

# CROPLINK EMPIRE

## HERBICIDE

A soluble granule formulation containing 200 g/kg metsulfuron-methyl for spring weed control in wheat, oats, barley, triticale, linseed and green cover on land temporarily removed from production.

**PCS No.: 03051**

**Croplink Empire**



**VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT**

**DANGEROUS FOR THE ENVIRONMENT**

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

**PCS No 03051**

*Contents: XX*

*Manufactured in the E.U*

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## RISK AND SAFETY PRECAUTIONS

### Operator Protection

- *If swallowed seek medical advice immediately and show this container label*

### Environmental Protection

- *Use appropriate containment to avoid environmental contamination*
- *Do not allow direct spray from ground crop sprayer to fall within 5m of the top of the bank of a static or flowing water body or within 1m of the top of a ditch that is dry at the time of application. Direct spray away from water.*
- *Do not contaminate water with this product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads*

### Storage and Disposal

- *Keep out of reach of children*
- *This material and its container must be disposed of safely*

#### **FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

<b>Crops:</b>	Wheat, oats, barley, triticale, linseed, and land removed from production
<b>Maximum individual dose:</b>	Wheat, oats, barley, triticale, linseed, and land removed from production: 30 g/ha
<b>Maximum number of treatments:</b>	Wheat, oats, barley, triticale and linseed: 1 per crop One per year for green cover on land temporarily removed from production.
<b>Latest time of application:</b>	Wheat, oats, barley and triticale: Before the flag leaf sheath extending stage (GS39) Linseed: before flower buds visible, or up to 30 cm tall, whichever is the sooner. Green cover on land temporarily removed from production: before 1 August in year of application.
<b>Method of application:</b>	Tractor mounted sprayer / knapsack / rotary atomiser
<b>Other specific restrictions:</b>	This product must only be applied from 1 February in the year of harvest until the specified latest timing of application.

## DIRECTIONS FOR USE

All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

### **RESTRICTIONS**

- CROPLINK EMPIRE, alone or in tank-mix, must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Do not use CROPLINK EMPIRE on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Do not apply 'CROPLINK EMPIRE' to any cereal crop in sequence or in tank mixture with a product containing any other sulfonylurea or 'ALS inhibiting' herbicide except:
  - flupyrsulfuron methyl
  - flupyrsulfuron methyl in combination with carfentrazone
  - flupyrsulfuron methyl in combination with thifensulfuron methyl
- CROPLINK EMPIRE should not be applied within 7 days of rolling the crop.
- Do not tank-mix CROPLINK EMPIRE with chlorpyrifos. Allow at least 14 days between application of CROPLINK EMPIRE and chlorpyrifos treatments.
- Do not use CROPLINK EMPIRE in tank-mix on oats, triticale or linseed. Allow at least 7 days between CROPLINK EMPIRE and other treatments (10 days if crop is growing poorly or under stress).
- Contract agents should be consulted before using on crops grown for seed.
- Due to the high level of activity of the herbicide, **special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important** - see below.
- **Following Crops** - Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with CROPLINK EMPIRE.
- **Crop Failure** - In the event of crop failure for any reason, sow only wheat within 3 months of the application of CROPLINK EMPIRE.

## **WEED CONTROL**

*CROPLINK EMPIRE* is a highly active herbicide with foliar and root activity against a wide range of broad-leaved weeds. It is most effective when applied to small actively growing weeds. As larger weeds often become less susceptible, it is important to note the size of each weed species at the time of application.

Good spray cover of the weeds must be obtained. Weed control may be reduced when soil conditions are very dry. Nevertheless, with adequate soil moisture, susceptible weeds germinating soon after treatment will be controlled.

### **Weed Resistance**

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. Development of resistance within a weed species can be avoided or delayed by sequencing or tank-mixing with suitable products having a different mode of action.

\*\* For the control of Common chickweed, this product must always be applied in a mixture with an alternate mode of action herbicide at recommended rates.

A strategy for preventing and managing resistance should be adopted. Further details and advice on how to implement such a strategy may be obtained from your crop adviser or supplier. The Herbicide Resistance Action Committee (HRAC) also produces guidelines that may be consulted for additional information.

### **Susceptible Weeds**

The susceptibility ratings of weeds in the following table refer to good spray cover and good growing conditions.

<b>Weed Species</b>	<b>Plants up to 2 expanded true leaves *</b>	<b>Plants up to 6 expanded true leaves *</b>	<b>Plants up to 15 cm across/high *</b>
Black-bindweed	MS	MS	--
Charlock	S	S	S
Chickweed, Common **	S	S	S
Cranes-Bill, Dove's Foot	S	S	--
Dead-nettle, Red	S	S	MS
Docks	S	S	S
Fat-hen	S	R	R
Field-speedwell, Common	S	S	MS
Forget-me-not, Field	S	MS	MS
Fool's Parsley	S	S	MS
Hemp-nettle, Common	S	S	S
Knotgrass	S	MS	MS
Mayweeds	S	S	S
Nettle, Small	S	S	--
Pale Persicaria	S	S	S
Pansy, Field	S	MS	MS
Parsley-piert	S	S	S
Poppy, Common	S	S	MS
Redshank	S	S	S
Shepherd's-purse	S	S	S
Sowthistle, Smooth	S	--	--
Volunteer Rape	S	S	--
Volunteer Sugar Beet	S	S	S

\*S = Susceptible MS= Moderately Susceptible MR = Moderately Resistant R = Resistant

\*\* See Weed resistance paragraph.

## **SOIL**

CROPLINK EMPIRE can be used on all soil types.

## **VOLUME AND APPLICATION**

Apply in 100 - 200 litres of water per hectare, using suitable equipment to give good spray cover of the weeds. When crops are thick or weed growth dense, use 400 litres of water per hectare.

When applying CROPLINK EMPIRE, care should be taken not to overlap spray swaths.

## **MIXING**

- Before using CROPLINK EMPIRE, make sure that the spraying equipment is clean.
- When using CROPLINK EMPIRE in a tank-mix, always add CROPLINK EMPIRE to the spray tank first.

CROPLINK EMPIRE mixes easily with water, but the following mixing procedure should be followed: quarter fill the spray tank with water, start the agitation and add the required quantity of

CROPLINK EMPIRE directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

## **COMPATIBILITY**

To widen the spectrum of activity and improve the control of some weeds, CROPLINK EMPIRE may be tank-mixed with other herbicides. Products should only be tank-mixed if each product can be applied within the label recommendations for its use.

When using CROPLINK EMPIRE in a tank-mix, always add CROPLINK EMPIRE to the spray tank first.

Do not use any product in a tank-mix if the mixture cannot be applied within the recommendations for all the separate ingredients. Before applying in tank-mix with any other product, consult your supplier.

For further information contact your Du Pont distributor.

## **CROPS**

### **CEREALS**

#### ***CROP SAFETY***

CROPLINK EMPIRE can be used on all winter and spring varieties of wheat, oats, barley and triticale between the growth stages given below.

#### ***TIMING***

CROPLINK EMPIRE must only be applied from 1 February, provided the crop has at least two leaves (wheat, oats, and triticale) or three leaves (barley), until before the flag leaf extending stage.

#### ***DOSE***

Apply CROPLINK EMPIRE at 30 g/ha when used alone or in tank-mix with other herbicides.

#### ***FOLLOWING CROPS***

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with CROPLINK EMPIRE.

### **LINSEED**

#### ***CROP SAFETY AND TIMING***

CROPLINK EMPIRE should be applied to actively growing linseed (all varieties) from the growth stage "first pair of true leaves unfolded", up to 30 cm high or before flower buds visible, whichever comes first. Most annual weeds are best controlled by the earliest application possible.

## **DOSE**

Apply CROPLINK EMPIRE at 30 g/ha.

## **FOLLOWING CROPS**

Only cereals should be planted within 16 months of applying CROPLINK EMPIRE to a linseed crop.

## **GREEN COVER ON LAND TEMPORARILY REMOVED FROM PRODUCTION**

### **DOSE AND TIMING**

CROPLINK EMPIRE can be used for broad-leaved weed control in set-aside land within current guidelines and in accordance with the following instructions.

- Apply CROPLINK EMPIRE at 30 g/ha in 200 litres of water/ha
- Only one application of a sulfonylurea-containing product must be made per calendar year to set-aside areas.

### **FOLLOWING CROPS**

- Only cereals or grass may be sown in the same calendar year to set-aside land treated with CROPLINK EMPIRE.

## **WARNINGS**

**EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT ONTO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA OR ONTO SURFACE WATERS OR DITCHES OR LAND INTENDED FOR CROPPING.** SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.

## **SPRAY TANK CLEAN-OUT**

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING CROPLINK EMPIRE THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after removing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.
2. Repeat the rinse, flush and drain.

### **GENERAL NOTES:**

- Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

## **NOTICE TO BUYER**

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, 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.

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