

(Label main area front panel)



BROADSWORD®

MAFF 09140

An emulsifiable concentrate (EC) formulation containing 200g/litre (19.34% w/w) of 2,4-D acid equiv. as the ethyl hexyl ester, 85g/litre (8.22% w/w) of dicamba and 65g/litre (6.29% w/w) of triclopyr acid equiv. as the butoxyethyl ester for use as a selective broad-leaved weed herbicide in grassland and for scrub control in forestry and uncropped areas.

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

SAFETY PRECAUTIONS

Precautions marked * a legal requirement

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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
 - *WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when applying by hand held equipment and handling contaminated surfaces.
 - *WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment.
- *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.
- TAKE OFF IMMEDIATELY all contaminated clothing.
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.
- WASH CONCENTRATE from skin or eyes immediately
- AVOID ALL CONTACT BY MOUTH.
- 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 and show this label, where possible.

Consumer Protection

- DO NOT USE ON FOOD CROPS.

Environmental protection

- *DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.

- WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.
- *KEEP LIVESTOCK OUT of treated areas for at least 7 days. If poisonous weeds such as ragwort are present DO NOT cut or graze until all foliage has died and become unpalatable.
- DO NOT roll or harrow grassland during seven (7) days before or after treatment.
- DO NOT cut treated grassland for at least fourteen (14) days after treatment.

Storage and disposal

- KEEP AWAY FROM FOOD, DRINK OR ANIMAL FEEDINGSTUFFS
- KEEP OUT OF REACH FROM 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

PROTECT FROM FROST.	Shake well before use.
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NET CONTENTS: 5 LITRES *For Batch Number and Manufacturing Date see container.*

Manufacturer & Approval holder:	Marketed by:
Chimac-Agriphar S.A. Rue de Remory 26, B-4102 Ougrèe Seraing, Belgium Tel: 00 32 43 859711 Fax: 00 32 43 859749	United Phosphorus Limited Hall Lane, Rookery Bridge, Sandbach, Cheshire. CW11 3QQ Tel: 01270 766666 Fax: 01270 766788

This label is compliant with the CPA Voluntary Initiative Guidance

IN CASE OF TRANSPORT OR TOXIC EMERGENCY PHONE 01270 766666 (24hr contact)

-----*(Start of label main area back panel)*-----

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HARMFULL



**DANGEROUS FOR
THE ENVIRONMENT**

HARMFULL IF SWALLOWED.

MAY CAUSE LUNG DAMAGE IF SWALLOWED.

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

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

FLAMMABLE.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Keep out of the reach of children

Keep away from food, drink and animal feeding stuffs.

Avoid contact with skin.

This material and its container must be disposed of in a safe way.

Avoid release to the environment. Refer to special instructions / safety data sheets.

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

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED * IS A LEGAL REQUIREMENT

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL AND FORESTRY HERBICIDE

Crops/situations: Permanent Grassland, rotational grassland, farm forestry, forest, and areas not intended to bear vegetation, green cover on land temporarily removed from production and natural surfaces not intended to bear vegetation.

Crops	Maximum individual dose	Maximum total dose	Maximum number of treatments	Latest time of application
Permanent grassland & rotational grass, and areas or surfaces not intended to bear vegetation.	5.0 L/ha or 20ml/L water	10 litres/ha/yr	2 2	Apply to actively growing weeds before flower buds have opened or at the rosette stage.
Farm forestry, forest (Foliage spray)	75ml/L water	-	2	End of summer
Farm forestry, forest (Cut and stump spray)	150ml/L water	-	2	After felling up to the start of re-growth.

Other specific restrictions:

- When using a knapsack sprayer:
 - a) For foliar applications, the maximum concentration must not exceed 75ml product/litre water.
 - b) For cut and stump applications, the maximum concentration must not exceed 150ml product/litre water.
- When using a tractor mounted weed-wipe the maximum concentration must not exceed 1 part product: 3 parts water.
- When using hand held ropewick guidance, the maximum concentration must not exceed 1 part product: 8 parts water.

READ ALL OTHER SAFETY PRECAUTIONS & DIRECTIONS FOR USE BEFORE USE

DIRECTIONS FOR USE

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 OR WARNINGS

- Do not spray where clovers or other legumes are an important part of the sward.
- Broadsword may be applied to grassland that has been established for a minimum of twelve months.
- DO NOT ALLOW SPRAY TO DRIFT into greenhouses, or onto other agricultural or horticultural crops, amenity plantings or gardens.
- DO NOT use in glasshouses.
- Broadsword contains an ester formulation and vapours may be liable to drift under hot conditions.
- Assess the risk to plants in the vicinity before spraying.
- Desired amenity species may be damaged if they have roots extending into the treated area.
- Do not allow spray applications to come into any contact with desired broad-leaved trees. Although when completely dormant most species of conifers are not susceptible to BROADSWORD, contact with the spray should be avoided.
- DO NOT treat grass crops intended for seed production.
- DO NOT sow any crop into a sward treated with Broadsword for at least 6 weeks after application.
- The growth of certain grass species such as bents and Yorkshire Fog may be temporarily suppressed by the application of Broadsword.
- Docks and other weeds sprayed with Broadsword may become increasingly palatable to stock and may therefore be preferentially grazed.

WEEDS CONTROLLED

Broadsword controls or suppresses a wide range of perennial weeds. Broadsword may be applied at between 2.0 - 5.0 litres per hectare, depending on the weed species present, and the required level of control. Repeat applications in the same season or following seasons may be required for long-term control.

Definitions:

- Susceptible: Consistently high levels of control obtained under good growing conditions.
- Moderately Susceptible: Top growth usually killed and a useful measure of long-term control obtained under good growing conditions.
- Moderately Resistant: A variable effect on top growth according to growing conditions. Little long term control likely.

Weeds Controlled at 5.0 litres/ha^[1]

Susceptible	Moderately Susceptible
Creeping Thistle	Broad-leaved Dock
Common Nettle	Common Daisy
Plantains	Common Ragwort
Spear Thistle	Creeping Buttercup
	Curled Dock
	Dandelion

[1] Common Nettle is SUSCEPTIBLE at 3.0 litres/ha. Common Daisy is MODERATELY RESISTANT at 3 litres/ha, all other species shown above are MODERATELY SUSCEPTIBLE at 3.0 litres/ha

A reduced rate of 2.0 litres/ha may be used for a check on top growth of perennial weeds, or as a follow-up treatment applied in the same season as an earlier treatment. If used prior to hay or silage-making, this should be applied at least one month before cutting for the full effects to occur.

Common Ragwort will require spraying over a minimum of two years for complete control. For better control of Common Ragwort, up to 2.0 litres/ha of Dioweed 50 or other approved formulations containing 500 g/litre 2,4-D may be added. Broad-leaved Dock, Creeping Buttercup and Curled Dock may require repeat treatment if re-growth occurs.

Apply BROADSWORD to actively growing weeds that have well developed foliage, but before the flower buds have opened, usually in late spring or summer but not when rain is imminent nor in periods of drought or very hot or cold weather. Control may be reduced if rain falls within 2 hours of application. For best results treat Nettles when they are within the range 30 - 45 cm high. Other broad-leaved weeds are best treated when they have a well-developed 'rosette' of leaves.

Control Of Woody Weeds

Foliage Applications

Apply BROADSWORD after the first flush of spring growth has occurred, typically between July and September, with a knapsack sprayer equipped and calibrated to give a FINE spray, and apply to all foliage to be controlled to the point of run-off. More than one application may be needed for complete control of all recommended species. Do not treat when senescence is evident.

Weed Species and Height Dilution Rate

- Brambles: 10ml of BROADSWORD per litre water
- Broom, Gorse (up to 1 metre high), 20ml of BROADSWORD per litre water
Ash, birch, buckthorn, chestnut, hazel, oak, sycamore (between 1 - 2 metres high).
- Japanese knotweed (1-2 metres high) 65ml of BROADSWORD per litre water
- Rhododendron (1-2 metres high) 75ml of BROADSWORD per litre water

Where BROADSWORD has been applied at rates of up to 20 ml per litre of water, do not replant in the treated area until 1 month has elapsed after treatment. Where BROADSWORD has been applied at 65 - 75 ml per litre of water, do not replant until 3 months have elapsed after treatment.

Tree stump treatments

Apply BROADSWORD after felling up to the start of re-growth with a knapsack sprayer to apply a medium spray to the outer rim of the stump. It is not necessary to treat the central heartwood of the stump. A suitable dye may be added to the diluted spray to indicate treated stumps. Hazel and Oak are less well controlled than other species.

Use 150 ml of BROADSWORD per litre of water and then apply at the rates shown in the following table, according to the approximate size of the tree stump (equivalent to 100 ml diluted spray/50cm diameter cut stump). Use the diluted spray immediately; do not keep diluted spray for any length of time e.g. overnight.

Tree Stump Diameter	Rate of DILUTED BROADSWORD
0.1m (4")	20 ml diluted spray
0.2m (8")	40 ml diluted spray
0.4m (16")	80 ml diluted spray
0.8m (30")	160 ml diluted spray
1.0m (40")	200 ml diluted spray

Do not replant within one metre of treated tree stumps until 3 months after application; areas beyond one metre of the treated stump may be planted at any time. Any re-growth from treated stumps should be treated with a spray of BROADSWORD to the growing foliage.

MIXING AND SPRAYING

Before mixing, ensure that the spraying equipment has been thoroughly decontaminated from any previous use, and that it has been equipped and calibrated to apply the recommended spray volume and spray quality.

Shake the container well before use.

Place half the required amount of water in the spray tank, followed by the recommended quantity of BROADSWORD. In the case of using the entire container of BROADSWORD, rinse the container thoroughly and add the washings to the spray tank. Add the remaining water requirement to the spray tank. When using overall application with a tractor sprayer, maintain agitation throughout the mixing and spraying operation. When using a knapsack sprayer, agitate the container before use.

After use, thoroughly decontaminate the sprayer.

Overall Application

This method is recommended when weed populations are high and there is a large area to be treated.

Apply BROADSWORD in 200 to 400 litres of water per hectare, as a MEDIUM spray at a pressure

of 3 bar. Where weed foliage is dense or tall, use the higher volume of water. Make sure that

all foliage to be controlled is covered by the spray.

Knapsack Application

This method is recommended for spot treatment of weeds, e.g. clumps of Nettles, Common Ragwort, Docks or other weeds. Add 10 ml of BROADSWORD per litre of water and apply as a medium spray to just before run-off occurs. Alternatively, add 20ml of BROADSWORD per litre of water and apply as a fine spray. Where large areas are to be treated, low volumes are preferred.
DO NOT USE A FINE SPRAY UNDER CONDITIONS WHERE DRIFT IS LIKELY TO OCCUR.

Handlance Application

Weeds should be sprayed until just before run off occurs.

Ropewick application

Under certain conditions application using a Ropewick applicator to actively growing nettle and docks before flower bud stage may be preferred although weed control is unlikely to be as effective as a sprayer application.

Rate of use:

Tractor mounted: 1 part BROADSWORD with 3 parts water

Hand-held: 1 part BROADSWORD with 8 parts water

Thoroughly mix product in water and allow wick to become completely wet before commencing application.

Weed control will only be achieved where weeds are smeared by the wick applicator, therefore ensure wick is at a height where it will touch the weeds but not the sward. Make the application in 2 passes going one way then back the other.

SAFETY PRECAUTIONS

Precautions marked * a legal requirement

Operator protection

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- WASH CONCENTRATE from skin or eyes immediately
- AVOID ALL CONTACT BY MOUTH.
- 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 and show this label, where possible.

Consumer Protection

- DO NOT USE ON FOOD CROPS.

Environmental protection

- *DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.
- WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.
- *KEEP LIVESTOCK OUT of treated areas for at least 7 days. If poisonous weeds such as ragwort are present DO NOT cut or graze until all foliage has died and become unpalatable.
- DO NOT roll or harrow grassland during seven (7) days before or after treatment.
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Storage and disposal

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- KEEP OUT OF REACH FROM CHILDREN
- KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place
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Section 6 of the Health and Safety at Work Act

Additional Product Safety Information (This section does not form part of the product label under the Control of Pesticide Regulations 1986)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Control of Pesticides Regulations.

The information on this label is based on the best available information including data from test results

SAFETY DATA SHEET

This Safety Data Sheet Does not form part of the label approved under the Control of Pesticides Regulations 1986

Following the instructions on the label for the specified uses should ensure that BROADSWORD is used safely and efficaciously for those uses.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: BROADSWORD
Synonyms: 2,4D, DICAMBA, TRICLOPYR (200:85:65 g/litre)
UK REG NO: MAFF 09140
description of product: Herbicide for agriculture use
Company name: United Phosphorus Limited
Hall Lane
Rookery Bridge
Sandbach
Cheshire
CW11 3QQ
Tel: 01270 766666
Fax: 01270 766788

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: DICAMBA (ISO) 1-10%
EINECS: 217-635-6 CAS: 1918-00-9
[Xn] R22; [Xi] R41; [-] R52/53

- LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 50-70%
EINECS: 265-199-0 CAS: 64742-95-6
[F+] R12; [Xi] R38; [N] R51/53; [Xn] R65
- TRICLOPYR BUTOXYETHYL ESTER 1-10%
CAS: 64470-66-6
[Xn] R22; [Xi] R38; [Sens.] R43; [N] R50
- 2,4 D-ISOOCTYL ESTER 10-25%
EINECS: 34704-125 CAS: 25188-26-7
[Xn] R22; [Xi] R41; [Sens.] R43; [N] R51/53

3. HAZARDS IDENTIFICATION

Main hazards: Flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: Headaches or general malaise may result.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray. Carbon dioxide. Dry chemical powder.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Avoid contact with skin, eyes, clothing and inhalation of vapours, aerosols or dusts. Wear suitable protective clothing, boots, gloves, eye and face protection.

Environmental precautions: Contain the spillage using bunding. Do not discharge into drains or rivers.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a suitable container.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. When using do not eat or drink

Storage conditions: Keep away from Heat Store in cool, well ventilated area. Keep away from sources of ignition.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area. Use all usual precautionary measures for handling chemicals.

Respiratory protection: Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: Gloves (solvent-resistant).

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Brown

Odour: Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Dispersible

Viscosity: Non-viscous

Boiling point/range°C: >167

Flash point°C: 41

Relative density: 1.035 @20°C

pH: 2.67

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Direct sunlight.
Materials to avoid: Oxidising agents.
Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: BROADSWORD
IHL (Triclopyr) RAT LD50 >256 mg/l
ORL(Triclopyr) RAT LD50 900 mg/kg
SKN(Triclopyr) RAT LD50 2000 mg/kg

Hazardous ingredients: DICAMBA (ISO)
ORL MUS LD50 700 mg/kg
ORL RAT LD50 1039 mg/kg
SKN RAT LD50 >1 gm/kg
• LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM),
LIGHT AROM.
ORL RAT LD50 8400 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Ecotoxicity: BROADSWORD
Fish (Solvent) 96H LC50 1 mg/l
FISH RAINBOW TROUT 96H LC50 117 mg/l
FISH(Triclopyr) 96H LC50 0.7 mg/l

Mobility: Volatile.

Persistence and degradability: Rapidly biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: D10 Incineration on land.
Disposal of packaging: Arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no:	3295	ADR Class:	3
Packing group:	III	Classification code:	F1
Shipping name:	HYDROCARBONS, LIQUID, N.O.S. (SOLVENT)		
Labelling:	3	Hazard ID no:	30



IMDG / IMO

UN no:	3295	Class:	3
Packing group:	III	EmS:	F-E, S-D
Marine pollutant:	YES	Labelling:	9 + MARINE POLLUTANT

IATA / ICAO

UN no:	3295	Class:	3
Packing group:	III	Subsidiary risk:	None
Packing instructions:	309		
Labelling:	3		

15. REGULATORY INFORMATION

- Hazard symbols:** Harmful.
Dangerous for the environment.
- Risk phrases:**
R10: Flammable.
R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.
- Safety phrases:**
S2: Keep out of the reach of children.
S13: Keep away from food, drink and animal feeding stuffs.
S20/21: When using do not eat, drink or smoke.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye / face protection.
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: Risk phrases used (in section 2) for formulation ingredients are explained below.

Risk phrases used in s.2: R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R12: Extremely flammable.

R38: Irritating to skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall

be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[final page]

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Keep away from food, drink and animal feeding stuffs.

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CONDITIONS OF SUPPLY

All goods supplied are manufactured to our usual standard of quality, but all conditions and warranties, statutory or otherwise as to the quality or fitness for any purpose of our goods are excluded and no liability (save as to the liability to replace defective goods as herein provided) will be accepted by us for any damage, loss or injury whatsoever arising out of or in connection with the goods or drums or other containers thereof, or from the storage, handling application or use thereof. In the case of alleged defects in the manufacture of goods proved by the customer to our satisfaction we will at our expense replace or otherwise remedy the defective goods. In particular liability in tort arising in or out of the manufacture, distribution, sale or use of the product is hereby expressly excluded. All our goods are sold and supplied on the terms contained in our standard conditions of sale (of which the above is part) which shall prevail over any other terms and which may be inspected on request. United Phosphorus Limited will be under no liability for any loss or damage resulting from the manner of use of their products other than in accordance with the label recommendations, which may not be varied, amended or added to except in writing by United Phosphorus Limited. BROADSWORD is a registered Trademark of United Phosphorus Limited. Other brand names used in this guide are trademarks of other manufacturers, which propriety rights may exist.

-----*(End of label leaflet)*-----
