

Section 1 - Identification of The Material and Supplier

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Chemical nature:	Ametryn is a 1,3,5-triazine derivative.
Trade Name:	Sabakem Ametryn 800 WG Herbicide
APVMA Code:	67439
Product Use:	Agricultural herbicide for use as described on the product label.
Creation Date:	August, 2013
This version issued:	June, 2024 and is valid for 5 years from this date.
Emergency telephone:	Poisons Information Centre 13 11 26 (24 hours)

Section 2 - Hazards Identification**Statement of Hazardous Nature**

This product is classified as hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

ADG Classification: Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.

Classification of the substance or mixture:

Acute Oral Toxicity Category 4

Eye Irritation Category 2B



The following health hazard categories fall outside the scope of the Workplace Health and Safety Regulations

Acute Aquatic Toxicity Category 1

Chronic Aquatic Toxicity Category 1



GHS Signal word: WARNING.

HAZARD STATEMENT(S):

H302: Harmful if swallowed.

H320: Causes eye irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S):**SAFETY DATA SHEET**

PREVENTION

- P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse mouth.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P391: Collect spillage.

STORAGE

- P402+P404: Store in a dry place. Store in a closed container.
P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

- P501: Dispose of contents and containers as specified on the registered label.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc. (% w/w)
Ametryn	834-12-8	80.0
Other components are not considered hazardous in this formulation and therefore are not required to be disclosed according to the WHS Regulations.		

Section 4 - First Aid Measures**General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. If irritation persists, repeat flushing and obtain medical advice.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

First Aid Facilities: Eyewash and normal washroom facilities. Safety deluge showers should, if practical, be provided near to where this product is being used.

Major Health Hazards: Harmful if swallowed. Symptoms of acute exposure to high doses include nausea, vomiting, diarrhoea, muscle weakness, and salivation. Ametryn is moderately irritating to the eyes, skin, and respiratory tract.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. Flammability: Product is not flammable.

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Suitable Extinguishing Media: Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters: In the event of fire and/or explosion do not breathe fumes and wear self-contained breathing apparatus and protective equipment.

Hazchem Code: 2Z (bulk transport only)

Section 6 - Accidental Release Measures

Environmental precautions: In the event of a major spill, prevent spillage from entering drains or water courses. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains.

Methods and materials for containment and cleaning up: Stop leak if safe to do so and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal

Personal precautions, protective equipment and emergency procedures: Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self-contained breathing apparatus. Use impermeable gloves with care. Eye/face protective equipment should comprise, as a minimum, protective goggles. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable Dust Mask. Use a P1 mask, designed for use against mechanically generated particles e.g. silica & asbestos. Refer to section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

If a significant quantity of material enters drains, advise emergency services.

Section 7 - Handling and Storage

Precautions for Safe Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Avoid dust formation. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Conditions for Safe Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

Exposure Standards: Exposure limits have not been established by SWA for this product.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection: No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dusts are minimised. Where an inhalation risk exists, wear a dust mask or Class P1 (particulate) respirator. See AS/NZS 1715 and AS/NZS 1716 for further information.

Eye and Face Protection: Eye protection such as protective glasses or goggles must be worn when product is being used. Emergency eye wash facilities are also recommended in an area close to where this product is being used. See Australian/New Zealand Standard Industrial Eye Protection: AS1336 and AS/NZS 1337 for more information.

Skin Protection: PVC or rubber 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

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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 Occupational Protective Clothing: AS/NZS 4501 and Occupational Protective Footwear: AS/NZS2210 for more information.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Brownish granulated solid.
Odour:	Faint odour.
Boiling Point:	Not available. Ametryn boils at 337°C (98.6kPa)
Flash Point	No data.
Freezing/Melting Point:	Ametryn melts 84-85°C
Volatiles:	No specific data. Expected to be low at 100°C.
Vapour Pressure:	Negligible at normal ambient temperatures.
Vapour Density:	No data.
Specific Gravity:	No data.
Water Solubility:	Wettable.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	Log Pow = 2.63 at 25°C
Autoignition temp:	No data.

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties. This product will not undergo polymerisation reactions.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong oxidising agents.

Hazardous Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

Section 11 - Toxicological Information

Acute Toxicity: Available data indicates that this product is toxic via oral route and is harmful if swallowed. Symptoms of acute exposure to high doses include nausea, vomiting, diarrhoea, muscle weakness, and salivation. Significant oral exposure is considered to be unlikely. However, this product is an oral irritant and may cause burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Ametryn is moderately irritating to the eyes, skin, and respiratory tract.

Significant inhalation exposure is considered to be unlikely. Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism.

Following is the acute toxicity data available for the active constituent Ametryn:

Acute oral toxicity - LD50 (Rat): 508 mg/kg; LD50 (Mice): 975 mg/kg.

Acute dermal toxicity - LD50 (Rat) >3100 mg/kg; LD50 (Rabbit) >8160 mg/kg.

Acute inhalation toxicity - LC50 (Rat): >2.2 mg/L/4hr.

Acute eye exposure in rabbits causes a temporary irritation.

Skin Corrosion/Irritation: Based on classification principles, the classification criteria are not met.

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Available data indicates that this product is not harmful. It should present no hazards in normal use. However, product is believed to be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.

Serious Eye Damage/Irritation: This product may cause eye irritation. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

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. Studies have shown that Ametryn is not mutagenic.

Carcinogenicity: Based on classification principles, the classification criteria are not met. There is not adequate data to determine if Ametryn can increase the risk of cancer in humans. No significant ingredient is classified as carcinogenic by IARC.

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

Specific Target Organ Toxicity (STOT)—single exposure: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)—repeated exposure: Based on classification principles, the classification criteria are not met.

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

Chronic Health Effects: Animal studies indicate that consuming large amounts of Ametryn over a long period of time results in liver damage.

Additional toxicological information: The ADI for Ametryn is set at 0.02mg/kg/day. The corresponding NOEL is set at 2mg/kg/day (Australian ADI List, June 2013).

Fate in Humans and Animals: Excretion of Ametryn is rapid. In rats, all but 2 to 7% is eliminated in the urine and faeces within 72 hours.

Section 12 - Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Ametryn is moderately toxic to fish, highly toxic to crustaceans and moderately to highly toxic to molluscs.

Ametryn is only slightly toxic to birds and bees.

Toxicity data on Ametryn is available:

Acute toxicity LC50 (rainbow trout): 8.8 mg/L; LC50 (bluegill): 4.1mg/L; LC50 (goldfish): 14.1 mg/L - 96 hr

Acute toxicity LC50 (mallard ducks): 23000 mg/kg; LD50 (bobwhite quail): 30000 mg/kg; LD50 (Japanese quail): 1735 mg/kg – 8 days.

LC₅₀ (Algae): 0.84mg/L, 48 hr

Persistence and Degradability:

Breakdown in Soil & Groundwater: Ametryn's half-life in soils, the amount of time it takes to degrade to half of the original concentration, is 70 to 250 days, depending on the soil type and weather conditions. Loss from the soil is principally by microbial degradation. Ametryn moves both vertically and laterally in soil due to its high-water solubility. Because it is persistent, it may leach as a result of high rainfall, floods, and furrow irrigation. In a study of surface and groundwater contaminants in the U.S, Ametryn was found in six states, in very few surface water samples and in 4% of the groundwater samples. The maximum concentration found was 0.1 micrograms/l in surface water and 450 micrograms/l in groundwater.

Breakdown in Vegetation: Ametryn is broken down into non-toxic substances by tolerant plants and, to a lesser extent, by sensitive plants.

Bioaccumulative Potential: No information available.

Mobility in Soil: Ametryn moves both vertically and laterally in soil due to its high-water solubility. Half- life in soil is 70-250 days.

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the

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disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

Road and Rail Transport

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

(a) packaging's that do not incorporate a receptacle exceeding 500 Kg (L); or

(b) IBCs.

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN Number: 3077

Proper Shipping Name or ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Technical Name: (CONTAINS AMETRYN)

Transport Hazard Class: 9

Packaging Group: III

IMDG EMS Fire: F - A

IMDG EMS Spill: S - F

Environmental hazards: Yes.

Additional Information: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.

Air Transport:

IATA provision SP A197: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported air in; packages that have inner packages (plastic bottles, glass bottles, plastic bags) of 5 L for UN3082 and 5 kg for UN3077 or less.

Section 15 - Regulatory Information

APVMA Approval no.: 67439

Poison schedule (SUSMP): Schedule 5.

AICIS: All the constituents of this material are either listed on the Australian Inventory of Industrial Chemicals (AIIC), not required due the nature of the chemical as they are excluded as an industrial chemical or have been assessed under the Industrial Chemicals Act 1989 as amended.

Section 16 - Other Information

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

Issue Date: June 2024

Reason(s) for issue: Five-year update and updated to latest GHS requirements.

Key abbreviations or acronyms:

ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)

AICIS – Australian Industrial Chemicals Introduction Scheme (formerly NICNAS)

AIIC - Australian Inventory of Industrial Chemicals

APVMA – Agricultural Pesticides and Veterinary Medicines Australia

CAS number - Chemical Abstracts Service Registry Number

GHS - Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition) 2017

Hazchem Code - Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC - International Agency for Research on Cancer

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (June 2023)

STEL - Short term exposure limit means the average airborne concentration of a substance calculated over a 15 minute period. The STEL should not be exceeded at any time during a normal eight hour working day.

SUSMP - Standard for the Uniform Scheduling of Medicines & Poisons

SWA - Safe Work Australia, formerly ASCC and NOHSC

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TGA – Therapeutic Goods Australia

TWA - Time-weighted average means the average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

UN Number - United Nations Number

WHS – Workplace Health and Safety

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD STATEMENT: INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS 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 SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" ((June 2023) and GHS Revision 7
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