

TWIGASATE 480SL



A broad spectrum, systemic, post-emergence, non-selective herbicide for the control of annual and perennial grasses and broad-leaved weeds

ACTIVE INGREDIENT: Glyphosate 480g/Lt

FORMULATION: Soluble liquid

REGISTRATION NO: PCPB (CR) 0743

MODE OF ACTION: TWIGASATE is a systemic, non-selective and post-emergence herbicide for control of many annual and perennial grasses and broad-leaved weeds in crops. Depending on the type of crop, it can be used pre-plant or post plant. When used as a post plant, care should be taken so as to avoid contact with the crop. The active ingredient (GLYPHOSATE) is quickly absorbed by foliage and green stems upon application with rapid translocation through the phloem to the growing points of the plant above and below the soil (shoots, roots, rhizomes, stolons). It acts by inhibiting biosynthesis of the essential aromatic amino acids needed for protein synthesis, which are vital for growth and survival of plants. TWIGASATE is inactivated on contact with soil.

Weed growth stops within 24 hours after application with visual symptoms of control (chlorosis) being noticed 3-7 days after application.

DIRECTIONS FOR USE:

RATE OF USE

TWIGASATE is best applied directly to actively growing weeds and not the crop.

Crop	Dosage		Remarks
	Litres/Ha	ML/20 L of water	
Tea	2-3	200 - 300	Apply the lower rate to younger weeds while higher rate to mature weeds.
Maize	2	200	Apply before or immediately after planting on already emerged weeds before the crop emerges.

HARVEST INTERVALS

PRE HARVEST INTERVAL

Coffee, banana-0 days

Cereals-Not applicable

Tea-7 days

APPLICATION INFORMATION

TWIGASATE may be used by ground application (using tractor mounted boom sprayer or knapsack sprayer) or aerial application. It is advisable when doing aerial application to spray when the weather is calm in order to avoid spray drift. Half-fill the spray tank with clean water; add the necessary quantity of TWIGASATE and stir, then top up with water. Keep on agitating when filling and during spray operations.

Note: Water volume is 200lt/ha

- Twigasate is inactivated upon contact with the soil
- Use clean water, free of soil particles
- Avoid any spraying or drifting on leaves or on any desirable crops or plants as Twigasate can be absorbed through green stem or foliage
- Do not cultivate before weeds turn yellow (chlorotic condition). Leave the sprayed area intact for at least 14 days
- Do not apply if rain and irrigation is expected within 6 hours. Avoid spraying when weeds are stressed. Avoid conditions such as drought, heat, waterlogging and any other factor that may lead to stress as these factors interfere with efficiency of Twigasate.

AVAILABLE PACKS

200ML, 500ML, 1LT, 5LT, 20LT AND 200L DRUM

COMPATIBILITY

TWIGASATE is compatible with most commonly used pesticides. However, DO NOT tank mix with any product unless your own prior testing has shown that the combination is physically compatible, effective and non-injurious under your conditions. Mixing with other herbicides may reduce the activity of TWIGASATE.

SOIL RESIDUE ACTIVITY

Twigasate has no soil residue activity. The active ingredient (glyphosate) is strongly and rapidly adsorbed to the soil and is rapidly metabolized by soil micro-organisms.

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MAIN ADVANTAGES

- **Broad spectrum activity** - Controls a wide range of annual and perennial grasses and broad leafed weeds
- **Highly systemic glyphosate herbicide** - this guarantees faster absorption and translocation to the shoots, roots and underground organs such as rhizomes and stolons thus effectively killing the weeds.
- **Flexible usage** - can be used prior to planting or after sowing but before emergence in all crops and for general weed control in established plantations such as coffee, tea, sugarcane etc
- **No soil residual activity** - no effect on microbes or subsequent crops grown in an area where Twigasate has been sprayed.
- **Safe to the environment** - Glyphosate gets inactivated upon contact with soil thus poses low risk to the environment, wildlife and the user. It does not leach to contaminate underground water
- **Rain fast** - Rain falling at least 6 hours after the application will not affect performance of the product
- **Soil and moisture conservation** - Twigasate will be the ideal herbicide for use in minimum/zero tillage and this minimizes soil and moisture loss
- **Compatibility** - Can be used with other pesticides at the time of application.

HANDLING PRECAUTIONS

- Do not smoke, drink or eat while using this product.
- Avoid eye contact. Wear safety goggles when handling the product.
- Avoid spray mist and exposure to the product. Wear rubber gloves, mask covering nose and mouth. Wear protective clothing such as long sleeved shirts, long pants and rubber boots when handling the product.
- After application wash yourself and your work clothes.

ENVIRONMENT AND WILDLIFE

The product is not toxic to fish. However, do not contaminate water sources and supplies by disposal of product waste.
Keep livestock out of treated areas. TWIGASATE is not toxic to natural enemies and beneficial insects such as bees and soil invertebrates when used at recommended rates.

FIRST AID INSTRUCTIONS

In case of eye contact: Flush the eyes with running water for at least 15 minutes while holding eyelids open to help flush out material. Contact a physician immediately.
In case of skin contact: Wash contaminated skin with soap and plenty of water. Remove contaminated clothing. If skin irritation persists, contact a physician immediately.
In case of inhalation: Remove the patient away from contaminated area and place the patient in a well-ventilated area and give artificial respiration. Keep warm and at rest. Consult a doctor.
In case of ingestion: Make the patient sip a glass of water and induce vomiting. Induction of vomiting should be considered if patient is fully conscious and less than 30 minutes has elapsed since ingestion. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Apply symptomatic therapy and supportive therapy. In case of ingestion, dilute by giving 2 glasses of water. If large quantities are ingested, apply stomach lavage, administer saline laxatives and provide circulatory support.



LEADERS IN CROP PROTECTION

Twigasate® is a trade mark of Twiga Chemical Industries Ltd.