



**AGRO-ALLIANCE**  
(AUSTRALIA) PTY LTD

Product Name: Agro-Essence Clethodim 240EC

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This version issued: December, 2023

## Section 1 - Identification of the Material and Supplier

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**Product Name:** Agro-Essence Flupropanate 745 Herbicide

**APVMA Code:** 94044

**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, 2023

**This version issued:** December, 2023 and is valid for 5 years from this date.

**Poisons Information Centre:** Phone 13 1126 from anywhere in Australia

## Section 2 - Hazards Identification

Not classified as hazardous according to criteria of Safe Work Australia.

Not classified as a Dangerous Good according to the ADG Code.

**Globally Harmonised System (GHS) classification of the substance/mixture:**

Under the Globally Harmonised System (GHS) this product is not classified a hazardous substance.

## Section 3 - Composition/Information on Ingredients

### Ingredients:

Chemical name	CAS No	Weight
Flupropanate sodium	22898-01-7	745 g/L
Other ingredients determined not to be hazardous		Balance

## Section 4 - First Aid Measures

### FIRST AID

**Ingestion:** If swallowed do NOT induce vomiting. Give a glass of water. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.

**Eye contact:** Immediately hold eyes open and flood with clean water until chemical is removed. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.

**Skin contact:** Immediately remove contaminated clothing and wash skin with soap and water. If skin irritation persists, seek medical advice.

**Inhalation:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Treat symptomatically.

**Indication of any immediate medical attention and special treatment needed Treatment:**

Notes to Physician: Treat symptomatically

## Section 5 - Fire Fighting Measures

**Specific Hazard:** Generally considered a low risk due to the water content, but once the water has evaporated the product is combustible.

**Extinguishing media:** Not flammable. No risk of explosion if involved in a fire. Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

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**Hazards from combustion products:** Product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or vapours generated.

## Section 6 - Accidental Release Measures

**Emergency procedures:** In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear elbow-length PVC gloves and face shield or goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, the use of a respirator is recommended.

In the case of spillage, stop leak if safe to do so, and contain spill. Prevent spillage entering drains or watercourses. Contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump contaminated spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons. Launder protective clothing before storage or re-use.

**Material and methods for containment and cleanup procedures:** To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

## Section 7 - Handling and Storage

### Precautions for Safe Handling:

No smoking, eating or drinking should be allowed where material is used or stored. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing the spray wear elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

### Conditions for Safe Storage:

Not classified as a Dangerous Good. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations. Store in the closed, original container in a well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight.

## Section 8 - Exposure Controls and Personal Protection

### Exposure Guidelines:

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

### Biological Limit Values:

No biological limit allocated.

### Engineering controls:

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours and mists are minimised.

### Personal Protective Equipment (PPE):

General: When preparing the spray wear elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water.

Personal Hygiene: After use and before eating, drinking or smoking, wash hands arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

## Section 9 - Physical and Chemical Properties:

**Appearance:** Viscous pale yellow to straw coloured liquid.

**Boiling point:** No data available.

**Freezing point:** No data available.

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**Specific Gravity:** 1.45 at 20°C.

**Solubility in Water:** Soluble.

**pH:** 8 – 10.

**Flammability:** Not flammable.

**Flashpoint (°C):** Not flammable.

**Poisons Schedule:** S6.

**Decomposition temp:** 165°C.

**Formulation type:** Water Dispersible Granule (WG).

## Section 10 - Stability and Reactivity

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

**Incompatible materials:** Avoid strong oxidising agents and strong acids or bases.

**Hazardous decomposition products:** This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke and other toxic gases will be produced.

**Hazardous reactions:** Polymerisation is unlikely.

## Section 11 - Toxicological Information

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

### **Potential Health Effects:**

#### **ACUTE EFFECTS**

**Swallowed:** Low acute toxicity. Ingestion of a large quantity of the undiluted product may result in gastro-intestinal discomfort, nausea, vomiting, loss of muscle rigidity, cyanosis and incontinence. Acute Oral LD<sub>50</sub> > 8,000 mg/kg.

**Eye:** The concentrate may cause irritation of the eyes. May cause redness, pain and discomfort.

**Skin:** May cause skin irritation after prolonged or repeated exposure and may produce skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Acute dermal LD<sub>50</sub> > 4,000 mg/kg, (> 500 mg/kg produced hardening/flaking of the skin).

**Inhaled:** Not normally a hazard due to the very low volatility of the product, but may occur at high temperatures. Inhalation of mists or sprays may cause headache and nausea.

#### **Long Term Exposure:**

**Chronic toxicity:** Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); never the less exposure by all routes should be minimised as a matter of course.

Flupropanate does not appear to be teratogenic, mutagenic or carcinogenic.

## Section 12 - Ecological Information

### **Ecotoxicity:**

Flupropanate has very low toxicity to birds and fish. Fish LC<sub>50</sub> (48 hour): carp > 10000 mg/L Fish TLm (48 hour) for carp and rainbow trout >10000 mg/L. Bird LD<sub>50</sub>: quail (male), 6750 mg/L, quail (female) 11000 mg/L.

### **Environmental Fate:**

Flupropanate is highly soluble in water and therefore highly mobile in both water and soil. Studies indicate that flupropanate sodium will persist in soil for a long period. DO NOT contaminate streams, rivers or waterways with the chemicals or used containers.

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## Section 13 - Disposal Considerations

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see Section 8. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum.

To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty containers:** Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

## Section 14 - Transport Information

**Road & Rail Transport:** This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

**Marine and Air Transport:** Product is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

## Section 15 - Regulatory Information

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 6 poison. This product is registered with the Australian Pesticides and Veterinary Medicines Authority.

This product is not classified as a Hazardous Substance under the criteria of Safe Work Australia. This product is not classified as a Dangerous Good according to the ADG Code (7th Ed).

This product is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

*Requirements concerning special training:*

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## Section 16 - Other Information

### Abbreviations and acronyms:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

HSIS: Hazardous Substances information System.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

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.

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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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