
Non hazardous materials		To 100

Section 4: FIRST AID MEASURES

Routes of Exposure:			
If in eyes:	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.		
If on skin:	Take off contaminated clothing. Wash affected area thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/ attention.		
If ingested:	Rinse mouth. Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.		
If inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.		
Most important symptoms and effects, both acute and delayed			
Symptoms:	Please refer to Section 11 for full details and symptoms.		
Eyes:	Not applicable.		
Skin:	May cause an allergic skin reaction.		
Ingested:	May be harmful if swallowed.		
Inhaled:	Not applicable		
Chronic:	Causes damage to organs (oral) through prolonged or repeated exposure.		
Notes to Doctor:	Treat symptomatically. Product contains petroleum solvent. Danger from lung aspiration must be		
	weighed against toxicity when considering emptying the stomach.		

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable
Hazards from combustion products	If involved in a fire, may evolve toxic fumes .
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Precautions for firefighters and special Full protective clothing and self-contained breathing apparatus.	
protective clothing	
HAZCHEM CODE	3Z

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. **Environmental precautions:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority. **Methods and material for containment and cleaning up:**

Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of according to Section 13.

Section 7: HANDLING AND STORAGE

Handling:	Read carefully and follow all instructions.
	Avoid contact with skin, eyes and inhalation of spray mist.
	Do not breathe fume, vapours 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.
	Avoid release to the environment.
	Wear protective clothing as detailed in Section 8.
	Beware; Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other
	desirable plants.
	Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be
	kept.
Storage:	Keep out of reach of children.
	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed and in a locked, dry, cool area away from sources of heat and ignition, foodstuffs, fertiliser and seed.
	Store in accordance with NZS 8409 Management of Agrichemicals. This product is subject to signage
	and secondary containment when stored in quantities of 100litres or more, either alone or in aggregate
	with substances of the same hazard classification. More than 100litres requires emergency response
	plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations
	(Emergency Management and Identification Regulations).

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA	STEL
Substance	ppm mg/m³	ppm mg/m³
ALC IN THE		

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.

Engine	eering	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or
Contro	Controls: other engineering controls to keep airborne levels below exposure limits. Avoid	
		inhalation of spray mist.

Personal Protection Equipment:

Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely,
	wear safety goggles.
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely,
	wear chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
Respiratory:	Wear respiratory protection in areas of poor ventilation.
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and
	face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear brown
Odour	Phenol Odour
Odour Threshold	Not available
рН	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>93°C
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available

Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.135 – 1.145
Water Solubility	Emulsifies in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Other information	(EC) Emulsifiable Concentrate

Section 10: STABILITY AND REACTIVITY

Stability of Substance	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions	Not available
Conditions to Avoid	None known.
Incompatible Materials	Avoid contact with strong acids, alkalis and oxidising agents
Hazardous Decomposition Products	None known.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	May be harmful if swallowed. LD ₅₀ (rat) 1045mg/kg
Dermal	Not triggered. LD ₅₀ (rabbit) >4000mg/kg
Inhalation	Not triggered, however may cause headaches and drowsiness. When applying this product avoid inhalation of spray mist.
Eye	May cause temporary irritation but corneal injury is not anticipated.
Skin	May cause an allergic skin irritation. Prolonged contact with the skin may cause irritation and sensitisation.

Chronic Effects:

inonic Eriects.		
Carcinogenicity	Not triggered.	
Reproductive Toxicity	Excessive dietary levels of 2,4-D have caused decreased weight and survival in offspring in	
	rats in a reproduction study.	
Germ Cell Mutagenicity	Not triggered.	
Aspiration	Not triggered.	
STOT/SE	Not triggered.	
STOT/RE	Causes damage to organs (oral) through prolonged or repeated exposure.	
Chronic Effects	Excessive exposure may have adverse effects on liver, kidneys, gastrointestinal tract and muscular	
	system.	

Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

Product:

Persistence and degradability/Mobility	Low mobility in soil. 2,4-D (ethyl hexyl ester) is readily hydrolysed in the soil to parent acid. The rate of breakdown is dependent on climatic conditions and soil characteristics such as organic content and soil moisture, which affect the level of organic matter in soil.
Bioaccumulation	No data available.
Other adverse effects	Avoid unintended release into streams and waterways.

Section 13: DISPOSAL INFORMATION

Disposal Method:		Triple rinse container and add rinsate to the spray tank. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs.
Container Disposal:	AGRECOVERY	Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Tel: 64 9 475 5240 www.techcomp.co.nz

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

IVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ESTER 68%)
IVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2.4-D ESTER 68%)
IVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2.4-D ESTER 68%)
S
the product's individual container is below 5L it can be transported as a non-DG as long as the oduct packaging is still labelled as per DG requirements and the driver is given safety formation in accordance with Chapter 3.4 of the UNRTDG.
0

Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020EPA Approval Code:HSR000962

HSW (HS) Regulations 2017	Trigger Quantity	
Signage Trigger Quantities (Schedule 3)	100L	
Emergency Response Plan (Schedule 5)	100L	
Secondary Containment (Schedule 5)	100L	
Tracking (Schedule 26)	Not required	
Certified Handlers	Not required	
Location Certificate	Not required	
HSNO Additional Controls (Restrictions of use)		
77A -	The substance must not be applied onto or into water.	
ACVM Act and Regulations		
See www.foodsafety.govt.nz for registration conditions P8364		

Section 16: OTHER INFORMATION

Glossary

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

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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Ravensdown, if further information is required.

Issue Date:

9 May 2024

Review Date:

9 May 2029