

尺寸: W210\*H285mm(客户指定)

数量: 1500张 (双面彩色印刷, 折页, 套挂袋)

制作时间: 2021/07/21/Y



**FLUMO 480 SC**  
HERBICIDE

**A suspension concentrate herbicide for the control of broadleaf and annual grass weeds in the crops as indicated.**

**HRAC HERBICIDE GROUP CODE E**  
**Active Ingredient**

Flumioxazin (N-phenylimide)	480 g/t
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Reg. no: L10926 Act no. 36 / 1947

**REGISTRATION HOLDER:**  
DVA Chemicals South Africa (Pty) Ltd  
Reg. no. 2006/000931/07  
Unit 2D, Block D  
Carpe Diem Building  
26 Quantum street  
Techno Park  
Stellenbosch, 7600  
South Africa

**WARNINGS**

- Under certain climatic conditions, FLUMO 480 SC may damage groundnuts or soya beans to the extent that yield and quality may be negatively affected. These conditions have been identified as wet and overcast weather, possibly involving low temperatures as well. However, the exact parameters where damage occurs cannot be accurately determined except that damage is probable in fields with less than 10% clay content, in the germination zone, if heavy rain falls after application. These conditions may vary from farm to farm, year to year and even from land to land. **The user is therefore warned that he accepts a certain amount of risk by using this product.**
- Handle with care. Harmful if swallowed.
- May irritate eyes and skin.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool place, away from food, feeds, seed and other agricultural chemicals. Toxic to fish and other aquatic organisms.

**Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of weeds against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.**

**PRECAUTIONS**

- Wear rubber gloves and face shield protection when handling the concentrate.
- Avoid inhalation of dust or spray mist. Avoid contact with skin, eyes and clothing. In case of contamination, flush immediately with water.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face and change of clothing. Avoid drift onto other crops, desirable vegetation and areas not under treatment, including row and tree crops listed on this label on land adjacent to land being treated pre-emergence.
- Immediately after FLUMO 480 SC application, the spray equipment must be cleaned thoroughly to prevent contamination of subsequent applications, using the following method:  
i. Drain tank completely then flush tank, boom and hoses with clean water. Drain again.  
ii. Fill the tank with clean water and add household ammonia (contains 3% active) at the rate of 1 litre every 100 litre water. Circulate the ammonia solution in the tank, boom and hoses for at least 15 minutes.  
iii. To remove traces of ammonia, rinse the tank with clean water and flush through booms and hoses.  
iv. Repeat steps (ii) and (iii).  
v. Nozzles and filters must be removed and cleaned separately with ammonia solution at the same concentration as above.  
vi. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- Do not spray, drain or flush equipment on or near desirable trees or plants or where their roots may extend. Water used for cleaning must not be allowed to contaminate untreated areas.
- Destroy empty container and never use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**RESISTANCE WARNING**

FLUMO 480 SC is a group code E herbicide. Any weed population may contain plants naturally resistant to FLUMO 480 SC and other group code E herbicides. The resistant plants can eventually dominate the plant population if these herbicides are used repeatedly. These resistant plants may not be controlled by FLUMO 480 SC or any other group code E herbicides.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicides group code. Alternate or tank mix with products from different herbicide group codes.
- Integrate the control methods (chemical, cultural, biological) into control programmes.

For specific information on resistance management contact the registration holder of this product.

**GENERAL PRODUCT INFORMATION:**

- FLUMO 480 SC is a pre-emergence herbicide and will only control weeds that have not germinated at the time of application. Thus, if existing weeds are present at time of application, these may have a detrimental effect on the efficacy of FLUMO 480 SC.
- FLUMO 480 SC is activated by moisture and optimal weed control is achieved when applied to a moist soil on a fresh seedbed, followed by +15 mm rainfall irrigation within one week of application. However, note that flood irrigation can result in reduced weed control.

**USE RESTRICTIONS**

- Follow-up crops: To avoid injury to follow-up crops, the following waiting periods should be heeded:  
• Groundnuts and soybeans – 2 weeks  
• All other crops – 4 months (a test planting is recommended).
- DO NOT EXCEED** the specified dosage rates of any of the products **FLUMO 480 SC**, Alachlor 384 EC or Palladium 960 EC as crop injury may result – ensure STRICT ADHERENCE to the specified rates.
- Do not apply FLUMO 480 SC to poorly drained soils with a compaction layer. Water logging in the presence of herbicides may lead to yield reduction due to stand reduction and/or stunted growth.
- FLUMO 480 SC may not be applied through any type of irrigation system.

**GROUNDNUTS AND SOYA BEANS:**

- All the use restrictions under "general" are applicable to groundnuts and soybeans as well. The optimum planting depth should be observed for the crop as recommended by ARC- Grain Crops Institute.
- Groundnuts: 50 – 75mm (depending on seedbed and soil conditions)
- Soya beans: 20 – 60mm (depending on seedbed and soil conditions)
- On lands subject to wind erosion, two situations may occur:  
• Poor weed control due to wind transfer of the herbicide.  
• Wind damage/weakening of seedlings making them more susceptible to herbicide damage.
- DO NOT apply FLUMO 480 SC to any groundnut or soybean crop if atrazine or other triazine herbicides were applied to a preceding crop, unless not more than 750 g a.i. triazine/ha was applied and a period of 9 months or longer has passed since the triazine application.
- Apply FLUMO 480 SC pre-emergence on groundnuts or soya beans either 14 days prior to planting or at planting, or immediately after planting.
- Do not apply FLUMO 480 SC later than 48 hours after planting the crop to be treated.
- Only use high quality, fresh (preceding season) fungicide treated, certified seed with good viability.
- Observe standard ARC-Grain Crops Institute recommendations for fungicide seed treatment and trace element additions e.g. molybdenum.
- The occurrence of seedling diseases leads to germination and seedling vitality losses which will be aggravated by herbicide(s).
- Any of the above factors listed or combinations thereof, will increase the risk of damage caused by the herbicide(s).

**DECIDUOUS FRUIT, CITRUS AND VINES**

- FLUMO 480 SC is a PPO herbicide. These herbicides destroy the chlorophyll of plants in the presence of sunlight. Spraydrift due to wind, air currents or incorrect spraying equipment etc. coming into contact with green chlorophyll containing plant tissue will result in herbicide damage. It is therefore necessary to ensure that FLUMO 480 SC containing spray mixture should not come into contact with chlorophyll containing plant tissue on the deciduous fruit or citrus trees, (vines\*) or adjacent non-target crops.
- It is the responsibility of the applicator to ensure that the spray does not come into contact with non-target plant tissue.
- Spraying equipment used for the application of FLUMO 480 SC may not be used for any foliar applications, as damage may occur to foliage or fruit.
- Spraying equipment should be thoroughly cleaned after use as described under PRECAUTIONS.
- FLUMO 480 SC shall only be applied to vines, deciduous or citrus trees as a pre-blossom application, due to the inability of applicators to prevent drift.

**DIRECTIONS FOR USE: Use only as directed**

**COMPATIBILITY:**

FLUMO 480 SC is compatible with alachlor 384, glyphosate 360 SL and paraquat 200 SL. Since the formulation of these products may change without the knowledge of DVA SOUTH AFRICA (PTY) LIMITED and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

**MIXING INSTRUCTIONS**

- FLUMO 480 SC herbicide is a 48 % soluble concentrate
- Half-fill the spray tank with clean water. Under constant agitation add the required amount of FLUMO 480 SC by adding the required ml into the spray tank and then add the rest of the water. Keep the chemical in suspension by means of agitation.
- When tank-mixing FLUMO 480 SC with another herbicide, read the label of the complementary herbicide and adhere closely to the manufacturer's recommendations. Half- fill the spray tank with clean water and under constant agitation first add the required amount of FLUMO 480 SC. Continue filling the spray tank with water and add the required amount of complementary herbicide just before the tank is filled to its full level. Keep the chemicals in continuous suspension by maintaining continuous agitation. Tank mixtures must be sprayed out immediately and should not be allowed to stand in the spray tank overnight. After the spraying operation, flush out spraying equipment thoroughly.

**APPLICATION**

- Spray equipment must be accurately calibrated prior to and during application of FLUMO 480 SC.
- Good results are obtained using flat-fan spray nozzles to ensure even spray distribution. However, where there is a danger of microdroplets drifting onto susceptible plant tissue air-mix no-drift type nozzles or equivalent shall be used. FLUMO 480 SC is activated by moisture and best weed control is achieved when applied to a moist soil on a fresh seedbed, followed by + 15 mm rainfall or irrigation within one week of application. Note that flood irrigation can result in reduced weed control efficacy

**Groundnuts and Soya beans:**

- FLUMO 480 SC or FLUMO 480 SC plus glyphosate 360 SL can be applied 14 days before the intended planting date. Alternatively, FLUMO 480 SC can be applied on its own, or in a tank mixture with alachlor 384 EC at planting or within 48 hours of planting. Use 200 – 300L/ha total spray volume for overall ground application.
- For banded applications of FLUMO 480 SC use proportionately less product per hectare for the band versus a broadcast application.
- The best results will be obtained if FLUMO 480 SC P is applied onto an even, well-prepared seedbed which is free of clods, trash and weeds.
- If dry weather conditions should prevail for a period of 7 – 10 days after application, weeds may germinate and develop. If this happens, use shallow cultivation with a rotary harrow to control these weeds and to mix the herbicide with the top 10 – 20 mm of soil. Deeper cultivation should be avoided as untreated soil may be brought to the surface and reduced efficacy of FLUMO 480 SC could result.

**Deciduous fruit vines and citrus (forestry)\*:**

- If existing weeds are present, these may have a detrimental effect on the efficacy of FLUMO 480 SC.
- FLUMO 480 SC is a pre-emergence herbicide and will only control weeds that have not germinated at the time of application. If applied to germinated weeds, a tank mixture with paraquat 200 SL or glyphosate 360 SL should be used, or the site should be cleared using chemical or mechanical means which is free of clods, trash and weeds.
- When applied to deciduous fruit, citrus and vines, FLUMO 480 SC P should be applied as a directed spray, and avoid contact of the spray mixture with the foliage or fruit of the crop. **Please refer to "USE RESTRICTIONS" and "APPLICATION" for full particulars.** Prevent overlapping of the spray swaths. Apply in 200 – 400L water/ha.

Batch No. Z21072551671  
Date of manufacture: 25/07/2021



CROP	% CLAY	DOSAGE/ha	REMARKS
Groundnuts	0 – >30	104 ml FLUMO 480 SC OR 104 ml FLUMO 480 SC + 1.0 – 3.0 glyphosate 360SL	Apply 14 days prior to the intended date of planting. See USE RESTRICTIONS
	11 – >30	104 ml FLUMO 480 SC OR 70 – 80 g FLUMO 480 SC + 3.0f alachlor 384 EC	Apply at planting, or within 48 hours of planting. See USE RESTRICTIONS.
Soya beans	0 – >30	104 ml FLUMO 480 SC OR 104 ml FLUMO 480 SC + 1.0 – 3.0f glyphosate 360SL	Apply 14 days prior to the intended date of planting. See USE RESTRICTIONS
	11 – 20	104 ml FLUMO 480 SC + 4.0 – 4.5f alachlor 384 EC	Apply at planting, or within 48 hours of planting.
	21 – 30	104 ml FLUMO 480 SC + 4.5 – 5f alachlor 384 EC	Apply at planting, or within 48 hours of planting. See USE RESTRICTIONS
>31	104 ml FLUMO 480 SC + 5f alachlor 384 EC		

**IMPORTANT NOTES**

- WARNING:** Wet conditions (more than 20mm rain) especially when combined with cold (less than 10°C at night) and sandy soils and/or overcast weather within four weeks after planting can cause crop injury, particularly on groundnuts. Refer to first paragraph under "WARNINGS".
- DO NOT EXCEED** the above specified dosage rates of any of the products **FLUMO 480 SC**, or **ALACHLOR 384 EC** as crop injury may result – ensure **STRICT ADHERENCE** to the specified rates.
- Before using **FLUMO 480 SC** in combination with other herbicides, read the labels concerned and adhere to the label recommendations, warnings and use restrictions.
- Do not fail to adhere to the warnings listed under "use restrictions" on this label.
- Seed size : Smaller groundnut seed may be more susceptible to herbicide damage than larger seeds.
- FLUMO 480 SC** may be applied 14 days prior to planting. By doing this, the risk of crop injury will be reduced but the residual efficacy of the **FLUMO 480 SC** and the control of weeds in the planting row may be compromised. Existing weeds can be controlled by adding 1.0 – 3.0 of glyphosate 360 SL to the **FLUMO 480 SC**.

The alachlor 384EC or **FLUMO 480 SC** tank mix with alachlor must be applied at planting or within 48 hours of planting.

CROP	DOSAGE/ha	REMARKS
Apples, Pears, Peaches, Nectarines, Plums and Citrus and vines	416 ml FLUMO 480 SC	Repeat the application when necessary, but refer to "USE RESTRICTIONS" and "APPLICATION" for full particulars.

**IMPORTANT:**

- If applied to existing weeds, 1.5 – 5.0f paraquat 200 SL or 1.0 – 3.0f glyphosate 360 SL must either be added to the **FLUMO 480 SC** or the area to be treated should be cleared of weeds by chemical or mechanical means prior to the application of **FLUMO 480 SC**
- FLUMO 480 SC** may be used on non-bearing citrus and fruit trees younger than 3 years, but not on vines younger than 3 years.

*Afforestation	DOSAGE/ha	Pre-plant treatment:
Pine ( <i>Pinus patula</i> ) Wattle ( <i>Acacia meurnsii</i> ) Bluegum ( <i>Eucalyptus grandis</i> )	208 ml FLUMO 480 SC	Apply in at least 250f water / ha., and apply prior to the transplant of the seedlings. To ensure optimum weed control minimal disturbance of the soil during the transplant is essential.

**IMPORTANT:**

- If applied to existing weeds, 1.5 – 5.0f paraquat 200 SL or 1.0 – 3.0f glyphosate 360 SL must either be added to the **FLUMO 480 SC** or the area to be treated should be cleared of weeds by chemical or mechanical means prior to the application of **FLUMO 480 SC**
- Do not apply **FLUMO 480 SC** to trees grown on any growth medium but soil.

Pine ( <i>Pinus patula</i> ) Bluegum ( <i>Eucalyptus grandis</i> )	DOSAGE/ha	Post transplant of seedlings:
	208 ml FLUMO 480 SC	Apply in at least 250f water/ha. <b>FLUMO 480 SC</b> may be applied over the top of the seedlings.

**IMPORTANT:**

- When **FLUMO 480 SC** is applied over the top of the seedlings, slight scorching of the leaves or needles may occur. This is of a transient nature and is soon outgrown.
- Seedlings must be of good quality, and free of disease and insect damage.
- Blue gums affected with botritis may be severely scorched, or even killed. Do not apply to trees which were grown on any other growth medium than soil.

WEEDS NORMALLY CONTROLLED WITH 104 ml FLUMO 480 SC /ha	
<b>Broadleaved weeds:</b>	
<i>Ageratum conyzoides</i> <i>Amaranthus hybridus</i> <i>Canya bonariensis</i> <i>Crotalaria sphaerocarpa</i> <i>Eradium moschatum</i> <i>Fumaria officinalis</i> <i>Isomoea purpurea</i> <i>Oenothera stricta</i> <i>Oxalis latifolia</i> <i>Raphanus raphanistrum</i> <i>Richardia braziliensis</i> <i>Schkurbia pinnata</i> <i>Tribulus terrestris</i>	Blity goat weed Common pigweed Flat leaf fleabane Mealie crotalaria Musk heron s bill Common fumitory Morning glory Yellow evening primrose Red garden sorrel Wild radish Tropical richardia Dwarf marigold Devil s thorn
<b>Weeds controlled variably:</b>	
<i>Datura ferox</i> <i>Tagetes minuta</i> <i>Bidens pilosa</i>	Large thorn apple Khaki weed Common blackjack

WEEDS NORMALLY CONTROLLED WITH 104 to 208 ml FLUMO 480 SC per hectare:	
<b>Weeds listed above PLUS:</b>	
<i>Acalypha ecklonii</i> <i>Ceniza turbinata</i> <i>Fumaria muralis</i> <i>Hydrocotyle americana</i> <i>Oenothera rosea</i> <i>Plantago lanceolata</i> <i>Portulaca oleracea</i> <i>Setaria verticillata</i> <i>Sonchus oleraceus</i>	False nettle-brush Goose daisy Fumitory Navelwort Rose evening primrose Narrow-leaved ribwort Purslane Sticky bristle grass Sow thistle
<b>Weeds controlled variably:</b>	
<i>Bidens pilosa</i> <i>Chenopodium album</i> <i>Suaeda floribunda</i> <i>Euphorbia helioscopia</i> <i>Polygonum aviculare</i> <i>Tagetes minuta</i>	Common blackjack White goose foot Feabane Umbrella milkweed Prostrate knotweed Khakiweed

WEEDS NORMALLY CONTROLLED IN GROUNDNUTS AND SOYBEANS WITH A TANK MIXTURE OF 104 ml FLUMO 480 SC per hectare PLUS Alachlor 384 EC:	
<b>Annual grasses:</b>	
<i>Eleusine indica</i>	Goose grass
<b>Broadleaved weeds:</b>	
<i>Amaranthus hybridus</i> <i>Chenopodium album</i> <i>Chenopodium carinatum</i> <i>Crotalaria sphaerocarpa</i> <i>Schkurbia pinnata</i> <i>Tribulus terrestris</i>	Common pigweed White goosefoot Green goosefoot Mealie Crotalaria Dwarf marigold Devil's thorn
<b>Weeds controlled variably:</b>	
<i>Datura ferox</i> <i>Tagetes minuta</i>	Large thorn apple Khakiweed

WEEDS NORMALLY CONTROLLED IN SOYBEANS WITH A TANK MIXTURE OF 104 ml FLUMO 480 SC per hectare PLUS Alachlor 384 EC	
<b>Annual grasses:</b>	
<i>Brachiaria eruciformis</i> <i>Chloris virgate</i> <i>Digitaria sanguinalis</i> <i>Echinochloa crusgalli</i> <i>Eleusine indica</i> <i>Panicum maximum</i> <i>Panicum schinzii</i> <i>Setaria pallida-Fusca</i> <i>Setaria verticillata</i> <i>Tragus racemosus</i> <i>Urochloa panicoides</i>	Sweet signal grass Feather-top Chloris Crab finger grass Barnyard grass Goose grass Common buffalo grass Sweet buffalo grass Red bristle grass Sticky bristle grass Large carrotseed grass Herringbone grass
<b>Broadleaved weeds:</b>	
<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Amaranthus thunbergii</i> <i>Chenopodium album</i> <i>Chenopodium carinatum</i> <i>Cleome menophylla</i> <i>Crotalaria sphaerocarpa</i> <i>Flaveria bidentis</i> <i>Portulaca oleraceae</i> <i>Schkurbia pinnata</i> <i>Tribulus terrestris</i>	Perennial pigweed Common pigweed Thorny pigweed Red pigweed White goosefoot Green goosefoot Spindiepod Mealie Crotalaria Smelter's bush Purslane Dwarf marigold Devil's thorn
<b>Weeds controlled variably:</b>	
<i>Anthemis catula</i> <i>Bidens pilosa</i> <i>Commelina benghalensis</i> <i>Cosmos bipinnatus</i> <i>Datura ferox</i> <i>Datura stamonium</i> <i>Stellaria media</i> <i>Tagetes minuta</i> <i>Xanthium strumarium</i>	Stink mayweed Common blackjack Bengal wandering jew Cosmos Large thorn apple Common thorn apple Chickweed Khakiweed Cocklebur

Since **FLUMO 480 SC** controls annual broadleaved weeds, other broadleaved weeds that are not listed may be controlled to a greater or lesser degree. The registration holder does not accept any liability in respect of the control of unlisted weeds.



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