

ADMIRE ESTER 680

Section 1: Identification

Product name:	Admire ester 680
Other names:	680 g/litre 2,4-D as 2,4-D ethylhexyl ester as an emulsifiable concentrate.
Recommended use:	Selective herbicide for broadleaf weed control in pasture and turf
Manufacturer/Importer details:	AgStar New Zealand Pty Ltd 4 Putakitaki Street, Lincoln, Christchurch 7608
Distributor:	Farmlands Co-operative Society Limited 535 Wairakei Road, Burnside, Christchurch 8053 TEL 0800 200 600
24 hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poisons Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

HSNO Approval: Hazardous classification:	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996. HSR000962 Acute oral toxicity Category 4, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1
Pictograms:	
Signal word:	DANGER
Hazard statements:	H302 Harmful if swallowed H317 May cause an allergic skin reaction H372 Causes damage to organs through prolonged or repeated exposure H400 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects Very toxic in the soil environment Harmful to terrestrial vertebrates
Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands, arms and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of

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Response statements:	the workplace P273 Avoid release to the environment. P280 Wear protective gloves P101 If medical advice is needed, have product container or label at hand. P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 Rinse mouth P332+P317 If skin irritation occurs get medical advice P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention. P363 Call a POISON CENTRE or doctor/physician if you feel unwell. P314 Get medical advice/attention if you feel unwell P391 Collect spillage
Storage statements:	-
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details.
Additional Label Requirements:	Do not apply into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion</i>
2,4-D acid*	94-75-7	670 - 690 g/L
Other ingredients	Proprietary	To 1L

* In the form of 2,4 D ethylhexyl ester (CAS No.: 1928-43-4, content 90%w/v).

Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor for advice if you feel unwell.
Inhalation:	If inhaled, immediately move to fresh air and rest. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth.
Skin contact:	If skin or hair contact occurs, remove contaminated clothing and wash affected area with soap and running water. If skin irritation rash occurs, get medical attention.
Eye contact:	If splashed in eyes, wash out immediately with running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

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Section 5: Fire-fighting measures

Flammability:	Non-flammable.
Appropriate extinguishing media:	Water spray, foam, dry powder, carbon dioxide. Avoid water jet.
Hazardous decomposition products:	Fire may produce emitting toxic fumes including those of hydrogen chloride and phosgene.
Special protective equipment and precautions for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent run-off from contaminating drains, sewers or waterways. Inform appropriate authorities immediately if product or run-off enters waterways.
HAZCHEM code:	3Z

Section 6: Accidental release measures

Personal precautions:	Wear protective clothing (overalls buttoned at wrist and neck), chemical resistant gloves and boots and chemical goggles or face shield.
Environmental precautions:	Contain and collect spillage. Prevent chemical contaminating drains or watercourses by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters waterways or sewers. Prevent chemical contaminating soil.
Procedure for clean up:	Collect spill and absorb residues with inert absorbent material such as sand, soil or clay granules. Collect into an appropriate, labelled, waste container and dispose of at an approved facility. Prevent runoff entering waterways or contaminating the soil.

Section 7: Handling and storage

Safe handling:	Read label before use. Use only outdoors or in a well-ventilated area. Wear protective clothing; chemical goggles or a face shield, impervious gloves, overalls and boots when handling.. Wash splashes from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash contaminated clothing before re-use.
Safe storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from foodstuffs, seeds, and fertilisers. Store in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing 100 litres or more of Admire ester 680 are subject to signage, require secondary containment, and an emergency response plans.

Section 8: Exposure controls/personal protection

Occupational exposure limits:

<i>Ingredient</i>	<i>CAS No.</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
2,4-D	94-75-7	10 mg/m³	-

Biological limit value:

None set as of WorkSafe's 14th edition of WES and BEI values.

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Engineering controls:	Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.	
Respiratory protection:	Wear half or full mask fitted with vapour filter when mixing or applying spray.	
Hand protection:	Elbow length, chemical resistant gloves (e.g. PVC, rubber, neoprene or nitrile).	
Eye protection:	Goggles with side pieces or a face shield.	
Skin protection:	Overalls and PVC or rubber boots.	
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.	
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.	
Section 9: Physical and chemical properties		
(a)	Appearance:	Amber Liquid
(b)	Odour:	Odourless
(c)	Odour threshold:	Not available.
(d)	pH:	3.0 – 5.0 (1% aqueous solution).
(e)	Melting point/freezing point:	Not available.
(f)	Initial boiling point and boiling range:	No data available
(g)	Flash point:	No data available
(h)	Flammability (solid, gas):	Not applicable.
(i)	Upper/lower flammability or explosive limits:	Not available.
(j)	Vapour pressure:	No data available.
(k)	Vapour density:	No data available.
(l)	Relative density:	No data available
(m)	Solubility:	Completely emulsification in water.
(n)	Partition coefficient: n-octanol/water:	Not available.
(o)	Auto-ignition temperature:	Not available.
(p)	Decomposition temperature:	Not available.
(q)	Kinematic viscosity:	Not available.
(r)	Particle characteristics	Not applicable.

Section 10: Stability and reactivity

Stability of the substance:	Stable under normal conditions.
Conditions to avoid:	Extreme temperatures direct sunlight.
Incompatible materials:	Incompatible with strong basic or oxidizing agents.
Hazardous decomposition products:	Under heating conditions: carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke may be emitted, nitrogen and its compounds, may emit and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas, hydrogen chloride gas, other compounds of chlorine and water may be produced.

Section 11: Toxicological information

	Toxicity classifications determined by assessment of the components in the formulated mixture.
a) Acute toxicity:	Harmful if swallowed.
b) Aspiration hazard:	Not classified
c) Respiratory irritation:	Not classified.
d) Skin corrosion / irritation:	Not classified.
e) Serious eye damage / irritation:	Not classified
f) Respiratory or skin sensitisation:	May cause an allergic skin reaction.
g) Germ cell mutagenicity:	Not classified.
h) Carcinogenicity:	Not classified.
i) Reproductive toxicity:	Not classified.
j) Specific organ toxicity:	Cause organ from repeated oral exposure at high doses.
k) Narcotic effects:	Not classified.
l) Other adverse effects:	No information.
m) Toxicological information for 2,4-D acid :	ACUTE ORAL LD50: 1074 mg/kg in the rats ACUTE DERMAL LD50 >2000 mg/kg in rats INHALATION LC50 >0.78mg/l in rats

Section 12: Ecological information

	Ecotoxicological classifications determined by assessment of the active ingredient.
(a) Aquatic ecotoxicity:	Very toxic to aquatic organisms and with long lasting effects.
(b) Soil ecotoxicity:	Very toxic in the soil environment.
(c) Terrestrial vertebrate ecotoxicity:	Harmful to terrestrial vertebrates.
(d) Terrestrial invertebrate ecotoxicity:	Not classified.
(e) Persistence and degradability:	No data available.
(f) Potential to be bioaccumulative:	No data available

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(g)	Mobility in soil.	No data available
(h)	Ecotoxicological information for active ingredient (Atrazine):	Acute Toxicity – Fish LC50 (96 hr) for (rainbow trout) is > 100 mg/l. Acute Toxicity – Daphnia LC50 (48hr) for 2,4-D amines is 235 mg/l. Acute Toxicity – Other Organisms Birds: Not toxic to birds. LD50 for (mallard ducks) is >1000 mg/kg Bees: Not toxic to bees. LD50 104.5 µg/bee.
Section 13: Disposal considerations		
Product disposal:		Dispose of product only by using according to the label, or at an appropriate landfill. Dispose of unused spray mix and equipment cleaning water onto non-grazed and noncropped ground away from edible and flowering plants. Do NOT dispose of this product, spray mix or equipment cleaning water down drains or sewers
Container disposal:		Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill. Do not reuse this container for any other purpose.
Section 14: Transport information		
UN number:		3082
UN proper shipping name:		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2,4-D 68%)
UN class:		9
Packing group:		III
HAZCHEM:		3Z
Marine pollutant:		Yes
Special precautions:		- This product is classified as a Dangerous Good Class 9. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information.
Section 15: Regulatory information		
HSNO:		Approved substance under the HSNO Act 1996.
Substance approval number:		HSR000962
Tolerable exposure limit / environmental exposure limit:		No limits set.
HSNO controls:		See www.epa.govt.nz
		Qualifications Yes
		Tracking: No
		Safety Data Sheet: Any quantity
		Restricted to workplace only: No
		Quantity that must be secured when unattended: -
		Fire extinguishers -

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	Quantity for secondary containment and emergency response plan: 100 L Quantity for signage: 100 L Quantity for Location certificate: - Records of use (3 kg or more applied to area within 24 hours): Yes Quantity that requires management in accordance with HSW HS Regulations: - Hazardous Substances (Packaging) Notice 2017; Clause 9: UN Pack Group III
Additional controls:	-
Additional information:	Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Refer to WorkSafe for additional information on controls in the workplace; www.worksafe.govt.nz.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Registration number:	P10205
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	03/09/2025
Reason for reissue:	Updated label
Replaces:	Not applicable
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances databases. Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group Bw: Bodyweight. HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial

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Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational
Protective Footwear: **AS/NZS2210**

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.