



The Chemical Company

# Authority 480 SC

Registration No.  
12-C-143-9

TRB Cert No. 13-15-C-63



HARMFUL IF SWALLOWED

Net contents:

**5** LITRES

**Composition:**

	mass / volume
Sulfentrazone.....	480 g/l
inert ingredients .....	520 g/l

Chemical Group: **Triazolinone**

**A PRE EMERGENCE HERBICIDE FOR THE CONTROL OF CERTAIN BROAD LEAF WEEDS AND YELLOW AND PURPLE NUTSEDEGE IN SOYABEANS, SUGARCANE AND FLUE CURED TOBACCO.**

**Registered by:**

Pivotal Agro-Services (Pvt) Ltd.  
Agriculture House, Adylinn Road, Marlborough  
P.O. Box UA 414 Union Ave, Harare,  
Telephone (263-4) 309800 to 309818, Fax 309849



**Manufactured by**

FMC Corporation, Wyoming, USA

**Batch No.:**

**Date of Manufacture:**

**Expiry Date:**

8108xxxxZW1044





**TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.**

**PRECAUTIONS:**

1. Handle with care - avoid contact with liquid concentrate.
2. Mildly irritating to eyes. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing (i.e. goggles, face shield, overalls, gloves etc.) when using and/or handling this product.
3. Poisonous if swallowed, inhaled or absorbed through the skin.
4. KEEP OUT OF REACH OF CHILDREN.
5. KEEP APART FROM FOOD AND FOOD STUFFS.
6. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.
7. Wash exposed parts of the body with soap and water after use and before eating, drinking or smoking.
8. DO NOT CONTAMINATE PONDS, WATERWAYS AND DRAINS BY STORAGE OR DISPOSAL.
9. May be dangerous to wild animals, birds, fish and bees.
10. Store in original container in a cool dry place, tightly closed. KEEP UNDER LOCK AND KEY.
11. Clean applicator after use. Dispose of the washing water in a safe manner.
12. Triple rinse empty container and add the rinsate to the spray tank. Destroy the empty container by perforating or crushing and incinerate in a safe manner. DO NOT re use for any other purpose.

**FIRST AID:**

If swallowed	Drink two glasses of water. Do not induce vomiting. Get medical attention immediately.
If in eyes:	Flush eyes with large amounts of water. Get medical attention if irritation occurs.
If on skin	Wash skin with plenty of soap and water. Get medical attention if irritation occurs.
If inhaled	Remove subject to fresh air. Get medical attention if breathing is difficult.

**SYMPTOMS OF POISONING:** causes moderate eye and/or skin irritation.

**NOTE TO PHYSICIAN:** This product has low oral, dermal and inhalation toxicity. Contains toluene that can cause severe pneumonia if aspirated during vomiting. Consideration should be given to gastric lavage with an endotracheal tube in place. No known antidote. Treat symptomatically.





## ENVIRONMENTAL HAZARDS

This product is toxic to some aquatic invertebrates. DO not apply directly on areas with surface water. Drift and run off may be hazardous to terrestrial and aquatic plants.

**GROUND WATER:** This product is known to leach through soil into ground water under certain conditions as a result of label recommended usage. Use of this product where soils are permeable particularly where the water table is shallow, may result in ground water contamination. Do not use on coarse soil classified as sandy with less than 1% organic matter.

**SURFACE WATER:** Sulfentrazone can contaminate surface water through spray drift. Under some conditions, Sulfentrazone can have a high potential of run off into surface water for several months after application. These include poorly draining soils or wet soils with visible slopes towards adjacent water bodies, frequently flooded areas, areas with very shallow water tables, areas within field canals that drain surface water etc.

## WARRANTY:

**This product and the recommendations concerning its use should give excellent results, but since the performance and effectiveness of chemicals can be greatly influenced by factors outside the manufacturer's control, the manufacturer and seller give no guarantee or warranty, expressed or implied, concerning the use and/or storage of this product and they assume no responsibility or liability of any nature whatsoever for any damage or injury or financial loss arising from the use thereof.**

## DIRECTION FOR USE: USE ONLY AS DIRECTED

AUTHORITY 480 SC should be applied uniformly over a good tilth before any weeds emerge using a sprayer with a flat fan **nozzles** in 200 litres of water per hectare. Rainfall (or irrigation) of at least 25mm is required to activate the herbicide. Avoid spray drift on to adjacent crops.

## APPLICATION RATES

### TOBACCO

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- Use only strong, well-grown, well- hardened seedlings and deep setting of the transplants.
- Ensure that the AUTHORITY 480SC is applied onto a well tilled, firm, and level bed free of depressions around the plant stations.





- Conditions that weaken transplants i.e. unfavourable soil pH, poor agronomic practices, excessive moisture, drought, disease will make the transplants more susceptible to herbicide damage.
- AUTHORITY 480SC should be applied within 4 days of transplanting onto a good weed-free tith.
- Nozzles should be mounted over the inter row and direct the spray to include the top of the ridge and the base of the plants on either side so as to avoid contact with the growing point (heart) of the tobacco plants.
- Do not exceed 1.5 bars of spray pressure over tobacco
- Do not incorporate the AUTHORITY 480SC deeper than 5cms in to the soil solution either by irrigation or mechanical means. Do not apply more than 25 mm of irrigation within the first week of application.
- Do not perform tillage operations that can concentrate AUTHORITY 480SC into the bed as crop injury may result.
- Temporary stunting of the tobacco may occur if the seedlings are set too shallowly, or if heavy rain or too much irrigation immediately follows planting.
- Splashing of treated soil onto the tobacco leaves may cause localized but transitory necrosis.

<b>% Clay</b>	<b>Application rate L/ha</b>
0-20%	425 - 470 ml/ha
More than 20%	520 - 550 ml/ha

### **SOYABEANS**

Ensure the soyabean seed is planted at least 3.5-4cm deep and avoid leaving furrows in the row after planting. Apply AUTHORITY 480SC after planting before the soyabeans and the weeds germinate

<b>% Clay</b>	<b>Application rate ml/ha</b>
0-15	Not recommended
15-35%	700 ml/ha
>35%	780 ml/ha





The performance of AUTHORITY480 SC may be affected by factors such as pH, soil moisture, soil texture and weed species.

### SUGARCANE

Apply AUTHORITY 480SC as an overall spray in plant cane and as a directed inter row spray in ratoon cane directly after planting or cutting and before emergence of newly planted or ratoon sugarcane.

Apply the recommended rate of AUTHORITY 480SC evenly as an overall application in sufficient water (200-400 l water/ha) to ensure adequate coverage of the soil surface.

AUTHORITY 480SC when applied as post emergent in combination with a suitable surfactant/wetter (non-ionic; mineral oil; organosilicone) will control yellow nut sedge (*Cyperus esculentus*) from the 6 - 8 leaf growth stage.

	<b>Coarse soils</b>	<b>Medium soils</b>	<b>Fine soils</b>
	Sand, Loamy sand, Sandy loam	Sandy clay loam, Silt loam; Sandy clay; Silt	Silty clay loam, Silty clay, Clay loam, Clay
Pre-emergence	Not recommended	1.25 to 1.9 L/ha	1.5 to 1.9 L/ha
Pre- to early Post-emergence	Not recommended	1.25 L + An appropriate post emergent herbicide, in order to achieve knockdown of emerged weeds and residual control  (Nut sedge must be 1 – 4 leaves, grasses 1 – 2 leaves and broadleaves 0 to 30mm.)	
Late Post-emergence	0.55 L/ha + surfactant or 0.55 L/ha + a grass herbicide partner		

**MODE OF ACTION:** AUTHORITY 480 SC is taken up by the roots and leaves, but it is mainly absorbed by the roots.

### MIXING INSTRUCTIONS

Fill the spray tank half to three-quarters full with clean water and add the required amount of AUTHORITY 480SC to the spray tank while agitating. Fill the remainder of the tank with clean water. Continue agitating to keep the product in suspension. Ensure AUTHORITY 480SC is thoroughly mixed before adding any other compatible product. Do not keep the spray mixture for extended periods.





### COMPATIBILITY

AUTHORITY 480 SC may be tank mixed with a registered pre-emergence grass control herbicide such as COMMAND and FRONTIER OPTIMA. It is however always recommended that the compatibility of AUTHORITY 480 SC with other herbicides has to be tested on a small scale, before used in spray mixtures.

### CLEANING OF SPRAY TANK

Drain the tank completely of any spray mixture and flush with clean water plus ammonia. Then remove the nozzles and sieves and clean separately in a bucket.

### ROTATIONAL CROPS

The following periods should be observed after the application of Authority.

CROP	MONTHS AFTER APPLICATION OF AUTHORITY 480 SC
Barley, Wheat	5 MONTHS
Maize, Rice, Sorghum,	10 MONTHS
Dry Beans, Ground nuts, Other cereals	12 MONTHS
Cotton, Sweet Corn.	18 MONTHS

### WEEDS CONTROLLED BY AUTHORITY 480SC

SEDGES	BROADLEAF WEEDS	GRASSES
<i>Cyperus esculentus</i> <i>Cyperus rotundus</i>	<i>Acanthospermum hispidum</i> <i>Ageratum conyzoides</i> <i>Amaranthus spp.</i> <i>Chenopodium album</i> <i>Commelina benghalensis</i> <i>Galinsoga parviflora</i> <i>Nicandra physaloides</i> <i>Physalis angulata</i> <i>Richardia scabra</i> <i>Tagetes minuta</i> <i>Datura spp.</i>	Control of grasses of variable to poor





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