



IT DIFLUFENICAN

MAPP 13044
contains 500 g/l (43.47 % w/w) diflufenican in a suspension concentrate formulation

A contact and residual broad-leaved weed herbicide for use in winter wheat, winter barley, winter rye and triticale.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

IMPORTANT INFORMATION			
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE			
Crop	Maximum individual dose	Maximum number of treatments	Latest time of application
Winter wheat Winter barley	0.25 l product/ha	One per crop	Before end-February in the year of harvest
Triticale Winter rye	0.20 l product/ha	One per crop	Pre-emergence of the crop

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

To avoid risks to man and the environment, comply with the instructions for use. Safety data sheet available for professional user on request.

This product is approved under the Control of Pesticides Regulations 1986.

IT Agro Limited 823 Salisbury House 29 Finsbury Circus LONDON EC2M 5QQ Tel: 020 7613 4372	Contents: 1 litres PROTECT FROM FROST SHAKE THOROUGHLY BEFORE OPENING
Batch No:	

135 mm

149 mm

Safety data sheet

1. Identification of the substance/preparation and of the company/undertaking	IT DIFLUFENICAN
MAPP: 13044 Prepared on: 11-06-2007/ ABB Replaces: 01-02-2007 Product use: A contact and residual broad-leaved weed herbicide for use in winter wheat, winter barley, winter rye and triticale.	Supplier: I.T. Agro Ltd. 823 Salisbury House 29 Finsbury Circus London EC2M 5QQ Tel: 020 7613 4372 Fax: - Emergency telephone number: +020 7613 4372 Email: inter@mail.tele.dk

2. Hazards identification	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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3. Composition/information on ingredients				
Einecs no.	CAS No.	Substances	Classification	w/w%
--	83164-33-4	Diflufenican	R52/53	43 (500 g/l)

Please see section 16 for the full text of the R-phrases

4. First aid measures	
Inhalation Seek fresh air.	
Ingestion Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.	
Skin Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.	
Eyes Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.	
Other information When obtaining medical advice, show the safety data sheet or label. Symptoms: See section 11.	

5. Fire-fighting measures	Extinguish with powder, foam, carbon dioxide or water mist. Do not use water stream, as it may spread the fire. Use water or water mist to cool non-ignited stock. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.
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6. Accidental release measures	Use the same personal protective equipment as stated in section 8. Prevent spillage from entering drains and/or surface water. Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. See section 13 for instructions on disposal.
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7. Handling and storage	Handling See section 8 for information about precautions for use and personal protective equipment. Storage Keep out of reach of children. Do not store together with food, drink and animal feeding stuffs. Keep in tightly closed and original container. Store frost-free. Shake thoroughly before opening.
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144 mm



OB-nr.:	30702357	Godkendt	<input type="checkbox"/>
Deres nr.:		Godkendt med retfelse	<input type="checkbox"/>
Dato:	2007.06.14	Ny korrektur fremsendes	<input type="checkbox"/>
Etiket str.:	175x135 mm		
Farver:	Sort + P reflex blå		
Korrektur nr.:	2		Sign.

LIMSIDE

147 mm

8. Exposure controls/ personal protection

Precautions for use Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work.
Respiratory protection Preparation: Not required. Application by tractor, spreader bar, closed cabin, ventilation system off: Not required.
Gloves and protective clothing Preparation: Wear boots and gloves. Application: Wear overtrousers, boots and gloves.
Eye protection Preparation: Wear face shield. Application by tractor, spreader bar, closed cabin, ventilation system off: Not required.
Occupational exposure limits Contains no substances subject to reporting requirements.

9. Physical and chemical properties	Density: 1,19 g/ml Appearance: Suspension
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10. Stability and reactivity	The product is stable when used in accordance with the supplier's directions.
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11. Toxicological information	Acute Inhalation The product does not release hazardous vapours. Ingestion Ingestion may cause discomfort. Skin contact May cause slight irritation. Eye contact May cause eye irritation. Long-term effects None known.
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12. Ecological information	Avoid discharge to drain or surface water. Ecotoxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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13. Disposal considerations	Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Wash out container thoroughly, empty washings into spray tank, and dispose of safely. EWC code: Depends on line of business and use, for instance 02 01 08 agrochemical waste containing dangerous substances. Absorbent/cloth contaminated with the product: EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.
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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.

ACTIVITY
IT Diflufenican is a contact, foliar herbicide and soil-acting herbicide with good residual activity. It is active against a range of broad-leaved weeds. Diflufenican is taken up from the soil solution by the roots of weeds; hence soil moisture is necessary for good residual activity. Diflufenican becomes bound onto soil organic matter and progressively loses activity in soils containing 5-10% or more organic matter.

Crop	Dose	Time of application	Remarks
Winter rye Triticale	0.12-0.2 l/ha	Apply only pre-emergence of the crop.	Adjust the dose to the level of weed control required – see WEED SUSCEPTIBILITIES.
Winter wheat Winter barley	0.12-0.25 l/ha	Winter wheat Apply pre-emergence of the crop or early post-emergence from the 1-expanded leaf stage. Winter barley Apply early post-emergence of the crop from the 1-expanded leaf stage.	Normally apply in tank-mixture with a herbicide having both supplementary and complementary activity to give a broad spectrum of weed control. An approved formulation of isoproturon is a suitable partner product in many situations. A yellowing of the crop leaves may be seen after spraying but this is usually of short duration without permanent effect upon future growth.

VARIETIES
All current varieties of winter wheat and winter barley may be treated with IT Diflufenican. Only certain varieties of winter rye and triticale may be treated, as follows:
Winter rye: Amino, Ashill Pearl, Dominant, Lovaszpatonai, Rheidol, Tetrakorow.
Triticale: Aquarius, Bokolo, Clercal, Lasko, Newton, Salvo, Torrs.

Note that varieties may be restricted by the selected partner product; isoproturon has certain varietal restrictions.
GENERAL CONDITIONS RELATING TO USE
1. Clear or plough down at least 15cm all previous crop residues before preparing the seedbed.
2. Prepare a fine, firm seedbed free of clods.
3. Drill the seed at 25mm, measured after covering and consolidation. Do not treat broadcast sown crops.
4. Do not treat crops on Sands or Very Light soils (Soil texture 85 system) or on gravelly or stony soils as crop damage may result.
5. Residual activity is increasingly reduced on soils containing more than 5 % organic matter. Do not use on soils containing 10% or more organic matter.

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146 mm

14. Transport information

The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

15. Regulatory information	Hazard designation: Contains Diflufenican (500 g/l) R-phrases Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (R52/53) S-phrases Keep out of the reach of children. (S2) Keep away from food, drink and animal feeding stuffs. (S13) Wear suitable gloves and eye/face protection. (S37/39) Avoid release to the environment. Refer to special instructions/safety data sheet. (S61) Keep only in the original container. (S49) Other labelling Read all other safety precautions and directions for use before use. To avoid risks to man and the environment, comply with the instructions for use. Safety data sheet available for professional users on request. Chemical safety assessment Chemical safety assessment has not been performed.
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16. Other information	Restrictions on use For use only as an agricultural herbicide. Training requirement No special training is required, but a thorough knowledge of this safety data sheet should be a prerequisite condition. Line of business Agriculture and horticulture Packaging 1 litre jerricans Sources used ADR 2007 edition and IMDG 2006 edition. SI 2002/1689 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002, last amended by Regulations 2005 (S.I. 2005 No. 2571) + Directive 2006/6/EC + regulation 1907/2006/EC. Approved Supply List (ninth edition): Information approved for the classification and labelling of substances and preparations dangerous for supply. Chemicals (Hazard Information and Packaging for Supply) Regulations 2002, 29. ATP. EH40/2005 Workplace exposure limits. Commission decision as regards the list of wastes 2001/118/EC. The compilation of safety data sheets (third edition) 2002. This product is approved under the Control of Pesticides Regulations 1986. Amended by PSD letter of approval of 14/08/2006. Other information This safety data sheet was prepared from information provided by the supplier about physical/chemical properties and all ingredients in the product. Full text of the R-phrases that are stated in section 3. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Amendments have been made in the following sections 1,2,3,4,11,13,15,16.
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- Avoid post-emergence application if frost has recently occurred or is forecast. Frost around the time of application may cause chlorosis and check growth. Early sown crops, e.g. September drilled, may be prone to damage should application take place during a period of rapid growth in the autumn.
- Do not treat any crop suffering from pest or disease attack, poor drainage or waterlogging, prior herbicide damage or generally lacking vigour from any cause.
- Crops for under-sowing or already under-sown cannot be treated.
- Adequate rainfall after application is essential for soil activity but rainfall too heavy shortly after application may cause crop damage, particularly on stony soils.
- The appearance of symptoms of herbicidal activity upon weeds is not immediate but takes time to develop; symptoms of control occur more rapidly under mild conditions conducive to plant growth but are slowed when the weather is cool.
- Do not roll or harrow emerged crops within 7 days before spraying or at any time after spraying.

SPRAY APPLICATION
Apply IT Diflufenican as a MEDIUM spray (BCPC) in 150-300 l/ha water. For post-emergence application use sufficient water to enable complete penetration of the crop to ensure thorough even coverage of the weeds. Avoid spray drift out of the area being treated. Do not spray in windy weather. Avoid overlapping spray swaths.

SPRAY MIXING
Shake the container thoroughly before pouring. Add the required quantity of IT Diflufenican to the bulk of the water in the spray tank under agitation. Top up the spray tank with water and keep under constant agitation until completion of spraying. Thoroughly clean all equipment after use, employing a wetting agent or proprietary tank cleaner.

COMPATIBILITY
IT Diflufenican is compatible in tank-mix with one of the approved products listed below. When tank-mixing IT Diflufenican with a partner follow the Directions for Use and Precautions of the partner product together with those of this label. Keep the mixture under constant agitation and use immediately after mixing.

Isoproturon	MAPP 11639
Deltamethrin	MAPP 07172

WEED SUSCEPTIBILITIES
Weeds susceptible to a pre-emergence or early post-emergence application of IT Diflufenican under good soil and weather conditions are indicated below. The indication of 'susceptible' may not amount to full control at the maximum doses permitted under the Statutory Conditions; when necessary supplementary activity must be supplied by a suitable partner product in tank-mixture.

	Weeds susceptible to IT Diflufenican at 0.12 l/ha	Weed susceptible to IT Diflufenican at 0.25 l/ha
Charlock	-	to 3-4 true leaves
Chickweed, common	to 2 true leaves	to 4 true leaves
Dead-nettle, henbit	-	pre-emergence
Field-speedwell, common	-	to 4-6 true leaves
Forget-me-not, field	to 1 true leaf	to 4 true leaves

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145 mm

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Batch No:	

06/07

Weeds susceptible to IT Diflufenican at 0.12 l/ha	Weed susceptible to IT Diflufenican at 0.25 l/ha
-	to cotyledon stage
-	to cotyledon stage
-	to 2 true leaves
-	to 4-6 true leaves
-	to cotyledon stage

Knotgrass
-
Mayweed spp.
-
Pansy, field
-
Shepherd's-purse
-
Oilseed rape volunteers
-

FOLLOWING CROPS
Crop failure
Ploughing 15 cm deep and thorough cultivation must precede the sowing of any replacement crop in the event of a crop failure for any reason following an application. Only winter barley or winter wheat may be re-sown immediately. At least 5 months must have elapsed since application before the sowing of the following crops in the spring: spring wheat, spring barley, oilseed rape, edible brassicas, field beans, peas, potatoes or sugar beet. The sowing of any other crop is restricted until at least the following autumn - see below.

Autumn cropping, post-harvest
After normal harvest of a treated crop no restrictions apply to the sowing of winter cereal crops. A restricted list of other crops, namely field beans, leaf brassicas, winter oilseed rape, and sugar beet seed crops, may be sown or planted with the condition that the land must first be ploughed 15 cm deep ensuring complete inversion of the furrow slice; plant only these named crops. Cotyledons of emerging oilseed rape and brassicae may be slightly discoloured, but this is quickly outgrown and does not normally affect later growth. Autumn-sown broad-leaved crops must not be direct-drilled or broadcast-sown.

Spring cropping, post-harvest
After normal harvest of a treated crop no restrictions apply to the sowing of spring cereal crops. A restricted list of other crops, namely oilseed rape, edible brassicas, field beans, peas, potatoes or sugar beet, may be sown or planted with the condition that the land must first be ploughed 15 cm deep ensuring complete inversion of the furrow slice; plant only these named crops.

FREQUENT USE
When IT Diflufenican or other products containing diflufenican have been applied to successive cereal crops, residual amounts of diflufenican will increase in the soil. In these circumstances, ploughing with complete inversion of the furrow must take place before planting any subsequent non-cereal crop. Even where ploughing is carried out, there is a risk of damage to following crops of leeks, onions and related species, as well as clover. If diflufenican-containing products are applied over several years, other crops may be affected. Users who lease their land to growers of these crops should not use diflufenican-containing products in successive years before leasing-out the land.

Conditions of Supply
All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or of the weather conditions before, during and after application, which may affect the performance of the goods, 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 or resellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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144 mm

135 mm

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