

ADAMA



# Sword<sup>®</sup>

H

MAPP 15099

An emulsifiable concentrate formulation containing 240 g/l (22.2% w/w) clodinafop-propargyl and 60 g/l (5.5% w/w) cloquintocet-mexyl and solvent naphtha.

**A foliar acting herbicide for control of grasses in wheat, rye, triticale and durum wheat.**

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



## Danger

**Harmful if swallowed. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.**

**Repeated exposure may cause skin dryness or cracking.**

**Contains clodinafop-propargyl. May produce an allergic reaction.**

Keep out of reach of children.

Do not breathe vapours/spray.

Do not eat, drink or smoke when using this product.

Do NOT induce vomiting.

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.

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

ADAMA AGRICULTURAL SOLUTIONS UK LTD

Unit 15, Thatcham Business Village, Colthrop Way, Thatcham, Berkshire, RG19 4LW

Telephone: +44 (0)1635 860555 Technical Helpline: +44 (0)1635 876622

For advice on medical emergencies, fires or major spills telephone the

UK National Chemical Emergency Centre on +44 (0)1865 407333

Batch No: see packaging

**PROTECT FROM FROST  
SHAKE WELL BEFORE USE**

1 litre e

To access the Safety Data Sheet for this product scan the QR code or use the weblink: <http://goo.gl/xwDTH1> - Alternatively, contact your supplier.

Scan for  
Safety Data  
Sheet



FRS3510A06 R3.1.3 JUL16

## This leaflet/booklet is part of the approved label.

For advice on medical emergencies, fires or major spills telephone  
the National Chemical Emergency Centre on 01865 407333

### IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum individual dose (L product/ha)	Maximum number of applications	Latest time of application
Wheat, durum wheat	0.25	One per crop	Before flag leaf sheath extending stage (GS 41)
Rye and triticale	0.25	One per crop	Before 2nd node detectable stage (GS 32)

#### Other specific restrictions:

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing clodinafop-propargyl.

**READ THE LABEL BEFORE USING. 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.**

## 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 they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### 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

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 washing to sprayer at time of filling and dispose of safely.

## 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.

### RESTRICTIONS

DO NOT spray cereals under-sown with grass or on barley or oats.

DO NOT spray crops which are under stress at the time of application, e.g. weather extremes (drought, water-logging, frost), pest or disease attack or nutrient deficiency.

Avoid spraying if rain is expected within one hour of application as efficacy may be reduced.

Avoid use in mixture or sequence with hormone containing herbicides.

Contract agents should be consulted before using on crops grown for seed.

If SWORD® is applied first, leave 7 days prior to hormone application.

If mecoprop-P or 2,4-DB is applied first, leave 14 days prior to SWORD application.

If MCPA or 2,4-D is applied first, leave 21 days prior to SWORD application.

### RESISTANCE MANAGEMENT

This product contains clodinafop-propargyl which is an ACCase inhibitor also classified by the Herbicide Resistance Action Committee (HRAC) as 'Group A'. Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass weed control. Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

Always follow WRAG guidelines for preventing and managing herbicide resistant grass weeds.

Do not use SWORD or any other ACCase inhibitor as the sole means of grass weed control in successive crops.

Use grass weed herbicides with different modes of action throughout the cropping rotation.

To reduce the risk of developing resistance, applications should be made to young, actively growing weeds.

Use crop rotation and other cultural control measures to prevent and manage herbicide resistant grass weeds.

Use tank/product mixes or sequences of herbicides with different modes of action within individual crops or successive crops.

Only apply SWORD once per crop and do not use in mixture or sequence with any product containing clodinafop-propargyl.

Monitor weed control effectiveness and investigate any odd patches of poor grass weed control. If unexplained, contact your agronomist who may consider a resistance test appropriate.

Strains of some annual grasses e.g. blackgrass, wild oats and Italian ryegrass have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing herbicide resistant grass weeds should be adopted. Guidelines have been produced by the Weed Resistance Action Group. Copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

## WEED CONTROL

Optimum weed control is best achieved when all the grass weeds have emerged and are actively growing under good conditions. If broad-leaved weeds are present it is advised to apply in mixture with a suitable broad-leaved herbicide.

Weed	Weed growth stages controlled
Wild oats	Apply from 1st leaf unfolded to flag leaf ligule visible
Rough meadowgrass	Apply from 1st leaf unfolded to main shoot and 3 tiller stage
Annual ryegrass Italian ryegrass <sup>§</sup>	Moderately susceptible from the 1st leaf unfolded to main shoot and 3 tiller stage

SWORD may also be used for the control of blackgrass as part of a blackgrass management strategy involving mixtures and sequences with herbicides or alternative modes of action.

<sup>§</sup> For the control of Italian ryegrass always use as part of a weed control programme using other products against ryegrasses.

## CROP SPECIFIC INFORMATION

SWORD can be safely used post-emergence on all varieties of wheat, including autumn drilled spring wheat, durum wheat, rye and triticale.

### Timing

Wheat: apply from one true leaf stage to before flag leaf sheath extending stage of the crop.

Rye and triticale: apply from one true leaf stage to before 2nd node detectable stage of the crop.

## Rates of Use

SWORD can be applied alone at 0.25 L/ha OR at a reduced rate of 0.125 L/ha in tank-mix with a suitable adjuvant (see Compatibility section). Apply in 110-200 L/ha water, use the higher volume where weeds are dense or at a larger growth stage.

### Weed efficacy

SWORD is a contact herbicide with no residual activity.

All targeted grass weeds should be emerged and actively growing before application.

Apply SWORD in good growing conditions. Extreme conditions, such as dry or cold conditions, can impair growth of targeted weeds and therefore performance of SWORD.

SWORD does not control broad-leaved weeds.

### Following Crops

**CROP FAILURE:** If a crop fails for any reason, any broad-leaved crop may be drilled. After 3 weeks any cereal crop may be drilled.

**FOLLOWING NORMAL HARVEST:** Any broad-leaved crop or cereal crop may be drilled.

## APPLICATION

### Mixing

Ensure the sprayer is clean and in good working order. Calibrate according to sprayer manufacturers recommendations.

Half-fill the spray tank with clean water and add the required quantity of SWORD. Mix thoroughly before adding the required quantity of adjuvant. Add the remainder of the water and continue agitation until spraying is complete.

Apply as a FINE or MEDIUM quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Do not use pre-orifice or air induction nozzles as efficacy maybe reduced.

## COMPATIBILITY

**SWORD 0.125 L/ha + Adjuvant: At the reduced dose SWORD should be mixed with an authorised adjuvant from the methylated seed oil, mineral oil or non-ionic surfactant classes. Methylated seed oils are preferred.**

## DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

### **Adama Agricultural Solutions Ltd**

Unit 15, Thatcham Business Village  
Colthrop Way, Thatcham, Berkshire RG19 4LW  
Telephone: 01635 860555  
Technical Helpline: 01635 876622  
www.adama.com  
email: ukenquiries@adama.com

SWORD® is a registered trademark of a company of the Adama Group.

© Adama Agricultural Solutions UK Ltd

**Other brand names referred to on this label are trademarks of other manufacturers in which proprietary rights may exist.**

## 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 they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### 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

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 washing to sprayer at time of filling and dispose of safely.

## IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum individual dose (L product/ha)	Maximum number of applications	Latest time of application
Wheat, durum wheat	0.25	One per crop	Before flag leaf sheath extending stage (GS 41)
Rye and triticale	0.25	One per crop	Before 2nd node detectable stage (GS 32)

### Other specific restrictions:

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing clodinafop-propargyl.

**READ THE LABEL BEFORE USING. 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.**

ADAMA 

# Sword®

H

MAPP 15099

An emulsifiable concentrate formulation containing 240 g/l (22.2% w/w) clodinafop-propargyl and 60 g/l (5.5% w/w) cloquintocet-mexyl and solvent naphtha.

**A foliar acting herbicide for control of grasses in wheat, rye, triticale and durum wheat.**

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



## Danger

**Harmful if swallowed. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Contains clodinafop-propargyl. May produce an allergic reaction.**

Keep out of reach of children. Do not breathe vapours/spray. Do not eat, drink or smoke when using this product. Do NOT induce vomiting. 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.

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

ADAMA AGRICULTURAL SOLUTIONS UK LTD

Unit 15, Thatcham Business Village, Colthrop Way, Thatcham, Berkshire, RG19 4LW

Telephone: (01635) 860555 Technical Helpline: (01635) 876622

For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333

Batch No: see packaging

**PROTECT FROM FROST  
SHAKE WELL BEFORE USE**

1 litre e

To access the Safety Data Sheet for this product scan the QR code or use the weblink: <http://goo.gl/xwDTH1> - Alternatively, contact your supplier.

Scan for  
Safety Data  
Sheet



WRS3510A06 R3.1.3 JUL16