

# AvadeX<sup>®</sup> Factor

A herbicide for use on winter wheat, winter barley and spring barley

MAPP 17877

A capsule suspension containing 450 g/L tri-alleate

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE For the control of a range of weeds in listed cereals

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

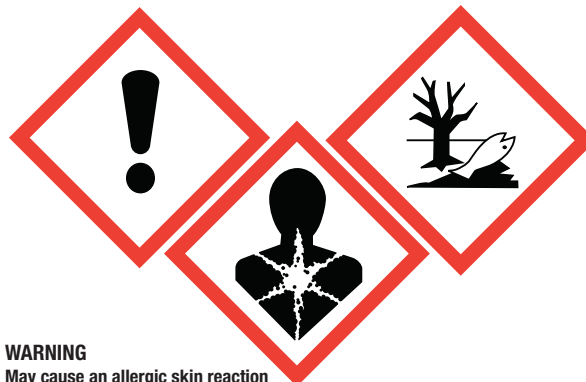
## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE, AS DIRECTED BELOW

Crops	Maximum individual dose (Product/hectare)	Maximum number of treatments	Latest time of application	Horizontal boom with conventional spray technology	
				Aquatic Buffer zone (m)	Reducible?
Winter wheat, winter and spring barley	3.6 litres	1 per crop	Pre-crop emergence	15	No

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 15 metres of the top of the bank of a static or flowing water body, or within 1 metre of the top of a ditch which is dry at the time of application. Aim spray away from water. THIS CROP IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.

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.



**WARNING**  
 May cause an allergic skin reaction  
 May cause damage to organs through prolonged or repeated exposure via the oral route  
 Very toxic to aquatic life with long lasting effects.  
 Do not breathe spray.  
 Avoid release to the environment.

Wear protective gloves.  
 IF ON SKIN: Wash with plenty of soap and water  
 Repeated exposure may cause skin dryness or cracking.

Gowan Crop Protection Ltd, Highlands House,  
 Basingstoke Road, Spencers Wood,  
 Reading, Berks, RG7 1NT.  
 (Registered company number: 9852199)

24 HOUR EMERGENCY TELEPHONE NUMBER:  
 +44 (0) 870 820 04 18

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 Gowan Crop Protection Ltd.  
 Lot Number/Production Date:

**Gowan**<sup>®</sup>  
 CROP PROTECTION LIMITED

Pack Size:  
**10 L<sub>e</sub>**

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## DIRECTIONS FOR USE

**IMPORTANT: This information is authorised 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.**

### Soil Type

Avadex Factor may be used on soils containing less than 10% organic matter.

### Seedbed and climate conditions

Apply Avadex Factor to well prepared, moist seedbeds. Very cloddy seedbeds should be avoided. Loose, puffy seedbeds should be consolidated prior to drilling. Avadex Factor needs some moisture after application. If winter cereals are drilled in very dry conditions, application should be delayed until more favourable soil moisture conditions occur.

### Weeds Controlled

Avadex Factor herbicide controls wild-oats and moderate populations of black-grass, Italian rye-grass, and loose silky-bent. Where heavy populations of black-grass exist in winter crops of wheat and barley, use of a programme of herbicide treatments is recommended. Wild-oats germinating on or near the soil surface or from well below the treated layer may not be controlled.

### Following Crops

Do not sow oats or grass crops within a year after treating with Avadex Factor. Do not undersow grass species in crops that have been treated with this product. It is safe to undersow with clover and other legumes.

### Mixing and Spraying

Pour the required amount of Avadex Factor into the spray tank half-filled with water. Fill the remainder of the spray tank with water to the desired level, using the agitation system. Maintain agitation during the spray operation.

Use a water volume of 200 to 300 litres/hectare. Ensure uniform coverage of the soil with the spray solution. Avoid boom overlap and overdosing, as this may result in crop damage. Any crop damage resulting from spray boom overlap is likely to be transient and should not adversely affect crop yield.

### EQUIPMENT CLEANING

Following the completion of spray operations, the outside of the sprayer should be thoroughly cleaned and the spray-tank cleaned using a triple rinse procedure, with the addition of a proprietary tank-cleaner as part of the final rinse operation.

### Compatibility

For information about tank mixes please consult your distributor/advisor

### Crop Specific Information: Recommended use

Crop	Depth of drilling	Application rate – L/HA
Winter and spring barley	Normal	3.6
Winter wheat	4.0 cm	3.6

For winter crops, apply post-drilling but pre-emergence of the crop and weeds.

Spring barley can be applied Pre-drilling and incorporate with final seedbed cultivation or post-drilling, pre-emergence of crop and weeds.

Where control is required of moderate to heavy populations of annual grasses, Avadex Factor should be used in sequence with other herbicides so long as the labels of each product are followed

### Resistance

Strains of some annual grasses (e.g. black-grass, wild-oats and Italian rye-grass) have developed resistance to herbicides why may lead to poor control. A strategy for managing and preventing such resistance should be developed. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer. Avadex Factor should only be used for control of herbicide resistant strains of annual grasses as part of an appropriate management strategy, including cultural control methods and sequences with herbicides of alternative modes of action.

Key aspects of the Avadex Factor resistance management strategy are:

- Always follow WRAG guidelines for preventing and managing herbicide resistant grass weeds.
- Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, stale seedbeds, delayed drilling).
- Use a programme of tank mixes or sequences of herbicides with different modes of action within individual crops, or successive crops.
- Where products are approved for both pre- and post-weed emergence applications, apply pre-emergence where possible when resistance is suspected
- Apply post-emergence products/mixtures to small, actively growing weeds, especially where high levels of resistance are suspected and to reduce the risk of resistance development.
- 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

### Conditions of Sale:

The following shall form part of any contract of sale of this product whether sold by the manufacturer or a subsequent owner ("The Seller").

1. The Seller warrants that the product complies with the product specification prevailing at the date of sale which is obtainable from the Seller on request provided that (except to the extent that any claim is in respect of personal injury or death) the said Seller's liability for breach of this warranty is limited to the price of the products involved in the breach.
2. Except as aforesaid all conditions and warranties statutory or otherwise and express or implied as to the quality of this product or its fitness for any purpose are expressly excluded.
3. Except as aforesaid neither Gowan Crop Protection Limited (GCP) nor (where different) the Seller shall be under any liability other than for personal injury or death whether in contract or in tort for any loss or damage arising out of or resulting from the use of the product.
4. GCP shall in no event be liable for any loss or damage caused by the failure of any person to use the product in accordance with the instructions for use given by GCP.

### MEDICAL ADVICE

#### Health Effects

Accidental over exposure may result in the following symptoms:

Skin & eyes: Slight irritation.

Inhalation: Solvent: Excessive exposure to HAN can result in headache, dizziness, incoordination, nausea, loss of appetite and unconsciousness. If you should feel unwell seek medical advice - show the label where possible.

### 24 HOUR EMERGENCY TELEPHONE NUMBER:

**+44 (0) 870 820 0418**

### First Aid

When giving first aid always use personal protective equipment if you are likely to be contaminated by contact with the person to whom you are giving aid - see label.

Remove patient to fresh air.

**Skin:** Take off immediately all contaminated clothing. Wash immediately with plenty of soap and water. If there is persistent irritation, get medical attention.

**Eyes:** Flush immediately with plenty of clean water for at least 15 minutes. If there is persistent irritation, get medical attention.

**Inhalation:** Seek medical treatment if symptoms occur apparently due to inhalation. If breathing is difficult, give oxygen. Give artificial ventilation if breathing stops.

### SAFETY PRECAUTIONS

#### Operator protection

Engineering control of operator exposure must be used where reasonably practicable, in addition to the following personal protective equipment: Operator must 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 that they provide an equal or higher standard of protection.

AVOID CONTACT WITH SKIN.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice immediately (show label where possible).

#### Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone of the distance specified in the Important Information box. This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The results of the LERAP record form must be kept available for three years.

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.

Avoid spray drift onto adjacent crops, especially crops of oats and grasses, either emerged or yet to emerge, as these are particularly sensitive.

#### Storage and disposal

DO NOT RE-USE CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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.

Keep dry and frost proof in a suitable pesticide store.

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

Keep at temperatures not exceeding 40°C and above -8°C. Protect from frost.

Lot Number/Production Date:

Product use by date: