



# Rapsan® Turbo



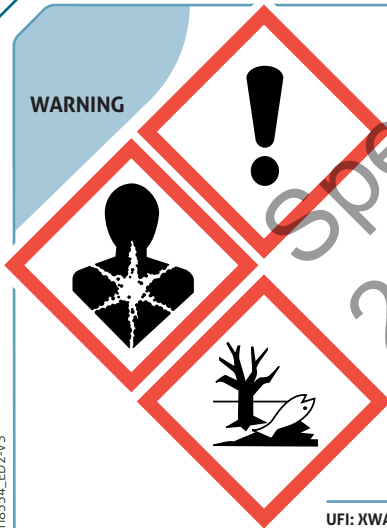
*A residual herbicide for the control of a range of broad leaved and grass weeds, including cleavers, in winter oilseed rape*



A suspension concentrate containing 125 g/L quinmerac and 375 g/L metazachlor.

**HERBICIDE**

**WARNING**



**RISK AND SAFETY INFORMATION**

May cause an allergic skin reaction.  
Suspected of causing cancer.  
Very toxic to aquatic life with long lasting effects.

Avoid breathing mist.  
Wear protective gloves/clothing.  
IF ON SKIN: Wash with soap and water.  
If exposed or concerned: Get medical advice/attention.  
Specific treatment (see first aid instructions on label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store locked up.  
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.  
Contains 2-methylisothiazol-3(2H)-one.  
May produce an allergic reaction.  
**To avoid risks to human health and the environment, comply with the instructions for use.**  
**To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.**

UFI: XWA0-E06H-T00H-UWU8 | PCS no. 06007

CONTENT: **5 lit.e**

DISTRIBUTOR: **DHM Agrochemicals**  
Castle Lodge, Kilgobbin Road,  
Dublin D18R2W1  
Telephone: (01)2952377  
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Your Crop Counts

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## **PRECAUTIONS**

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or when handling contaminated surfaces.

AVOID CONTACT WITH SKIN.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

KEEP LIVESTOCK out of treated areas until poisonous weeds, such as ragwort, have died and become unpalatable.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

For application using tractor mounted or trailed sprayer only.

Do not contaminate surface waters or ditches with chemical or used container. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).

## **STORAGE**

Store in a suitable pesticide store, keep dry and protect from frost.

## **DIRECTIONS FOR USE**

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

RAPSAN® TURBO is a residual herbicide that can be used on all varieties of winter-sown oilseed rape for the control of cleavers and a range of other broad-leaved and grass weeds.

### **1. RESTRICTIONS AND WARNINGS**

RAPSAN® TURBO 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% organic matter.

Seedbeds should be moist, firm and free from clods. Loose or puffy seedbeds must be consolidated before treatment. When RAPSAN® TURBO is applied pre-emergence, it is important for crop safety to ensure physical separation of the herbicide from the seed. This is achieved by ensuring that the seed is well covered with soil to a depth of 15 mm.

With direct drilled crops, harrow across the slits to cover the seed before spraying.

Do not use on broadcast crops until the crop has attained two fully expanded cotyledons.

On brashy and stony soils, RAPSAN® TURBO may cause some reduction in crop vigour and/or plant stand, due to the chemical moving down to the root zone too quickly.

Do not apply RAPSAN® TURBO to soils with a compaction layer or to poorly drained soils, since damage can occur under waterlogged conditions.

A reduction in crop vigour, weed control and possibly plant stand may occur if excessive rain falls shortly after application, particularly on the lighter soils. Where crop growth has been checked, this normally grows out after a few weeks and yields are normally unaffected.

Care should be taken to avoid overlap of spray swaths.

Do not treat crops which are suffering from wilting, pests or diseases. Under frosty conditions a transient scorch may occur.

Do not use RAPSAN® TURBO under frosty conditions in tank mixture with other products.

If RAPSAN® TURBO is applied onto a dry soil surface it will only be effective after rain has occurred.

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

To reduce the risk of movement of RAPSAN® TURBO to water:

- On clay soils, create a fine, consolidated seedbed to slow the downward movement of water.
- Do not apply RAPSAN® TURBO to dry soil. Moist soils have fewer and smaller cracks.
- Do not apply RAPSAN® TURBO if heavy rain is forecast, wait until after the event.

### **2. CROPS**

RAPSAN® TURBO can be used on all varieties of winter oilseed rape. RAPSAN® TURBO may be applied pre- or post- emergence of the crop but for maximum activity application must be pre-emergence of the weeds.

Pre crop emergence applications should be made before the crop seed chits, which in warm moist soils may occur within 48 hours of drilling. Seedbeds should be moist, firm and free from clods, but also see Restrictions/Warnings section. DO NOT USE PRE-EMERGENCE ON BROADCAST CROPS.

Post crop emergence applications can be made from when the majority of the crop has two fully expanded cotyledons until up to and including 8th true leaf stage (GS18). The soil should be moist at application, or rainfall must occur shortly after application, but also see Restrictions/Warnings section.

Soil moisture is required for effective weed control via root uptake. Residual control may be reduced under prolonged dry conditions. Weeds germinating from depth may not be controlled.

### 3. WEED CONTROL

Herbicidal activity is dependent upon root uptake.

#### 3.1 Susceptibility of weeds to a single application of RAPSAN® TURBO

	RAPSAN® TURBO 2.0 L/ha		
	Pre-emergence of weed	Post-emergence of weed	
	Rating	Rating	Maximum susceptible growth stage
Amaranth, Common	S	-	Pre-em
Annual Mercury	R	-	Pre-em
Black-grass	S	-	Pre-em
Chamomile, Corn	S	S	GS11
Chickweed, Common	S	S	GS11
Cleavers	S	S	GS12
Corn Spurrey	S	MS	GS12
Cornflower	R	-	Pre-em
Cranesbill, Cut-leaved	MR	-	Pre-em
Cranesbill, Round-leaved	R	-	Pre-em
Cranesbill, Small flowered	R	-	Pre-em
Dead-nettle, Hen-bit	S	S	GS12
Dead-nettle, Red	S	S	GS12
Fat Hen	MR	MR	GS11
Fool's Parsley	S	S	GS10
Forget-me-not, Field	S	-	Pre-em
Fumitory, Common	R	-	Pre-em
Groundsel, Common	S	-	Pre-em
Knotgrass	R	-	Pre-em
Loose Silky Bent	S	-	Pre-em
Mayweed, Scented	S	S	GS 14
Mayweed, Scentless	S	S	GS 14
Meadowgrass, Annual	S	-	Pre-em
Mustard, Hedge	R	-	Pre-em
Nettle, Small	S	-	Pre-em
Pansy, Field	R	-	Pre-em
Parsley Pieri	S	-	Pre-em
Penny-cress, Field	R	-	Pre-em
Poison Hemlock	S	S	GS11
Poppy, Common	S	S	GS12
Shepherd's-purse	S	S	GS10
Sowthistles	S#	-	Pre-em
Speedwell, Common field	S	S	GS12
Speedwell, Ivy-leaved	S	S	GS10
Speedwell, Procrumbent	S	-	Pre-em
Speedwell, Wall	S	-	Pre-em
Volunteer barley	R	-	Pre-em
Volunteer wheat	R	-	Pre-em

S = Susceptible;

MS = Moderately Susceptible;

Pre-em = Pre-emergence of weed;

MR = Moderately Resistant; R = Resistant;

# = From seed

- = No information

Strains of some annual grasses (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to herbicides, which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group (WRAG) and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Repeated use of herbicides with the same mode of action can increase the risk of strains of weeds developing resistance to these compounds, leading to poor control. In order to minimise the risk, a strategy for preventing and managing such resistance should be adopted. Use products with different modes of action and from different chemical groups in sequence or tank-mix, in conjunction with effective cropping rotation and cultivation techniques. In all cases the recommended rate of use should be adhered to. Follow WRAG guidelines.

Key elements of the resistance management strategy for RAPSAN® TURBO:

- Always follow HRAC&WRAG guidelines for preventing and managing herbicide resistant weeds.
- Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, stale seedbeds, delayed drilling, etc).
- Use tank mixes or sequences of effective herbicides with different modes of action within individual crops, or successive crops.
- For the control of herbicide resistant grass weeds, always use RAPSAN® TURBO in sequence with other effective graminicides with different modes of action.
- Monitor fields regularly and investigate the reasons for any poor control.

#### 4. MIXING

##### SHAKE WELL BEFORE USE.

Fill the spray tank three quarters full with water and start the agitation. To ensure thorough mixing of the product, invert the container several times before opening. Add the required quantity of RAPSAN® TURBO to the spray tank while re-circulating. Fill the tank with the remaining required amount of water and continue agitation until spraying is completed.

On emptying the product container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of container safely.

#### 5. APPLICATION

Apply 2.0 litres/hectare of RAPSAN® TURBO as a MEDIUM spray, as defined by BCPC. RAPSAN® TURBO should be applied in a recommended water volume of 200 litres/ hectare.

RAPSAN® TURBO may be applied at 2.0 l/ha in 100 litres of water per hectare although efficacy and crop safety at this reduced volume has not been evaluated.

Care should be taken to avoid overlap of spray swaths.

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

Wash sprayer thoroughly immediately after use, using clean water and following the guidance provided by the equipment manufacturer.

#### 6. FOLLOWING CROPS

Any crop may follow normally harvested winter and spring-sown oilseed rape treated with RAPSAN® TURBO.

##### **Re-drilling due to crop failure after autumn use**

If in the autumn circumstances lead to the failure of winter oilseed rape treated with RAPSAN® TURBO the following crops may be re-drilled:-

##### **Winter crops**

After ploughing to 20 cm depth, or equivalent inversion cultivation, winter oilseed rape can be sown after a one month interval and winter cereals may be sown after a two month interval.

##### **Spring crops**

Following a failed crop in the autumn, and after cultivating to a minimum depth of 15 cm, spring wheat, spring barley, spring oats, spring oilseed rape, potatoes, sugar beet, maize, peas, beans, sunflowers and linseed may be re-drilled in the spring.

##### **Re-drilling due to crop failure after spring use**

After ploughing to 20 cm depth, or equivalent inversion cultivation, oilseed rape can be sown after a one month interval and maize and pea may be sown after a two month interval.

#### 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 which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.