



AGRO-ALLIANCE
(AUSTRALIA) PTY LTD

Product Name: Agro-Essence Clethodim 240EC

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This version issued: January, 2026

Section 1 - Identification of the Material and Supplier

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Product Name: Agro-Essence Paraquat 360 Herbicide

APVMA Code: 95277

Recommended Use of the Chemical and Restriction on Use: Agricultural herbicide

Product Use: Agricultural herbicide for use as described on the product label.

Creation Date: November, 2025

This version issued: January, 2026 and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



skull and crossbones

Acute Toxicity (Oral) 3

H301 Toxic if swallowed.

Acute Toxicity (Dermal) 3

H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) 2

H330 Fatal if inhaled.



Health hazard

STOT RE 1

H372 Causes damage to organs through prolonged or repeated exposure.



corrosion

Corrosive To Metals 1

H290 May be corrosive to metals.



Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2

H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A

H319 Causes serious eye irritation.

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STOT SE 3

H335 May cause respiratory irritation.

Signal Word: Danger**Hazard statements:**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H330 Fatal if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P320 Specific treatment is urgent (see on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P390 Absorb spillage to prevent material damage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

Section 3 - Composition/Information on Ingredients**Chemical Characterization:** Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

Chemical name	CAS No	Proportion
Paraquat (present as paraquat dichloride)	1910-42-5	360 g/L
Other ingredients determined not to be hazardous		Balance

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Section 4 - First Aid Measures

FIRST AID

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Seek immediate medical attention. Immediately rinse mouth with water and give absorbent such as charcoal or bentonite (100 g for adults or 2g/kg body weight for children). Never give anything by mouth to an unconscious person.

Symptoms Caused by Exposure:

Inhalation: Fatal if inhaled. May cause respiratory irritation. May cause nose bleeds.

Skin Contact: Toxic in contact with skin. Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Toxic if swallowed. May cause gastrointestinal irritation, diarrhoea and inflammation of the mouth, throat and oesophagus.

Medical Attention and Special Treatment:

The use of gastric lavage without administration of an absorbent has not shown any clinical benefit.

Do not use supplemental oxygen.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media: Water fog, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use full water jet as it may scatter and spread the fire.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic and irritating vapours and thick black smoke.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Decontaminate spill area with water and detergent and rinse with water.

Section 7 - Handling and Storage

Precautions for Safe Handling:

May be corrosive to metals.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

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Store in a cool, dry and well-ventilated area. Keep container tightly closed when not in use. Protect from direct sunlight. Keep away from aluminium, iron and steel.

Section 8 - Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection:

Elbow length PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

Section 9 - Physical and Chemical Properties:

Appearance:

Form: Liquid

Colour: Green

Odour: Characteristic

Odour Threshold: No information available

pH-Value: 4 - 6

Melting point/freezing point: No information available

Initial Boiling Point/Boiling Range: No information available

Flash Point: 107 °C

Flammability: Product is not flammable.

Auto-ignition Temperature: >650 °C

Decomposition Temperature: No information available

Explosion Limits:

Lower: No information available

Upper: No information available

Vapour Pressure: No information available

Density at 20 °C: 1.137 g/cm³

Vapour Density: No information available

Evaporation Rate: No information available

Solubility in Water: Soluble

Partition Coefficient (n-octanol/water): No information available

Metal Corrosivity: Corrosive to tin plate, galvanised sheet metal and steel. Not corrosive to stainless steel.

Viscosity: No information available

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

May be corrosive to metals.

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Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Aluminium, iron and steel.

Hazardous Decomposition Products: Toxic and irritating vapours and thick black smoke.

Section 11 - Toxicological Information

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

CAS: 1910-42-5 Paraquat (present as paraquat dichloride)

dermal (rat) LD50: 80 mg/kg^[2]

Inhalation (rat) LC50: 0.0015 mg/l/6H^[2]

Oral (rat) LD50: 57 mg/kg^[2]

Acute Health Effects

Inhalation: Fatal if inhaled. May cause respiratory irritation. May cause nose bleeds.

Skin: Toxic in contact with skin. Causes skin irritation.

Eye: Causes serious eye irritation.

Ingestion:

Toxic if swallowed. May cause gastrointestinal irritation, diarrhoea and inflammation of the mouth, throat and oesophagus.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for paraquat (as cation) for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.45 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2019).

Section 12 - Ecological Information

Ecotoxicity:

Aquatic toxicity:

CAS: 1910-42-5 Paraquat (present as paraquat dichloride)

EC ₅₀ /48 h	6.1 mg/l (daphnia)
EC ₅₀ /72 h	0.00103 mg/l (diatom)
	0.6 mg/l (pseudokirchnerie lla subcapitata)
LC ₅₀ /96 h	55 mg/l (rainbow trout)

Persistence and Degradability: Paraquat is persistent in soil. Half-life in soil ~ 20 years.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: Paraquat is rapidly bound to soil particles and is immobile in soil.

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Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Disposal Methods and Containers:

Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

Section 14 - Transport Information

UN Number	UN2922
ADG, IMDG, IATA	
Proper Shipping Name	
ADG	CORROSIVE LIQUID, TOXIC, N.O.S. (Paraquat (present as paraquat dichloride)), ENVIRONMENTALLY HAZARDOUS
IMDG	CORROSIVE LIQUID, TOXIC, N.O.S. (Paraquat (present as paraquat dichloride)), MARINE POLLUTANT
IATA	CORROSIVE LIQUID, TOXIC, N.O.S. (Paraquat (present as paraquat dichloride))
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Subsidiary Risk:	6.1 Toxic substances.
Packing Group:	
ADG, IMDG, IATA	III
Marine pollutant:	Yes
	Symbol (fish and tree)
EMS Number:	F-A, S-B
Hazchem Code:	2X
Special Provisions:	223, 274
Limited Quantities:	5 L
Packagings & IBCs - Packing Instruction:	P001, IBC03
Portable Tanks & Bulk Containers - Instructions:	T7
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP28

Section 15 - Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 1910-42-5 Paraquat (present as paraquat dichloride)

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 7

Section 16 - Other Information

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Acute Toxicity (Inhalation) 3: Acute toxicity – Category 3

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Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Skin Sensitisation 1A: Skin sensitisation, Hazard Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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End of SDS

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