

RAPSAN 500 SC

A herbicide for broadleaved weed control and some grass weed control.
A suspension concentrate (SC) containing 500 g/L (43.8% w/w) metazachlor.

WARNING



RISK AND SAFETY INFORMATION

May cause an allergic skin reaction

Suspected of causing cancer

Very toxic to aquatic life with long lasting effects

Obtain special instructions before use

Avoid breathing fumes or spray

Avoid release to the environment

Wear protective gloves, face protection, protective clothing, eye protection

If exposed or concerned: Get medical advice/attention

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

To avoid risks to human health and the environment, comply with the instructions for use.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water /

Avoid contamination via drains from farmyards and roads)

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

PCS no. 05886

IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Max. individual dose	Max. total dose	Latest time of application
Oilseed rape (winter)	1.5 L/ha	1.5 L/ha	Before 10th True leaf stage (GS 19)
Oilseed rape (spring)			
Swede (field)	1.5 L/ha	1.5 L/ha	Pre-emergence
Turnip (field)			
Cabbage (field)	1.5 L/ha	1.5 L/ha	Post-emergence GS16-18 or 7-14 days after planting
Cauliflower (field)			
Brussels sprout (field)			
Broccoli (field)	1.0 L/ha	1.0 L/ha	Post-emergence GS16-18 or 6-8 days after planting
Calabrese (field)			

Other specific restrictions:

Applications shall be limited to a total dose of not more than 1.0 kg metazachlor/ha in a three year period on the same field.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE.



FOR PROFESSIONAL USE ONLY

For 24 hour emergency information contact Globachem n.v.

Telephone: +32 11 78 57 17

PROTECT FROM FROST
SHAKE WELL BEFORE USE

Contents: 5 lit. e

Registration holder:


Globachem
Your Green Choice

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Batch No: see packaging

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SAFETY PRECAUTIONS

Operator protection

The minimum level of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

Operators must wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate or applying by hand.

Operators must wear suitable protective gloves when handling contaminated surfaces.

WASH HANDS, EAT, DRINK, OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice immediately (show the product label). Do not induce vomiting. WASH SKIN AND EXPOSED SKIN before eating, drinking or

Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies. Do NOT SPILL WATER with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Storage and disposal

DO NOT DRINK, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF REACH OF CHILDREN.

Store in a cool, dry place, tightly closed. In a safe place. RINSE CONTAINER THOROUGHLY using an integrated pressure rinsing device or manually rinsing three times. Add washings to the drain.

DO NOT RE-USE CONTAINER for any purpose.

DEFLECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. In this section must be read carefully in order to obtain safe and successful use of this product.

Restrictions and warnings

Restrictions: RAPSAN 500 SC is suitable for use on all soil types as defined in the Soil Texture (85) System, except sands and very light soils and soils containing more than 10% stones. Seedbed conditions are not useful weed control can be obtained on soils with an organic matter higher than 10% but may decrease as the percentage of organic

With drilled crops, when applying RAPSAN 500 SC pre-

emergence it is important to credit correctly to ensure physical removal of weeds from the seedbed. This is achieved by ensuring that the seed is well covered with soil, to a depth of 15 mm. It is recommended to plant the seed as soon as possible after spraying RAPSAN 500 SC. Ensure that transplants are correctly planted with the roots well covered. Loose and fluffy soil must be consolidated before treatment.

Warnings

1. A reduction in crop vigour, weed control and possibly plant stand may occur with excessive rainfall shortly after application. A heavy rain shower will wash the herbicide off the seedbed and reduce its effectiveness. Where a crop check has occurred this usually grows out after a few weeks and no further treatments are normally required.

2. Do not apply RAPSAN 500 SC to soils with a compaction layer or to poorly drained soils since damage can occur under waterlogged conditions.

3. If RAPSAN 500 SC is applied onto a dry soil surface it will only be effective if there is a good rainfall of at least 100 Lha within 48 hours of irrigating. Where a crop check has occurred this usually grows out after a few weeks and no further treatments are normally required.

4. Do not apply RAPSAN 500 SC to crops which may cause some reduction in crop vigour and/or plant stand due to the chemical moving down to the rooting zone too rapidly, such as the headlands, ridges and furrows.

5. Do not treat crops, which are suffering from wilting, pests or diseases.

6. When used alone RAPSAN 500 SC has very little delaying activity. However, under frosty conditions a transient starch accumulation occurs and this can last for up to 3 days in tank mixture under frosty conditions.

Important notes

1. Avoid spray drift on to neighbouring crops.

3. WASH EQUIPMENT thoroughly immediately after use. Fill the tank with clean water and leave overnight. Spray out before storage or use other products. Failure to do so may cause damage to susceptible crops sprayed later.

Weeds controlled

RAPSAN 500 SC is a residual herbicide which can be used in all varieties of winter and spring sown oilseed rape, swedes, turnips, cabbages, Brussels sprouts, cauliflowers, broccoli and calabrese. Herbicidal activity is dependent upon root uptake.

Common name	Pre-emergence 1.5 l/ha
Common chickweed	
Coldenia	MR
Cut-leaved cranesbill	MR
Red dead-nettle	S
Field forget-me-not	S
Common horsetail	S
Groundsel	S
Knotgrass	R
Knaweed	S
Annual meadow-grass	S
Feld pansy	R
Parley pier	S
Field pennycress	R
Common poppy	MS

Weed name Pre-emergence 1.5 l/ha

Shepherd's purse S

Speedwell S

MS Moderately susceptible

R Resistant

Crop specific information

Winter oilseed rape

RAPSAN 500 SC may be applied pre-emergence or post-emergence, depending on soil type, the seedbed conditions and weed spectrum.

Pre-emergence use

On moist, light or very heavy soils where seedbeds are moist, firm and free from clods, RAPSAN 500 SC should be applied from drilling up until the crop seed chits. In warm soils, this may occur within 48 hours of drilling. DO NOT TREAT if there is no emergence recommendation when any of the following conditions apply:

- Heavy rainfall is forecast.
- Dry soil conditions.
- Do not use on broadcast or late drilled crops.
- Soils i.e. stones, flint, chalk, readily visible on the soil surface.

Early post-emergence use

RAPSAN 500 SC should be applied on light or medium heavy soils pre-emergence, once the majority of the crop has reached the fully expanded leaf stage. This is the earliest time when the crop reaches maximum susceptible growth stage (see weed susceptibility section and note moisture requirement).

Post-emergence use: RAPSAN 500 SC is recommended if:

- Seedbed conditions are not ideal for the pre-emergence use.
- RAPSAN 500 SC could not be applied before the crop seed chits.
- Light or medium heavy soils, particularly when the soil is dry or gravelly, are to be treated, particularly if heavy rainfall has been forecast for the period of drilling or sowing.

Rates of application for pre- or post-emergence

By tank mix with RAPSAN 500 SC per hectare, pre- or post-emergence.

Water volume

When applying RAPSAN 500 SC pre-emergence, use a minimum water volume of 220 litres per hectare.

RAPSAN 500 SC should be applied in smaller volumes of 100 litres per hectare when used pre-emergence, but should not be used on poor seedbeds nor in tank mixture with other products at this water volume. It is recommended to use a spray gun with flat fan nozzles designed to operate at normal pressure - 3 bar or low pressure can result in uneven spray distribution around 1 bar, producing a coarse spray, may be used.

Conditions

Ideal conditions are mild and moist when weeds are actively growing and before the crop starts to shield the weeds.

Driftage should be minimised when applying. Do not spray rain is expected within the following four hours, extreme windy conditions or if the foliage is frost covered.

Under dry conditions or in poor or non-competitive crops, weed control is likely to be less effective. When applied by a tractor or by grass-volunteers at application, control may be partially reduced in ryegrass. Where grass weeds or volunteers are likely to be a problem then they are best removed early with a grassicide.

Recommendation summary for winter oilseed rape

Pre-emergence	Post-emergence	
	Soil type	Seedbed condition
Rate: 1.5 L/ha	Early post-emergence	Later post-emergence for control of the major weeds
Broadcast	Do not use	Permitted
soil stage		
After drilling and prior to chitting of the crop or at normal time	After cultivation fully expanded leaves	From when most of the crop has 3 expanded leaves, up to the end of the maximum growth stage, certain weeds are becoming more difficult to control.
Drilling depth	15 mm	
Water volume	Use a min. of 100 L/ha. For tank mixtures at least 220 L/ha.	Before weeds reach maximum stage for control.
Soil type	Medium to heavy	Light to heavy.
Important notes	DO NOT USE on broadcast or late drilled crops, or stony soils.	Not critical provided the crop is well rooted and not stressed.

Special Notes

1. RAPSAN 500 SC will give moderate control of cleavers when applied pre-emergence. However, this may not be sufficient if the weeds have emerged at the time of application and adequate soil moisture is present.

2. Annual grass herbicides may follow a pre- or early post-emergence application of RAPSAN 500 SC, provided that the crop is undamaged and showing no adverse symptoms.

Swedes, turnips and spring oilseed rape

One application of 1.5 litres per hectare RAPSAN 500 SC is recommended. Apply RAPSAN 500 SC 220-450 litres of water per hectare. Use a minimum water volume when seedbeds are not slightly cloudy.

RAPSAN 500 SC should be applied after drilling or seedbeds that are firm, moist and free from clods before the crop seed chits. This may occur within 48 hours of drilling in warm soils. DO NOT treat if heavy rainfall is forecast. Treatment before emergence may reduce crop stand.

Additional information

Spring oilseed rape

One application of 1.5 litres per hectare RAPSAN 500 SC may be applied on the crop has two fully expanded cotyledons but before weeds emerge. Broadcast application of RAPSAN 500 SC post-emergence is not recommended timing for crops grown on light, fast, stony or gravelly soils. The latest time of application of RAPSAN 500 SC is before the crop has 10 true leaves.

Swedes and turnips

The latest time of application of RAPSAN 500 SC is pre-emergence in these crops.

Brassicas (Field)

To prolong weed control in cabbages, Brussels sprouts, cauliflower, etc., it is recommended to use a tank mix of RAPSAN 500 SC 220-450 litres of water per hectare before weeds emerge. Broadcast application of RAPSAN 500 SC post-emergence treatment. Apply RAPSAN 500 SC in 220-450 litres of water volume where seedbeds are not ideal (i.e. slightly cloudy).

The dose after planting differs according to the cabbage type:

- 1.5 l / ha. in cabbage, cauliflower and Brussels sprouts (7-14 days after sowing the seed stage).
- 1.1 l / ha. in broccoli and calabrese (6-8 days after planting or in the 6th leaf stage).

Max 1 application per crop.

Succulent crops

Winter oilseed rape must not be planted until six months after application of RAPSAN 500 SC.

1. Any crop can follow normally harvested winter oilseed rape treated with RAPSAN 500 SC and ploughing is not essential before sowing the following cereal crop.

2. In the event of a crop failing in the autumn or winter, then several crops may be sown within 6 months after the use of RAPSAN 500 SC again.

- Transplanted or direct drilled Brassicae

- Cereals (excluding Durum wheat)

- Field beans

- Maize

- Peas

- Potatoes

Mixing and spraying

MIXING: WELL BEFORE USE. Half fill the spray tank with clean water and start the agitation. Pour in the required amount of RAPSAN 500 SC and add the remainder of the water and continue agitation until spraying is completed.

Please empty container thoroughly, and add rinsings to the spray tank.

When tank mixes are to be used, each product should be added one at a time into the tank, taking due note of any instructions given as to the order of mixing.

Extreme care should be taken to avoid damage by drift onto plants outside the target area.

Compatibility: RAPSAN 500 SC is compatible with most of the common used agro-chemicals. To avoid all problems, we advise to do a small compatibility test. The following agro-chemicals are known to be incompatible with liquid fertilisers, cycloheximide + lambda-cyhalothrin and suspension fertilisers.

Herbicide resistance

RAPSAN 500 SC coincides with the same mode of action increase the risk of strains of weeds developing resistance to these compounds, leading to poor control. To minimise this a programme of crop rotation managing such weeds should be adopted. Use products with different modes of action and from different chemistries giving a good degree of control. Incorporate into the soil before sowing, rotate cropping rotation and cultivation techniques. In all cases the recommended rate of use should be adhered to. Follow WHAG guidelines.

Key elements of the resistance management strategy for RAPSAN 500 SC:

- Always follow WHAG guidelines for preventing and managing herbicide resistant weeds.
- Maximise the use of cultural control measures wherever possible.
- Do not use tank mixes or sequences of effective herbicides with different modes of action within individual crops, or successive crops.
- If resistance is suspected, always use RAPSAN 500 SC in sequence with other effective graminicides with different modes of action.

Monitor fields regularly and investigate the reasons for any poor control.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application, we shall not be liable for any damage or loss arising from any use of the goods. All goods supplied by us are sold subject to the general terms and conditions of sale, statutory, or otherwise, as to the quality or fitness for any particular purpose. We shall not be liable for any damage or loss arising from any use of the goods if the damage or loss is caused by us or by re-sellers for any failure in performance, damage or injury whatever arising from their storage, handling, application or use. These terms and conditions shall prevail over any conflict of law, whether or not they supervise or assist in the use of such goods.