THRUST®

MAPP 15408
PCS No 04520

A soluble concentrate containing 344 g/L 2,4-D and 120 g/L dicamba as the dimethylamine salt.

For the selective control of annual and perennial broad leaved weeds in Established Agricultural Grassland and Amenity Grassland.

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

Contents: 5 L

Batch No.: XXXX

PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY

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Technical Helpline telephone number +44 (0)1274 694714
24-hour emergency telephone number +44 (0)1274 696603

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE

Crop	Maximum Individual Dose	Maximum Total Dose	Latest time of application
Grassland	3.5 L product/ha	3.5 L/ha per year	before the crop is 25cm high
Amenity grassland	3.5 L product/ha	7.0 L/ha per year	before the crop is 25cm high

Method of Application: Tractor mounted / trailed sprayer / Knapsack

Other specific restriction
Livestock must be kept out of treated areas for at least 2 weeks following treatment and until poisonous weeds such as ragwort have died and become unpalatable.

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 Information



DANGER

Harmful if swallowed
Causes serious eye damage
May cause an allergic skin reaction
Toxic to aquatic life with long lasting effects

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Immediately call a POISON CENTER or doctor/physician
Avoid release to the environment.
Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

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Additional Safety Phrase:
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.

SAFETY PRECAUTIONS – UK only

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 GLOVES when handling contaminated surfaces or applying by hand-held equipment.

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

WHEN USING DO NOT EAT DRINK OR SMOKE
IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Environmental Protection

Livestock must be kept out of treated areas for at least 2 weeks following treatment
IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.
TOXIC TO AQUATIC ORGANISMS, may cause long term adverse effects in the aquatic environment.
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 man and the environment, comply with instructions for use
RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Directions for use.
Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.
WASH OUT CONTAINER THOROUGHLY, and dispose of safely.
KEEP OUT OF REACH OF CHILDREN.
This material and its container must be disposed of in a safe way.
DO NOT RE-USE CONTAINER for any 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

DO NOT graze grass for at least 14 days after spraying.
DO NOT mow or roll four days before or after application. The first four mowings after treatment must be composted for at least 6 months before use – UK only.
DO NOT treat newly established grass less than 1 year old.
DO NOT treat grass crops intended for seed production
DO NOT treat grass suffering from drought, disease or other adverse factors.
DO NOT roll or harrow crops for 7 days either before or after application of THRUST.
DO NOT apply when grassland is flowering.
Avoid spray drift onto neighbouring crops and all broad-leaved plants outside the target area. Do not spray in windy weather. Beets, all brassicas (including oilseed rape, Swedes and turnip) lettuce, sunflowers, onions, peas, potatoes, tomatoes, cucumbers, all fruit crops (including vines) and ornamentals are particularly susceptible and may be damaged by spray drift.
Avoid spraying within 5 m of the field boundary to reduce effects on non-target insects or other arthropods.

WEEDS CONTROLLED

Apply when the majority of annual weeds are at the seedling stage.

Susceptible
Creeping Thistle
(Plants upto 50cm high)

Moderately Susceptible
Broad-leaved Dock Curled Dock Creeping Buttercup
Common Ragwort

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

Ragwort control
Spray when the majority of plants are in the rosette stage and growing vigorously in the autumn or spring but before the flower spines start to grow. Fields for hay or silage the following spring should be sprayed in the preceding autumn. Fields to

be grazed should be treated in the spring. Common ragwort will require spraying over a minimum of 2-years for complete control.
Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.

TANK-MIX – UK only

THRUST + Nufarm Cropoil (ADJ0447).
Improvement in the level of control of Common Ragwort to Susceptible can be achieved by mixing 3.5 L/ha THRUST with 1.0% Nufarm Cropoil

CROP SPECIFIC INFORMATION

Grassland

Maximum application rate:	3.5 L product/ha
Maximum total dose:	3.5 L product/ha
Time of application:	April to September
Water volumes:	100 - 400 L/water/ha For use in knapsack sprayer the minimum water volume is 200 L/ha.

Amenity grassland

Maximum application rate:	3.5 L/product/ha
Maximum total dose:	7.0 L product/ha
Time of application:	April to September
Interval between applications:	Six weeks.
Water volumes:	100 – 400 L/water/ha. For use in knapsack sprayer the minimum water volume is 200 L/ha.

MIXING AND SPRAYING

Before use ensure that the spraying equipment has been thoroughly cleaned. Half-fill the spray tank with clean water. With the contents of spray tank under re-circulation, add the measured quantities of THRUST through the filter. Top up the tank with water to the required level and maintain re-circulation until the tank is sprayed out.

Apply the recommended quantity of THRUST through a conventional hydraulic sprayer using a MEDIUM spray to cover the weed leaves evenly and thoroughly.

After each days use, wash out with water and wetting agent. Wash out again with water, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.

Avoid spray drift onto neighbouring crops and all broad-leaved plants outside the target area. Do not spray in windy weather. Beets, all brassicas including oilseed rape, lettuce, peas, potatoes, tomatoes, all fruit crops and ornamentals are particularly susceptible to 2,4-D and may be damaged by spray drift.

Knapsack Application

This method is recommended for spot treatment of weeds and patches of Docks. Apply as a medium spray to just before run-off occurs.

Size of knapsack	Amount of THRUST	Amount of water
5 Litre	45mL	4.955 Litres
10 Litre	90mL	9.91 Litres
20 Litre	180mL	19.82 Litres

WEATHER AND GROWING CONDITIONS

Apply to a dry crop when rain is not forecast for at least 12 hours. Optimum results are obtained when the weeds are actively growing under good soil and weather conditions. Reduced weed control may be obtained during drought or cold weather. If rain falls shortly after application, the effect of THRUST may be reduced.

RESISTANCE MANAGEMENT

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 to be resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on product use at the discretion of the applicant.

ACKNOWLEDGEMENTS

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TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

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Insert MSDS prior to printing