

GUGUSATE 410SC



A non-selective herbicide for the control of annual and perennial grasses and broad leaved weeds in maize in zero/minimum tillage systems.

ACTIVE INGREDIENT: ISOPROPYLAMINE SALT OF GLYPHOSATE 410 G/KG
FORMULATION Soluble Concentrate (SC)
REGISTRATION NO: PCPB (CR) 1098 P(i)
MODE OF ACTION GUGUSATE is a systemic herbicide, absorbed by foliage and green stems with rapid translocation throughout the plant above and below the soil. It acts by inhibiting biosynthesis of the essential aromatic amino acids needed for protein synthesis. GUGUSATE is inactivated on contact with soil.
SPECTRUM OF CONTROL: RATE OF USE: GUGUSATE, a non-selective herbicide for the control of annual and perennial grasses and broad leaved weeds in maize. Care should be taken so as to avoid contact with the crop.

RATE OF APPLICATION

Crop	Weeds	Dosage	
		Litres /Ha	ML/20L of water
Maize (Minimum tillage system)	Annual weeds	2 Litres	200 - 400
	Perennial weeds	3 Litres	600

METHOD OF APPLICATION: GUGUSATE may be used by ground application (using tractor mounted boom sprayer or knapsack sprayer). Half-fill the spray tank with clean water; add the necessary quantity of GUGUSATE and stir, then top up with water. Keep on agitating when filling and during spray operations.

APPLICATION TIMING: GUGUSATE is best applied directly to actively growing weeds and not the crop.

PHYTOTOXICITY: GUGUSATE is not phototoxic when used as recommended.

SPRAYING PRECAUTIONS:

- Avoid any spraying or drifting on leaves or on any desirable crops or plants.
- Do not cultivate before weeds turn yellow.
- 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. GUGUSATE is not toxic to natural enemies and beneficial insects such as bees and soil invertebrates when used at recommended rates.

FIRST AID INSTRUCTIONS

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. GUGUSATE is not toxic to natural enemies and beneficial insects such as bees and soil invertebrates when used at recommended rates.



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.



LEADERS IN CROP PROTECTION

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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.

MAIN ADVANTAGES

- **Broad spectrum activity** - Controls a wide range of annual and perennial grasses and broad leaved 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.



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