



AGRO-ALLIANCE (AUSTRALIA) PTY LTD

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(AUSTRALIA) PTY LTD
A.B.N.11 130 864 603

2, Mavron Street, Ashwood, VIC 3147, Australia
Tel: +61 3 86442677 / 86442679 Fax: +61 3 98073883 Email: info@agroalliance.com.au

Section 1 - Identification of Chemical Product and Company

Haloxyfop 520

Trade Name: Agro-Essence Haloxyfop 520 Herbicide
Product Use: A selective agricultural emulsifiable concentrate grass herbicide
Company: Agro-Alliance (Australia) Pty Ltd.
Address: 2, Mavron Street, Ashwood VIC 3147, Australia
Telephone Number: +61 03 86442677 / 86442679
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Website: www.agroalliance.com.au
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Section 2 - Hazards Identification

**Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code**

Risk Phrases: R22 Harmful if swallowed.

Safety Phrases: S2 Keep out of reach of children.

S13 Keep away from food, drink and other animal foodstuffs.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Section 3 - Composition/Information on Ingredients

Ingredients:

CHEMICAL	CAS NUMBER	PROPORTION
Haloxyfop-R-methyl ester	72619-32-0	520 g/L
Other ingredients (including water) determined not to be hazardous		Balance

Trace quantities of impurities are possible.



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Section 4 - First Aid Measures

FIRST AID

Ingestion: If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. If swallowed do NOT induce vomiting. Wash mouth out with water.

Eye contact: Immediately hold eyes open and flood with clean water. 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: Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin is irritated, seek medical advice.

Inhalation: Remove to fresh air and observe until recovered. If irritation or symptoms persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically. No specific antidote is available.

Section 5 - Fire Fighting Measures

Extinguishing media: This product is a combustible liquid (C1). Extinguish fire using foam, carbon dioxide, or dry agent. If waterspray is used, contain all runoff. Contain all runoff.

Hazards from combustion products: Will produce toxic and noxious vapours (eg. Hydrogen chloride, carbon monoxide and hydrogen fluoride) when burnt. There is a risk of containers exploding if large quantities are involved in a fire. Will not polymerise.

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 / Material and methods for containment and cleanup procedures:

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves.

In the case of spillage, stop leak if safe to do so, and contain spill. and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Keep out animals and unprotected persons. Contain all runoff.



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After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use.

Section 7 - Handling and Storage

Precautions for Safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. Wear protective equipment to prevent skin and eye contamination.

When opening the container, preparing spray and using prepared spray, wear cotton overalls and elbow length PVC gloves and face shield or goggles. Wash hands after use.

Conditions for Safe Storage: This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements. This product is a Schedule 6 Poison (S6) and must be stored in accordance with the relevant Health Department regulations.

Apparent Haloxyfop 520 Herbicide is not classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Store product in the closed, original container in a cool, 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:

Use in ventilated areas. Keep containers closed when not in use. No special engineering controls are required.

Personal Protective equipment (PPE):

Skin: When opening the container and preparing spray wear cotton overalls and chemical resistant (PVC) gloves and face shield or goggles. Avoid skin and eye contact. Wash thoroughly before smoking, eating or using toilet facilities. Wash hands after use.

Eye protection: Where potential for splash, spray or mist exists, wear chemical protective goggles or a full face shield. Emergency eye wash facilities would be located nearby. Avoid contact with the eyes.

Respiratory Protection: Generally not required. Use of a respirator may be required in certain circumstances to protect from inhalation of spray mist.



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Section 9 - Physical and Chemical Properties:

Appearance: Dark yellow, water thin liquid.

Odour: Characteristic odour.

Boiling point: No data available.

Freezing point: No data available.

Specific Gravity: 1.1 ± 0.1.

Solubility in Water: Emulsifies in water. Not soluble.

pH: No data available.

Flashpoint (°C): Not specific data, but expected to be in the range of 85-95°C.

Flammability: Combustible liquid (C1).

Poisons Schedule: S6.

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: Avoid heat sources - combustible liquid.

Incompatible materials: Strong oxidizing agent such as chlorates, nitrates, peroxides etc.

Hazardous decomposition products: None under normal conditions. In a fire toxic and noxious gases are likely to be released.

Hazardous reactions: Material is not known to polymerize.

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: This product maybe harmful if swallowed. The estimated Acute Oral LD₅₀ (rat) = 830 mg/kg.

Eye: This product maybe irritating to the eyes.

Skin: This product is non irritating to the skin and is not a sensitiser. The estimated dermal LD₅₀ > 2000 mg/kg.



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Inhaled: Inhalation of mists or sprays may produce respiratory irritation.

Long Term Exposure: In animal studies, haloxyfop has shown no evidence of mutagenic effects.

Teratogenic effects: Oral doses of 7.5 mg/kg/day of haloxyfop-methyl given to rats from days 6 to 15 of pregnancy caused delayed bone formation in the offspring.

Carcinogenic effects: Studies show that 0.1 mg/kg/day of haloxyfop-methyl for two years, the highest dose tested, does not cause cancer in rats. Similarly, 0.6 mg/kg/day for two years, the highest dose tested, is not carcinogenic to mice.

Organ toxicity: Doses of 100 mg/kg/day of haloxyfop-methyl caused kidney damage in adult rats. Doses of 0.6 mg/kg/day for 2 years in mice caused reduced body weight gains and increased liver weights in mice. In dogs, 5 mg/kg/day causes a significant decrease in serum cholesterol, as well as a decrease in thyroid weight. Haloxyfop is eliminated from the body in urine and faeces.

Section 12 - Ecological Information

Environmental Toxicology: No information is available for the product. The following information refers to the active ingredient, haloxyfop-methyl. Haloxyfop-methyl is practically non-toxic to birds. The oral LD₅₀ is greater than 2,150 mg/kg for mallard ducks. The dietary LC₅₀ (8 day) is greater than 5,620 mg/kg for bobwhite quail. Haloxyfop-methyl is practically non-toxic to fish. The LC₅₀, the concentration in water at which half of the test animals died, ranges from 96 to greater than 1000 mg/kg. Haloxyfop is not toxic to bees. The contact and oral LD₅₀ (48 hours) is 100 micrograms haloxyfop/bee. DO NOT contaminate streams, rivers or water courses.

Environmental Fate: No information is available for the product. The following information refers to the active ingredient, haloxyfop-methyl. The half-life of haloxyfop in soil is 55-100 days depending on the soil. Leaching is moderate. The half-life of haloxyfop in water is 33 days for haloxyfop at pH 5, 5 days at pH 7, and a few hours at pH 9.

Section 13 - Disposal Considerations

Spills and Disposal:

1. After Spill or accident:

Clear area of all unprotected personnel. Wear full protective clothing and equipment including chemical resistant (PVC) gloves. Prevent spill from spreading or entering waterways, sewers or underground drains. Absorb spill with absorbent material such as sand clay or cat litter. Place material into an approved drum. To decontaminate spill area, tools and equipment wash with a suitable



solution (eg organic solvent, detergent, bleach or caustic) and add the solution to the drums of waste already collected. Dispose of drummed waste and decontamination solution in accordance with the requirements of Local Authorities or State Waste Management Authorities. Do not cut or weld metal containers.

2. Disposal of empty containers after intended use:

Triple or preferably pressure 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 for appropriate disposal 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, cut or saw empty containers, as there is the possibility that fumes inside the container maybe ignited and cause the container to explode.

Section 14 - Transport Information

Road & Rail Transport: Apparent Haloxyfop 520 Herbicide is not classified as 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 in accordance with the relevant Health Department regulations. This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940.

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 under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 66422.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn: Harmful.

This product is not classified as a Dangerous Good according to the ADG Code (7th Ed).



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Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

THIS MSDS 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 MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2001(2003)]