

BASF

We create chemistry

Katamaran®

MAPP 16766

A suspension concentrate containing 125 g/l (10.8% w/w) quinmerac and 375 g/litre (32.3% w/w) metazachlor.

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

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS**Operator protection**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

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.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements. 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.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environment Risk

Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre from the top of a ditch which is dry at the time of application.

Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained.

The results of the LERAP must be recorded and kept available for inspection for three years.

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

Storage and disposal

Keep dry and frostproof in a suitable pesticide store.

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 container safely.

This label is compliant with the CPA Voluntary Initiative Guidance

Supplied by:

BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG, Telephone: 0161 475 3000

Emergency Information (24 hours freephone): 0049 180 227 3112

Technical Enquiries: 0845 602 2553 (office hours)

® = Registered trademark of BASF

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Voluntary
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Warning

**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/eye protection.

IF exposed or concerned: Call a POISON CENTRE or doctor/physician.

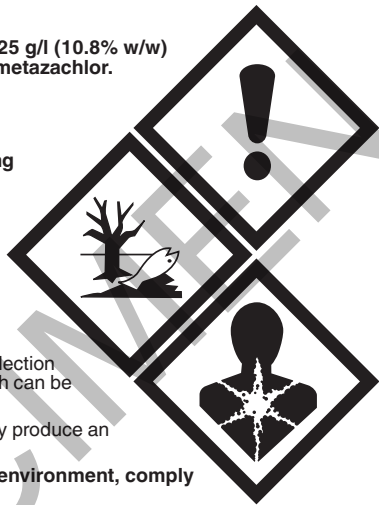
Collect spillage.

Store locked up.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean 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.



IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE, as directed below:

CROPS:	Winter and spring oilseed rape
MAXIMUM TOTAL DOSE:	2.0 l/ha
LATEST TIMING:	Up to and including 8th true leaf stage (GS 18)
Aquatic Buffer Zone:	5 metres

Other specific restrictions:

A maximum total dose of not more than 1000 g metazachlor/hectare may be applied in a three-year period on the same field.

Do not apply by hand-held equipment

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

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.

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

Restrictions/Warnings

Katamaran is suitable for use on all soil types as defined by 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 Katamaran 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, Katamaran 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 Katamaran 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 Katamaran under frosty conditions in tank mixture with other products.

If Katamaran 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 Katamaran to water:-

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

Weed control

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.

Susceptibility of weeds to single applications of Katamaran.

Katamaran 2.0 l/ha			
	Pre-emergence of weed Rating	Post-emergence of weed	
		Rating	Maximum susceptible growth stage
Amaranth, Common	S	-	Pre-em
Annual Mercury	R	-	Pre-em
Black-grass	S	-	Pre-em
Chamomile, Corn	S	S	GS 11
Chickweed, Common	S	S	GS 11
Cleavers	S	S	GS 12
Corn Spurrey	S	MS	GS 12
Cranesbill, Cut-leaved	MR	-	Pre-em
Cranesbill, Round-leaved	R	-	Pre-em
Cranesbill, Small flowered	R	-	Pre-em
Dead-nettle, Hen-bit	S	S	GS 12
Dead-nettle, Red	MR	MR	GS 11
Fat Hen	S	S	GS 10
Fool's Parsley	S	S	GS 10
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

Katamaran 2.0 l/ha			
	Pre-emergence of weed Rating	Post-emergence of weed	
		Rating	Maximum susceptible growth stage
Mayweed, Scentless Meadowgrass, Annual Mustard, Hedge	S S R	S - -	GS 14 Pre-em Pre-em
Nettle, Small Pansy, Field Parsley Piert	S R S	- - -	Pre-em Pre-em Pre-em
Penny-cress, Field Poppy, Common	R S	- S	Pre-em GS12
Shepherd's-purse Sowthistles Speedwell, Common field	S S # S	S - S	GS 10 Pre-em GS12
Speedwell, Ivy-leaved Speedwell, Procumbent Speedwell, Wall	S S S	S - -	GS10 Pre-em Pre-em
Volunteer barley Volunteer wheat	R R	- -	Pre-em Pre-em

S = Susceptible

MS = Moderately Susceptible

MR = Moderately Resistant

R = Resistant

= From seed

Pre-em = Pre-emergence of weed

- = No information

Resistance Management

GROUP

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HERBICIDES

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 Katamaran:

- 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 Katamaran in sequence with other effective graminicides with different modes of action.
- Monitor fields regularly and investigate the reasons for any poor control.

Crop Specific Information

Katamaran can be used on all varieties of winter and spring sown oilseed rape.

Katamaran 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 (GS 18). **The soil should be moist at application, or rainfall must occur shortly after application, but also see Restrictions/Warnings section.**

Following Crops

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

Re-drilling due to crop failure after autumn use

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

Winter crops

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

Mixing and Application

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 Katamaran 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.

Application

Apply 2.0 litres/hectare of Katamaran as a **MEDIUM** spray, as defined by BCPC.

Katamaran should be applied in a recommended water volume of 200 litres/ hectare

Qualified recommendation

Katamaran 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.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under Regulation (EC) No 1107/2009 and provides additional advice on product use.

Water protection:

This product contains **quinmerac** and **metazachlor** and is therefore included in the “**OSR Herbicides? Think Water**” stewardship campaign.

BASF have developed the **wHen2gO** smart tool for water stewardship. To download **wHen2gO** please see www.agricentre.basf.co.uk.

Following the guidance of **wHen2gO** will help to reduce the risk to water. Alternatively, the following closed periods for application apply:

- Avoid use of **metazachlor** or **quinmerac** after 30th September and do not use after 15th October.
- In high risk areas (drained fields in Safeguard Zones) do not use **metazachlor** or **quinmerac** after 30th September.

For further information, see www.agricentre.basf.co.uk and www.osrherbicides.org.uk or telephone BASF on 0845 602 2553



The following does not form part of the authorised label text.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other

products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

Section 6 of the Health and Safety at Work Act

Additional Product Safety Information

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has “off-label” approval or is otherwise permitted under the Plant Protection Products Regulations 1986.

The information on this label is based on the best available information including data from test results.

Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



agricentre.basf.co.uk/Katamaran/MSDS

Alternatively, contact your supplier.

EASY CONNECT



The easyconnect system requires a coupler for its use.

Step by step instruction for use with coupler:

- **Do NOT unscrew the easyconnect cap**
- Remove the dust cover
- **Do NOT push the plug manually into the container!**
- Turn the container upside down to connect the easyconnect cap to the coupler, then follow the instructions from your coupler supplier.
- After complete emptying and rinsing, push the plug into the container using a spike on the draining rack, allowing any residual rinsing water to drain.
- The easyconnect cap can be recycled together with the container according to local regulations. Do not transfer cap onto any other containers.
- **Note:** Whilst using the easyconnect coupler, please continue to wear PPE in line with the guidance on the product label.



Please find more information on www.easyconnect.tech

If you don't have a coupler yet, just unscrew the cap for conventional filling.

Step by step instruction for conventional use:

- **Do NOT remove the dust cover or push the plug into the container!**
- In the absence of a coupler, easyconnect caps can be used in the same way as traditional caps.
- Unscrew the easyconnect cap and pour the liquid into the induction bowl.
- **Note:** This will not leverage the benefits of the easyconnect system.
- The easyconnect cap can be recycled together with the container according to local regulations.

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WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection. 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. WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

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.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a

static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre from the top of a ditch which is dry at the time of application.

Aim spray away from water.

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The results of the LERAP must be recorded and kept available for inspection for three years.

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

Storage and disposal

Keep dry and frostproof in a suitable pesticide store.

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 container safely.

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