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# RISK AND SAFETY INFORMATION

## STEWARD®

**Insecticide** - contains 300 g/kg indoxacarb  
Contains Indoxacarb. May produce an allergic reaction

### WARNING



**Harmful if swallowed.**

**May cause damage to organs (nervous system).**

**Very toxic to aquatic life with long lasting effects**

Do not breathe vapours/spray.

Wash hands thoroughly after handling.

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

IF exposed or if you feel unwell: Call a POISON Centre or doctor/physician.

Collect spillage.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

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).

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

PCS No 02603, MAPP No 18792

**FMC**

# STEWARD® Insecticide

GROUP

22A

INSECTICIDE

**PCS No 02603,  
MAPP No 18792**

**FOR PROFESSIONAL USE ONLY**



A water dispersible granule containing 300 g/kg indoxacarb for the control of caterpillars in cabbage, cauliflower, broccoli, apples, pears and various protected fruiting vegetables and pollen beetle in Winter and Spring oilseed rape.

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



**250 g e**

## Approval holder and marketing company:

FMC Agro Limited, Rectors Lane, Pentre, Flintshire, CH5 2DH. Tel: 01244 537370. Email: [fmc.agro.uk@fmc.com](mailto:fmc.agro.uk@fmc.com)

Website: [www.fmc-agro.co.uk](http://www.fmc-agro.co.uk). Technical Helpline: 01423 205011

**Emergency No.s - Medical Incidents Involving Crop Protection**

**Products:** England & Wales: 111, Scotland: 08454 24 24 24, Northern Ireland: Local GP or Pharmacist, Republic of Ireland: 01 837 9964.

**Healthcare professionals seeking poisons information:** [www.toxbase.org](http://www.toxbase.org).

**Emergency No.s - Transportation, Warehousing & After Sale**

**Incidents:** CHEMTREC help centre Dialling from the UK and NI: 0870 820 0418, Dialling from Ireland: 01 901 4670

\* DuPont's registered trademark



**The Voluntary Initiative**

(UK only) This label is compliant with the CPA Voluntary Initiative Guidance

To access the Safety Data Sheet for this product scan the code, visit [www.fmc-agro.co.uk](http://www.fmc-agro.co.uk) or alternatively contact your supplier



Batch N°:

11005310\_22051585\_GREAT BRITAIN AND NORTHERN IRELAND

CYAN MAGENTA JAUNE NOIR



	FILL IN		DIMENSION (WxH)
Country	GREAT BRITAIN AND NORTHERN IRELAND	Single label	
Product SKU	11005310	Base for Booklet	
Product SKU Description	STEWARD_250G_GB IE	Booklet	BKL 230x95 mm (190x95 mm)
Label SKU	22051585	Number of pages (Booklet)	8 pages
Label SKU Description	LBL_ML-F_250G_STEWARD_GB IE_2	Carton label	
Label SKU (earlier version)	F-04640	Preprinted Material	No

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### IMPORTANT INFORMATION

#### FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crops	Max. individual dose (g product / ha or 100 l water)	Max. number of treatments	Latest time of application
Cabbage, cauliflower, broccoli	85 g/ha	3 per crop	1 day before harvest
Protected cucumber, courgette, marrow, winter squash, pumpkin, melon, aubergine, tomato and pepper	12.5 g/100 l water	6 per year	1 day before harvest
Apples, pears	250 g/ha	3 per year	7 days before harvest
Winter and Spring oilseed rape	85 g/ha	1 per crop	Before GS 60 (first flowers open stage)

#### OTHER SPECIFIC RESTRICTIONS

When applying to protected crops the maximum spray concentration must not exceed 12.5 g product/100 litres of water

(UK only) This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme for broadcast air-assisted sprayers only. Before each spraying operation from a broadcast air-assisted 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 three years

(IRL only) - Method of application: Tractor mounted sprayer, Knapsack and Orchard blast sprayer

**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**

## 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 GLOVES AND SUITABLE PROTECTIVE RESPIRATORY PROTECTIVE EQUIPMENT (disposable filtering facepiece to EN 149 FFP2, or equivalent) when handling the product  
WEAR SUITABLE PROTECTIVE GLOVES when during application by broadcast air-assisted sprayer.

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

TAKE OFF IMMEDIATELY all contaminated clothing

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

### ENVIRONMENTAL PROTECTION

**(UK only)** Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out, or ensure that someone else has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a broadcast air-assisted sprayer. Users must not allow direct spray from such sprayers to fall within 15m of the top of the bank of any static or flowing waterbody or within 5m of a ditch which is dry at the time of application (these distances to be measured as set out in the booklet 'Local Environment Risk Assessment for Pesticides - Broadcast Air-assisted Sprayers' - and any amendments that are made to it) unless:

- (a) The LERAP indicates that a narrower buffer zone will be sufficient; and
- (b) Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them.

Spray must be aimed away from water.

**(UK only)** The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use)

Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

**(UK only)** Detailed guidance on LERAPs and how to conduct a LERAP are contained in the booklet 'Local Environment Risk Assessment for Pesticides - Broadcast Air-Assisted Sprayers', available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.

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.

**(Ireland only)** Broadcast air-assisted sprayers - To protect aquatic organisms respect an unsprayed buffer zone of 15m to surface water bodies.

### OTHER SPECIFIC RESTRICTIONS

**(UK only)** This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme for broadcast air-assisted sprayers. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with the 'Local Environment Risk Assessment for Pesticides Broadcast Air-Assisted Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

When applying to protected crops the maximum concentration must not exceed 12.5 g of product per 100 litre water.

### STORAGE AND DISPOSAL

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

DO NOT RE-USE CONTAINER FOR ANY OTHER PURPOSE

## 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

Steward 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. Good agricultural practice suggests that Steward should be used when bees are less active (i.e. early morning or late evening).

### INSECT CONTROL

Steward is an oxadiazine (IRAC group 22) insecticide used for the moderate control of pollen beetle (*Meligethes* spp.) and the larvae of various Lepidopteran (caterpillar) species. Activity is by ingestion and contact. The product also shows ovicidal efficacy against some species. Paralysis of the pest occurs within a few hours of exposure and results in cessation of movement and feeding. Optimal effectiveness takes 6-7 days.

### Insect resistance

When insecticides with the same mode of action are used repeatedly over several years to control the same species in the same field, naturally-occurring resistant strains may survive a correctly applied treatment, propagate, and become dominant in that field. An insect can be resistant if the product applied under recommended conditions does not work well. Some insects (e.g. *Cydia pomonella*) have developed resistance to commercially available products. When resistance occurs, recommended rates fail to suppress the pest population below economic thresholds.

It is important that the grower considers the following:

- Alternate the use of Steward with products with a different mode of action than indoxacarb.

- Monitor insect populations and apply Steward when locally determined economic thresholds are reached. More than one application may be necessary for any infestation.
- Follow the directions for use as mentioned on this label, regarding dose, interval and optimum application timing.

Growers should consult the IRAG website for further information on the current resistance management strategy for pollen beetle.

### CROPS

Steward may be applied to the following crops:

#### Cabbage, cauliflower and broccoli

**Pests controlled:** Cabbage whites (*Pieris* spp.), Cabbage moth (*Mamestra brassicae*), Garden pebble moth (*Evergestis forficalis*), Cabbage leafroller (*Clepsis spectrana*) and Diamondback moth (*Plutella xylostella*).

**Dose:** 85 g/ha in 200 l/ha using boom sprayer.

**Timing:** Treat when first caterpillars are detected or 7-10 days after trapping of the first adults in pheromone traps. Subsequent treatments may be applied at 8-14 day intervals as required.

#### Protected cucumber (gherkin), courgette (zucchini), marrow, winter squash, pumpkin, melon, aubergine, tomato and pepper

**Pests controlled:** Golden twin-spot moth (*Chrysodeixis chalcites*), Beet armyworm (*Spodoptera exigua*), Cabbage moth (*Mamestra brassicae*), Tomato moth (*Lacanobia oleracea*), Silver y-moth (*Autographa gamma*) and other *Plusia* species and leafrollers.

**Dose:** 0.0125% w/v (12.5 g/100 L of water)



**Timing:** Treat as soon as the first caterpillars (damage) are detected. Subsequent treatments may be applied at 8 -14 day intervals as required.

### **Apples and pears**

**Pests controlled:** Steward will provide moderate control of Marbled orchard tortrix (*Hedya nubiferana*), Large fruit tree tortrix (*Archips podana*), Rose tortrix (*Archips rosana*), Straw-coloured tortrix (*Clepsis spectrana*), Dark fruit tree tortrix (*Pandemis heparana*), Bud moth (*Spilonota ocellana*), Summer fruit tortrix (*Adoxophyes orana*), Codling moth (*Cydia pomonella*), Winter moth (*Operophtera brumata*) and *Orthosia* spp.

**Dose:** A rate of 250 g/ha should be used for trees of 3.75 m height in a single row system, 3.25 m height in a 2 or 3 row system and 2.25 m in a 5 row system. Where tree height and/or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. However, if reducing the dose according to tree height or canopy density, do not use less than 170 g/ha. Consult your specialist advisor for further information. Further information on the PACE scheme is available from HDC, or see the HDC fact sheet available from HSE's website <http://www.pesticides.gov.uk/HDC.pdf>

**Timing:** Apply at egg-hatch. Subsequent treatments may be applied at 10 - 14 day intervals.

### **Winter and Spring oilseed rape**

**Pest controlled:** Steward offers moderate control of Pollen beetle (*Meligethes* spp.)

**Dose** 85 g/ha in 200 l/ha using boom sprayer.

**Timing** Apply when pollen beetles are present and reaching threshold levels. Application may be made before GS 60 first flowers open growth stage.

### **MIXING**

Before using Steward, make sure that the spraying equipment is clean. Steward mixes easily with water, but the following mixing procedure should be followed:

Quarter fill the spray tank with clean water, start the agitation and add the required quantity of Steward directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying. (IRL only) Follow the Good practice guide for empty pesticide containers.

### **SPRAY TANK CLEAN-OUT**

Immediately after application, completely drain spray equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Loosen and physically remove visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Take all necessary safety precautions when cleaning equipment. Do not clean near wells or water sources. 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.





