



CAUTION

**KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**



ACTIVE CONSTITUENT:
240 g/L CARFENTRAZONE-ETHYL

CONTENTS:
4 L, 5 L, 10 L, 20 L, 1000 L

SOLVENT:
261 g/L LIQUID HYDROCARBON



GROUP G HERBICIDE

For the control of Cabomba in aquatic situations as per the Directions for Use Table.

SAFETY DIRECTIONS

May irritate the nose and throat. May irritate the eyes and skin. Avoid contact with eyes and skin. Avoid inhaling vapour. When opening the container, mixing and loading and preparing spray and using product, wear cotton overalls buttoned to the neck and wrist, or equivalent clothing, and elbow-length PVC gloves. Wash hands after use. After each day's use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.
If swallowed, **DO NOT** induce vomiting. Give a glass of water.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet that can be obtained from www.fmccrop.com.au

GENERAL INSTRUCTIONS

Shark® Aquatic Herbicide is a liquid formulation which is emulsifiable in water. It is designed to be mixed with water and applied to aquatic areas for control of floating and emerged weeds. Weed control is more effective on immature, actively growing weeds than on mature, less actively growing weeds. This product is a contact herbicide with little or no residual activity at recommended use rates.

This product is rapidly absorbed through the foliage of plants. Within a few hours following application, the foliage of susceptible weeds may show signs of desiccation, and in subsequent weeks, necrosis and death of the plant.

Extremes in environmental conditions (e.g. temperature, light and pH), may affect the activity of this product. Under warm conditions, herbicide symptoms may be accelerated.

Evidence suggests that dense infestations of Cabomba may lead to lower levels of control. Furthermore, this product is a contact herbicide and usually requires re-treatment as some plants may escape herbicide contact. It is recommended that a repeat application be applied to achieve very high levels of control.

However, **DO NOT** apply subsequent applications to the waterbody within 3 months.

Use of dirty or muddy water when preparing spray mixtures to apply this product may result in reduced herbicidal activity.

Calculation of the rate of Shark® Aquatic Herbicide to use

To calculate the amount of Shark® Aquatic Herbicide to use, the following calculation can be used:

- Measure the length and breadth of the Cabomba infested area to be treated in meters.
- Measure the maximum depth of the Cabomba infested water in meters (take several measurements and use an average).
- Multiply the length by the breadth by the average maximum depth. This gives a volume in cubic meters.
- Multiple this figure by 0.004 (0.004 is a conversion factor that takes into account the slope of the sides of the waterbody as well as water volume).
- Multiply this figure by 830 mL.
- The result is the amount of Shark® Aquatic Herbicide (in mL) to be applied to the area where Cabomba is growing.

$$\boxed{} \times \boxed{} \times \boxed{} \times \boxed{0.004} \times \boxed{830 \text{ mL}} = \boxed{} \text{ mL}$$

Length Breadth Ave Depth Conversion factor Rate Amount required

Example: An area of 30 m by 20 m with an average maximum depth of 1.2 m

$$\boxed{30} \times \boxed{20} \times \boxed{1.2} \times \boxed{0.004} \times \boxed{830 \text{ mL}} = \boxed{2390 \text{ mL}}$$

RESISTANT WEEDS WARNING

GROUP G HERBICIDE

Shark® Aquatic Herbicide is a member of the Aryl triazolone group of herbicides. Its mode of action is through a process of membrane disruption, which is initiated by the inhibition of the enzyme protoporphyrinogen oxidase. This inhibition interferes with the chlorophyll biosynthetic pathway. For weed resistance management Shark is a Group G herbicide.

Some naturally occurring weed biotypes resistant to Shark and other herbicides that inhibit the enzyme protoporphyrinogen oxidase may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the population if the herbicides are used repeatedly. These resistant weeds will not be controlled by Shark or other herbicides that inhibit the enzyme protoporphyrinogen oxidase. Since the occurrence of resistant weeds is difficult to detect prior to use, FMC Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Shark® Aquatic Herbicide or other herbicides that inhibit the enzyme protoporphyrinogen oxidase.

SYMPTOMS

When applied to water, Shark is rapidly absorbed through the foliage of plants. Within a few days following application, the foliage of susceptible weeds shows signs of necrosis and later death.

TIMING

Application should be made in the spring/summer period or when weeds are actively growing.

MIXING

Add half the required volume of water in spray tank and start agitation. Add the measured amount of Shark® Aquatic Herbicide next. Add balance of water to tank. Mix in 50 L of water as a minimum. Maintain good agitation at all times until spraying is completed.

APPLICATION

Shark® Aquatic Herbicide can be applied to water by sub-surface injection, boom spray application or high pressure hand held wand application with fixed low drift nozzles. Sub-surface injection is the preferred method of application. Use other methods when sub-surface injection is not practical. For all types of applications, it is important to ensure that an even spread of the product is applied over the entire Cabomba infestation to reach the target concentration of 2 ppm within the treated area. Avoid high local concentrations that will occur if applied to a single area.

Apply in a minimum total spray volume of 50 L. Application using equipment set to produce **VERY COARSE** to

EXTREMELY COARSE droplets will increase direct application onto the water surface and will minimise spray drift. Apply as low as possible above the water surface. Do not apply > 50 cm above the water surface.

Use nozzle types such as: Air Induction, low-pressure fans, flooding flat fan nozzles and other nozzle types commonly used for 'flood' applications to soils are suited for treating Cabomba. DO NOT use an adjustable hand held spray nozzle as these produce large and fine droplets which can increase drift potential. Avoid spraying in still conditions, conditions conducive to inversion and in winds likely to cause drift.

Mandatory Instructions for Ground Applications

Use only nozzles that the manufacturer has rated to deliver a VERY COARSE or an EXTREMELY COARSE droplet size category as referenced to ASAE S572 or BCPC. Choose a nozzle specified to provide the droplet size category required in the label spray Drift Restraints. **DO NOT** use an adjustable hand held spray nozzles.

DO NOT use a higher spray system pressure than the maximum the manufacturer specifies for the selected nozzle to deliver the droplet size category required in the label Spray Drift Restraint.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate streams, rivers, wetlands or waterways with this product or used containers. Treated water may remain toxic for aquatic life for up to 14 days after application.

Fish

Most fish are not adversely affected by Shark® Aquatic Herbicide, however treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. For this reason it is advised to only treat 50% of the volume of the water body. If de-oxygenation occurs, the water will need to be oxygenated by aerating the water or the introduction of fresh water to the treated water. If additional water is added, efficacy maybe adversely affected.

Therefore, treat small sections of the water body area at one time. Wait a minimum of 3 months before retreatment or treatment of another section of the water body. **DO NOT** exceed 830 mL per 100,000 L (2 ppm) in any single application.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spray equipment, which may cause spray drift onto nearby susceptible plants, adjacent crops, or pastures, or onto wetlands, other waterbodies or watercourses.

STORAGE, SPILLAGE AND DISPOSAL

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

Triple rinse containers before disposal. Add rinsings to spray tank. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility.

DO NOT burn empty containers or product.

Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for re-fill or storage.

Spillage - In case of spillage, confine spilled product with material such as sand or clay. Dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. **DO NOT** allow spilled product to enter sewers, drains, creeks or any other waterways. Keep out animals and unprotected persons.

Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply to more than 50% in volume of the water body in a single application.

DO NOT apply to flowing water.

DO NOT allow overspray or spray drift to contact non-target plants.

DO NOT apply if heavy rains are expected to occur within 48 hours of application.

DO NOT apply subsequent treatments to the waterbody within 3 months.

DO NOT apply to water intended for human consumption.

DO NOT use treated water for irrigation for 3 months after the last application.

DO NOT use spraying equipment carried on the back of the user.

DO NOT apply using a low pressure handwand.

SPRAY DRIFT RESTRAINTS

DO NOT apply with droplets smaller than VERY COARSE or an EXTREMELY COARSE droplet size category as referenced to ASAE S572 or BCPC.

SITUATION	TARGET WEED	RATE	CRITICAL COMMENTS
Non flowing water bodies	Cabomba (<i>Cabomba caroliniana</i>)	830 mL Shark per 100,000 L water [2 ppm (2 mg/L) Carfentrazone-ethyl]	<p>To control Cabomba, apply Shark® Aquatic Herbicide onto the surface or below the surface of the water where Cabomba is growing. The intention is to achieve a concentration of 2 ppm (2 mg/L) Carfentrazone-ethyl in the water where Cabomba is growing. This requires application of the product over/into the water where Cabomba is growing. The application should be spread evenly over the Cabomba infestation regardless of the type of application used.</p> <p>DO NOT treat water where Cabomba is not growing.</p> <p>DO NOT apply where desirable species are present.</p> <p>In areas where subsurface injection is not practical, ensure that low drift application methods and equipment is used. Apply by drip or hand held boom sprayer using a minimum of 50 L water. To minimise drift when applying Shark to the water surface use high flow, minimal drift nozzle/s. Use nozzles that are designed to produce spray droplets with VERY COARSE to EXTREMELY COARSE droplet sizes (>300 µm). Use nozzle types such as: Air Induction, low-pressure fans, flooding flat fan nozzles and other nozzle types commonly used for 'flood' applications to soils are suited for treating Cabomba. Always follow the nozzle manufacturer's recommendations for spray pressure, spacing and height above the water surface.</p> <p>DO NOT use an adjustable hand held spray nozzle.</p> <p>To avoid deoxygenation of the water DO NOT apply to more than 50% in volume of the water body in a single application.</p> <p>DO NOT apply subsequent applications to the waterbody within 3 months.</p> <p>NOTE: Algae and non-target plants may also be affected by this application. Very toxic to aquatic life. Other aquatic species may be susceptible to this product.</p>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS:

NOT REQUIRED WHEN USED AS DIRECTED.

NOTICE TO BUYER

To the extent permitted by the Competition and Consumer Act (2010) or any relevant legislation of any State or Territory (the "Legislation") all conditions and warranties and statutory or other rights of action, whether arising in contract or tort or whether due to the negligence of FMC or Seller, which buyer or any other user may have against FMC or Seller are hereby excluded provided however that any rights of the buyer pursuant to non-excludable conditions or warranties of the Legislation are expressly preserved. FMC hereby gives notice to buyer and other users that to the extent permitted by the Legislation it will not accept responsibility for any indirect or consequential loss of whatsoever nature arising from the storage, handling or use of this product. Where permitted by the Legislation FMC's liability shall in all circumstances be limited to the replacement of the product, or a refund of the purchase price paid therefor.

The product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of FMC or the Seller. Buyer accepts these risks.

IN A MEDICAL EMERGENCY CALL 1800 033 111 ALL HOURS

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