

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Agrivi South Africa (Pty) Ltd
 Co. Reg. No.: 2005/024417/07
 PO Box 2280
 Krrostad
 South Africa, 9500

Tel No: 083 564 8357

Email: admin@agrivi.co.za

Substance: Ametryn
Product Name: Erbicid 500 SC
Product Use: Herbicide
Creation Date: May 2022
Revision Date:

24 Hr Emergency Number: 083 564 8357
In case of Poisoning: 083 564 8357
Poison Information Centre:
Tygerberg Hospital: (021) 931 6129
Poison Emergency Enquiries: (021) 689 5227
In case of Spillage: 083 564 8357
HAZMAT:

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common name: Ametryn
Chemical Name: N²-ethyl-N⁴-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine (IUPAC)
Chemical Family: Triazine
Chemical Formula: C₉H₁₇N₅S
CAS No.: 834-12-8
Use: A selective systemic herbicide for pre- and post-emergence control of most annual grasses and broad-leaved weeds. Absorbed by the leaves and roots, with translocation acropetally in the xylem and accumulation in the apical meristem. Photosynthetic electron transport inhibitor at the photosystem II receptor site.
Formulation: Ametryn 490 g/l plus related triazines 10 g/l soluble concentrate

Hazardous ingredients of toxicological concern:

| Inert: | Concern: | % present: |
|--|----------------------|-------------------|
| Ametryn | Harmful if swallowed | >50 % |
| Water | No hazard | ±45 % |
| Other non-hazardous inerts, not of concern | | ±5% |

Symbols: Xn
Risk-phrase(s): R 22, R 36/38, R 50/53
Indication of danger: Harmful

SECTION 3 - HAZARD IDENTIFICATION**MATERIAL SAFETY DATA SHEET**

Phone: 083 564 8357

Issued by: Agrivi South Africa
 Information Centre: 082 446 8946; Tygerberg: (021) 931 6129; Poison Emergency Enquiry: (021) 689 5227



Likely routes of exposure: Skin contact, ingestion and eye contact.

Skin contact: May cause mild to moderate irritation. Unlikely to cause more than mild discomfort, which should disappear once contact ceases.

Eye contact: May serious eye damage

Inhalation: May cause mild irritation to respiratory tract. No hazards in normal use, is expected.

Ingestion: Harmful. The acute toxicity to technical triazines for man is thought to be low, and no adverse health effects from exposure to these herbicides have been reported. Ametryn is slightly toxic to humans. Symptoms of acute exposure to high doses include nausea, vomiting, diarrhea, muscle weakness and salivation.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

Remove source of contamination, or leave contaminated area to fresh air as rapidly as possible. Keep the affected person warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately if effects persists.

Skin contact:

Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, seek medical advice immediately.

Eye contact:

Immediately flush contaminated eyes with gently flowing clean water for 20 minutes, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15 to 20 minutes). Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention if irritation persists.

Ingestion:

Harmful if swallowed and If swallowed seek medical advice immediately and show the container, label, or this Data Sheet, if possible. DO NOT induce vomiting. If the patient is alert and conscious, have the patient to rinse mouth thoroughly with water. Treat respiratory difficulty with artificial respiration and oxygen.

Advice to Physician:

No specific antidote is available. Treat symptomatically and supportive when required. If large amounts have been ingested, perform gastric lavage and administer activated charcoal.

SECTION 5 - FIRE-FIGHTING MEASURES

Flash point: None – This material is non-flammable.

Extinguishing Media:

For small fires, use foam, carbon dioxide, dry powder or halon extinguishing agents. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Fire Fighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use an unmanned hose holder or monitor nozzles. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.

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Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid.

Personal protective equipment:

Fire may produce irritating and/or toxic vapours, mists or other products of combustion (carbon dioxide, carbon monoxide and under some circumstances, oxides of nitrogen). Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see section 8.

Environmental precautions: Ametryn is slightly toxic to fish and very toxic to crustaceans. This product is an environmentally hazardous substance, and considered a marine pollutant. Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to Department of Water/Environmental Affairs. Considered as Marine Pollutant.

Occupational Spill: Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited.

Do not get water inside containers.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of spray and vapour. Use with adequate ventilation. Do not eat, drink or smoke while working. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. The wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Keep under lock and key out of reach of unauthorized persons, children and animals. Store in its original container in isolated, dry, cool and well-ventilated area. Not to be stored next to feeds, food and water supplies. Local regulations should be complied with.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator: It is usually safe to use the product without a respirator. Where exposure through inhalation may occur when handling and/or using the product, wear a face mask. If the product is used in dusty or confined conditions or spillage and fire conditions a respirator suitable for protection from dusts and mists of pesticides is adequate.

Eye protection: The use of chemical resistant goggles or a face shield is recommended.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

Clothing: Employee must wear appropriate protective (impervious) clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Gloves: Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white viscous liquid
Odour: No specific odour
Flash Point: Not flammable. Water based.
Solubility: Suspensible in water.
pH: 6-8

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SECTION 10 - STABILITY AND REACTIVITY**Stability:**

Stable in neutral, weakly acidic, and weakly alkaline media. Hydrolyzed by strong acids (pH 1) and alkalis (pH 13). Slowly decomposed by u.v. light.

Storage stability:

Stable for a period of 2 years under normal warehouse conditions.

Hazardous decomposition product(s):

Fire may produce carbon dioxide, carbon monoxide and under some circumstances, oxides of nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute oral LD₅₀, rats: | >2000 mg/kg |
| Acute dermal LD₅₀, rats: | >2000 mg/kg |
| Inhalation LC₅₀, 4hours, rats : | >5.0 mg/ℓ air |
| Acute skin irritation: | Not irritating to skin. Not a skin sensitizer. |
| Acute eye irritation: | Non irritant |

SECTION 12 - ECOLOGICAL INFORMATION**Degradeability:**

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.

ECOTOXICOLOGY:**Bees: Slightly Toxic to bees**

| | |
|-----------------------------|-------------|
| LD ₅₀ (contact): | >100 µg/bee |
| LD ₅₀ (acute): | >100 µg/bee |

Birds:

| | | |
|-------------------------|-----------------|-------------|
| Oral LD ₅₀ : | Japanese quail: | >2000 mg/kg |
|-------------------------|-----------------|-------------|

Fish:

| | | |
|-------------------------|----------------|-----------|
| LC ₅₀ (96h): | Rainbow trout: | >100 mg/ℓ |
|-------------------------|----------------|-----------|

| | | |
|-------------------------|----------|---------|
| LC ₅₀ (48h): | Daphnia: | 28 mg/ℓ |
|-------------------------|----------|---------|

Earthworms:

| | | |
|-----------------------------|--|----------------|
| LC ₅₀ (14 days): | | 166 mg/kg soil |
|-----------------------------|--|----------------|

SECTION 13 - DISPOSAL CONSIDERATION**Pesticide disposal:**

Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. This product is considered a marine pollutant.

Comply with local legislation applying to waste disposal.

Container disposal:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal

to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site.

Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER: 3082
Road Transport ADR/ RID:
Class: 9
Packaging group: III
Shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Ametryn 500 g/l)

Marine Transport IMDG/IMO:
Class: 9
Packaging Group: III
Shipping Name: Environmentally hazardous substance, Liquid, N.O.S. (Ametryn 500 g/l)

Air Transport (ICAO/IATA):
Class: 9
Packaging Group: III
Shipping Name: Environmentally hazardous substance, Liquid, N.O.S. (Ametryn 500 g/l)

SECTION 15 - REGULATORY INFORMATION

Symbol : Xn, N
Indication of danger: Harmful, Environmentally hazardous substance.

Risk phrases:
R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:
S 1/2 Keep locked up and out of reach of children.
S 24/25 Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 60 This material and its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instruction/safety data sheet.

SECTION 16 - OTHER INFORMATION

Packaging:
 1L, 5L & 20L plastic containers and labelled according to South African regulations and guidelines.

Disclaimer:
 The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.
 All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.