

SHARK®

Version and date: Version 5 – Spring 2008

Changes since last version: Restriction removed that prevented application by knapsack sprayers

Previous Change: Updated to incorporate new PSD labelling guidelines.



This label is compliant with the CPA Voluntary Initiative Guidance.

FORMULATION AND ACTIVE INGREDIENT: A micro-emulsion (ME) formulation containing 60g/l carfentrazone-ethyl for the control of weeds in potatoes and prior to planting a subsequent crop

PACK SIZE: 1LT

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MAPP No. 12762

Protect from frost. Shake well before use.

IMPORTANT INFORMATION			
For use only as an agricultural herbicide			
Crop	Maximum Individual dose (litres product ha)	Maximum number of treatments	Latest time of application
Potato	0.333	One per crop	Up to 10% crop emergence
All edible and non-edible crops (before planting)	0.333	One per year	One month before planting

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.

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

	Shark[®]	Micro-emulsion (ME) containing 60g per litre carfentrazone-ethyl
	Xi - IRRITANT	R43 – May cause sensitisation by skin contact R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	N-DANGEROUS FOR THE ENVIRONMENT	S24 – Avoid contact with skin. S35 – This material and its container must be disposed of in a safe way. S37 – Wear suitable gloves. S57 – Use appropriate containment to avoid environmental contamination.
		To avoid risk to man and the environment, comply with the instructions for use.

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.
- However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
- AVOID ALL CONTACT WITH SKIN
- WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental Protection

- 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.

Storage and Disposal

- 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.
- KEEP OUT OF THE REACH OF CHILDREN
- KEEP AWAY FROM FOOD AND DRINK, INCLUDING ANIMAL FEED AND DRINK
- KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

Restrictions

- Do not leave the diluted product in the tank overnight.
- Because some non-target plants are sensitive to Shark, avoid spray drift onto broad-leaved crops outside of the target area.

Resistance: As part of Good Agricultural Practice steps should be taken to adopt a resistance management strategy as standard. Shark should be alternated with herbicides with a different mode of action. Any subsequent herbicide applications should be made using herbicides with a different mode of action and a similar spectrum of activity.

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.

Shark is a contact herbicide which can be used for weed control in potatoes and for weed control prior to planting a subsequent crop.

Shark is a contact only herbicide. Weeds emerging after application will not be controlled.

WEED CONTROL

The following weeds are susceptible to SHARK, when applied early post-emergence:

- CROPS/SITUATIONS**
- Potatoes
 - Prior to planting subsequent crop

SOIL TYPE	- Any soil type	
LATEST TIMING POTATOES	- First Earlies – up to 5% emergence; - Second Earlies and Maincrops – up to 10% crop emergence	
LATEST TIMING PRIOR TO PLANTING A SUBSEQUENT CROP - 1 month before planting		
RATE OF APPLICATION	0.333 l/ha	
BROAD-LEAVED WEEDS	Growth stage	
Black bindweed	Cots – 2ETL	susceptible
Cleavers	Cots – 1 whorl	susceptible
Common field speedwell	Cots – 2ETL	susceptible
Common groundsel	Cots – 4ETL	susceptible
Fat hen	Cots – 4ETL	susceptible
Field bindweed	Cots – 2ETL	susceptible
Field pansy	Cots – 4ETL	susceptible
Ivy-leaved speedwell	Cots – 4ETL	susceptible
Knotgrass	Cots – 3ETL	susceptible
Perennial sowthistle	Cots – 2ETL	susceptible
Redshank	Cots – 3ETL	susceptible
Shepherd's purse	Cots – 4ETL	susceptible
Small nettle	Cots – 2ETL	susceptible
Volunteer oilseed rape	Cots – 2ETL	susceptible

For use as an early post emergence herbicide in potatoes

TIMING

Crop: Shark may be applied from pre-crop emergence up to before 5% crop emergence (i.e. 1 plant in 20 emerged) in first early varieties and before 10% crop emergence (i.e. 1 plant in 10 emerged) in second early and maincrop varieties. No plants should be more than 10cm high in any case.

Weed: For optimum control application should be made when weeds are between the cotyledon and 2-4 expanded leaf stage. Weeds emerging after application will not be controlled.

Treatment may cause burn off of emerged potato shoots within 7-10 days. Subsequent crop growth and yield are unaffected.

DOSE: The recommended dose of Shark is 0.333 l/ha

VOLUME OF WATER AND SPRAY PRESSURE:

Apply Shark in 200 l of water per hectare at a minimum spray pressure of 3 Bar using a medium spray quality as defined by the BCPC.

For use prior to planting a subsequent crop (spring/summer only)**TIMING**

Apply Shark when the weeds are no bigger than the maximum growth stages stated in the weed control table. **An interval of 1 month must be observed before planting any subsequent crop.**

DOSE: The recommended dose of Shark is 0.333 l/ha

VOLUME OF WATER AND SPRAY PRESSURE

Apply Shark in 200 l of water per hectare at a minimum spray pressure of 3 Bar using a medium spray quality as defined by the BCPC.

MIXING

SHAKE WELL BEFORE USE

Half fill the spray tank with clean water. Commence agitation. Steadily pour the required amount of Shark into the spray tank or induction bowl. Ensure all product has thoroughly mixed with the water and no traces are present in the induction bowl before adding any other product. Complete filling of the spray tank and maintain agitation until spraying is complete.

SPRAY TANK CLEAN-OUT

To avoid potential damage to other crops thoroughly clean all spray equipment (including inside and outside of the lid) using clean water:

1. Immediately after spraying of Shark, drain tank completely. Any contamination of the outside of the spraying equipment should be removed by washing with water to which should be added a commercially available cleaning agent (eg. All Clear Extra)
2. Rinse the inside of the tank with clean water, to which should be added a commercially available cleaning agent (eg. All Clear Extra) and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely. Repeat operation.
3. Do not contaminate surface waters or ditches with rinse water or empty containers.

DISPOSAL OF EMPTY PACKAGING AND SURPLUS PRODUCT AFTER TREATMENT

The empty packaging which contained this product must be rinsed with water using a manual system (three successive rinsing procedures), or by using a system of washing with water under pressure. The water used for cleaning must be returned into the spray tank. The packaging must be removed by the user to an assembly point established for this purpose. Dilute any surplus product left after treatment by about 10 times, and spray it on the area already treated in accordance with the instructions for use.

WARRANTY

The seller makes no warranty, expressed or implied, with regard to the use of the product other than that indicated on the label. The purchaser and user shall assume all risk associated with the use and/or handling and/or the storage of the product, if this use/and/or handling and/or storage are carried out contrary to the instructions on the label.

DAMAGES

Buyer's or user's exclusive remedy for damages, breach of warranty, or negligence, shall be limited to the direct damage, and shall not exceed the purchase price of the product, and shall not include any incidental or consequential damages.

TECHNICAL ENQUIRIES:	01480 403333
24 HOUR EMERGENCY NUMBER:	0032 1458 4545

Always read the label. Use pesticides safely.

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