

Thrust

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.

PRODUCT BENEFITS

- Unique combination of active ingredients to maximise control of Ragwort.
- Specific label recommendation with Nufarm Cropoil to further improve control of Ragwort.
- Control of other important perennial weeds in grassland.
- Amenity grassland recommendation.

LERAP category: Unclassified

Pack size: 5 litres

Storage: PROTECT FROM FROST



IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/AMENITY HERBICIDE.

Crop	Maximum individual dose	Maximum total dose	Latest time of application
Grassland	3.5 l/ha	3.5 l/ha	Before the crop is 25 cm high
Amenity grassland		7.0 l/ha	

Other specific restriction

- Livestock must be kept out of treated areas for at least two 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.

MAPP 15408

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

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 six months before use.

DO NOT treat newly established grass less than one 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 seven 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 five metres 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

Thistle, creeping (plants up to 50 cm high)

Moderately susceptible

Buttercup, creeping

Dock, broad-leaved

Dock, curled

Ragwort, common

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 two years for complete control.

TANK MIX

THRUST + Nufarm Cropoil (ADJ 0447).

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

Crop

Grassland

Maximum dose rate

3.5 l/ha.

Maximum total dose

3.5 l/ha.

Timing

April to September

Water volumes

100–400 litres of water per hectare. For use in knapsack sprayer the minimum water volume is 200 litres per hectare.

Amenity grassland

Maximum application rate

3.5 l/ha

Maximum total dose

7.0 l/ha

Time of application

April to September

Interval between applications

Six weeks.

Water volumes

100–400 litres of water per hectare. For use in knapsack sprayer the minimum water volume is 200 litres of water per hectare.

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 the 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 day's 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, e.g. clumps of Nettles, Common ragwort, Docks or other weeds. Apply as a MEDIUM spray to just before run-off occurs.

Size of knapsack	THRUST	Water volume
5 litres	45 ml	5.0 litres
10 litres	90 ml	10.0 litres
20 litres	180 ml	20.0 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 Nufarm UK.

THRUST

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

**HARMFUL****DANGEROUS FOR THE ENVIRONMENT**

HARMFUL IF SWALLOWED.
IRRITATING TO THE RESPIRATORY SYSTEM.
RISK OF SERIOUS DAMAGE TO EYES.
MAY CAUSE SENSITISATION BY SKIN CONTACT.
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

DO NOT BREATHE SPRAY.

AVOID CONTACT WITH SKIN.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

WEAR SUITABLE GLOVES.

WEAR EYE/FACE PROTECTION.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

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.

Contains 2,4-D: may produce an allergic reaction.

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

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 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

KEEP LIVESTOCK out of treated areas for at least two weeks following treatment until foliage of any poisonous weeds, such as Ragwort, have died and become unpalatable.

TOXIC TO AQUATIC ORGANISMS, may cause long term adverse effects in the aquatic environment.

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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.