

160 mm

TOMAHAWK

GROUP

4

HERBICIDES

Contains 200 g/L (20.6% w/w) fluroxypyr as an emulsifiable concentrate.

TOMAHAWK is a translocated herbicide for the control of broad leaved weeds, especially cleavers in: Barley, Forage and Grain Maize, Grassland, Oats, Rye, Triticale and Wheat.

Safety Information

DANGER

Flammable liquid and vapour

May be fatal if swallowed and enters airways

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

Very Toxic to aquatic life with long lasting effects

Contaminated work clothing should not be allowed out of the workplace.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

If skin irritation or a rash occurs: Get medical advice/attention.

If eye irritation persists get medical advice/attention.

Store in a well-ventilated place. Keep cool.

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.

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



PCS No. 06840

UFI No. GUC3-GUDJ-2JA8-DXRR

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop or Use :	Maximum individual Dose (L/product/ha)	Maximum total Dose (L/product/ha)	Latest time of application
Winter Wheat, Winter Barley	1.0	1.0	Before flag leaf sheath opening stage. (GS47)
Winter Oats, Rye, Triticale, Durum Wheat	1.0	1.0	Before second node detectable stage (GS32)
Spring Wheat, Spring Barley	0.75	0.75	Before flag leaf sheath extending stage (GS41)
Spring Oats	0.75	0.75	Before second node detectable stage (GS32)
Forage and Grain Maize (open crops)	1.0	1.0	Before seven leaves unfolded stage (GS17)
Grassland (Established)	2.0	2.0	-
Grassland (newly sown leys)	0.75	0.75	-

Method of application: Tractor mounted sprayer / Hydraulic nozzle applicator / knapsack

Other Specific restrictions:

1. A maximum total dose of 0.75 litres per hectare must be observed for applications made to cereals between crop emergence in the year of planting and 1st February in the year of harvest.

2. Livestock must be kept out of treated areas for at least 7 days following treatment IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'

3. Do not re-use container for any purpose.

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

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150 mm

140 mm

TOMAHAWK

GROUP 4 HERBICIDE


PEEL BACK FOR DIRECTIONS FOR USE LEAFLET

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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.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) and SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.

WHEN USING DO NOT EAT, DRINK OR SMOKE

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

AVOID CONTACT WITH SKIN

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

Environmental Protection:

Livestock must be kept out of treated areas for at least 7 days following treatment IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'

Bury or remove spillages

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).

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area

Storage and Disposal:

DO NOT RE-USE CONTAINER for any purpose

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.

WASH OUT CONTAINER THOROUGHLY, empty washings into a spray tank, and dispose of safely.

Authorisation Holder and Marketing Company

Nufarm UK Limited

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BD12 9EJ

United Kingdom

Technical Helpline telephone

number : +44 (0) 1274 694714

24-hour emergency telephone

number : +44 (0) 1274 696603

FOR PROFESSIONAL USE ONLY

PROTECT FROM FROST

SHAKE THOROUGHLY BEFORE USE

5 L

510010992_072023

Grow a better tomorrow

150 mm

140 mm

Safety information

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 If skin irritation or a rash occurs: Get medical advice/attention.
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 Store in a well-ventilated place. Keep cool.
 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.

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

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Spring Wheat, Spring Barley	0.75	0.75	Before flag leaf sheath extending stage (GS41)
Spring Oats	0.75	0.75	Before second node detectable stage (GS32)
Forage and Grain Maize (open crops)	1.0	1.0	Before seven leaves unfolded stage (GS17)
Grassland (Established)	2.0	2.0	-
Grassland (newly sown leys)	0.75	0.75	-

Method of application: Tractor mounted sprayer / Hydraulic nozzle applicator / knapsack

Other Specific restrictions:

1. A maximum total dose of 0.75 litres per hectare must be observed for applications made to cereals between crop emergence in the year of planting and 1st February in the year of harvest.
2. Livestock must be kept out of treated areas for at least 7 days following treatment IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'
3. Do not re-use container for any purpose.

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

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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.

GENERAL INFORMATION**Activity**

TOMAHAWK is a translocated herbicide taken up by the leaves of weeds. It is essential that the target weeds have full emerged before application and that good spray cover of the weed foliage is achieved. Weeds which emerge after application are not controlled.

Growing Conditions

Best results are achieved against small weeds growing actively under warm, moist conditions; these conditions are particularly important for the control of cleavers. Ensure that crops are vigorous with growth unaffected by frost, pests, disease, nutrient deficiency or moisture stress before treatment. Do not treat waterlogged crops or crops under drought stress.

CROP SPECIFIC INFORMATION

Cereals and forage and grain maize:

CEREALS			
Weeds Controlled:	Broad-leaved weeds		
Crops:	Winter and spring wheat, winter and spring barley, durum wheat, winter and spring oats, rye, triticale		
Other Specific Information:	Spring Application recommendations apply from March onwards		
Crop	Weeds controlled and latest stage of control	Time of Application for Crop	Application Rate
Autumn application to Winter Wheat and Winter Barley	Common chickweed (50 mm) Field forget-me-not (50 mm) Henbit dead-nettle (6 true leaves) Red dead-nettle (4 true leaves) Charlock (Up to 6 true leaves) Common poppy (Up to 6 true leaves) Groundsel (Up to 6 true leaves) Mayweed spp (Up to 6 true leaves) Shepherd's purse (Up to 6 true leaves) Speedwell spp (Up to 6 true leaves) Volunteer rape (Up to 6 true leaves)	From two leaf stage of the crop until the end of February (but not after first node detectable stage GS31). *Autumn applications will not control weeds which germinate after spraying. In most circumstances a follow-up spray will be necessary to obtain season long weed control	0.5 l/ha
	Cleavers (50mm)	Applications can be made to crops sown in the autumn	0.75 l/ha
Spring application to Winter Wheat and Winter Barley	Cleavers (flowering) Common chickweed (flowering) Black bindweed (To 6 leaves) Red dead-nettle (4 true leaves) Knotgrass (To 2 leaves)	From two leaf stage of the crop to before flag leaf sheath opening (GS47)	1 l/ha
Spring application to Winter Oats, Durum wheat, Rye and Triticale	Cleavers (flowering) Common chickweed (flowering) Black bindweed (To 6 leaves) Red dead-nettle (4 true leaves) Knotgrass (To 2 leaves)	From two leaf stage of the crop (GS12) to before second node detectable stage. (Before GS32)	1l/ha Do not tank mix with any herbicide for use on triticale.
Spring Wheat Spring Barley	Cleavers (Up to 10 cm) Common chickweed (Up to 10 cm) Black bindweed (Up to 4 leaves) Knotgrass (To 2 leaves)	From two leaf stage of the crop (GS12) to before flag leaf sheath extending stage (GS41)	0.75 l/ha

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CEREALS

Spring Oats	Cleavers (Up to 10 cm) Common chickweed (Up to 10 cm) Black bindweed (Up to 4 leaves) Knotgrass (To 2 leaves)	From two leaf stage of the crop (GS12) to before second node detectable stage. (Before GS32)	0.75 l/ha
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FORAGE AND GRAIN MAIZE

Weeds Controlled: Broad-leaved weeds
Crops: Forage and grain maize

Crop	Weeds controlled and latest stage of control	Time of Application for Crop	Application Rate
Forage and Grain Maize	Black nightshade (cotyledons – 6 true leaves)	From 3-6 leaves unfolded and before the crop is 20 cm (8") high and before any buttress roots start to develop at the first node. DO NOT apply to forage and grain maize beyond the recommended growth stages or in a tank mix with any other product	1 l/ha

Apply as a MEDIUM spray at 2 – 2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer in 150-400 l/ha water to give good coverage of the target weeds, increase the spray volume to 300-400 l/ha water when treating volunteer potatoes. Use the higher spray volume for application in dense crops or when weeds are large or have become hardened. Apply to dry foliage

GRASSLAND

Weeds Controlled: Annual and perennial broad-leaved weeds
Crops: Grassland
Other Specific Information: Newly sown and established grass leys and permanent pasture may be treated with TOMAHAWK for the control of annual and perennial broad-leaved weeds Do not spray swards containing clovers or other legumes if these are important constituents of the sward

Crop	Weeds controlled and latest stage of control	Time of Application for Crop	Application Rate
Newly sown grass leys	Common chickweed (to 5 cm)	In early autumn when the grasses are firmly established and are tillering and the weeds are growing actively.	0.75 l/ha
Established Grassland	Pre flowering weeds of: Broad leaved dock Common nettle (reduction of top-growth)	Broad leaved dock: normally in spring at the rosette stage, but may be applied 14-21 days after cutting when the weed foliage has re-grown. Repeat if necessary the following year Common nettle: up to mid-June when actively growing	2 l/ha in 300-400 l/ha water For spot treatment use 30 ml product per 10 L water

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 with higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visual sign of the dead weed. Do not include treated ragwort in hay or silage crops.

Apply as a MEDIUM spray at 2 – 2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer in 150-400 l/ha water

using a minimum 300 l/ha on established grassland, to give good coverage of the target weeds. Use the higher spray volume for application in dense crops or when weeds are large. When overall spraying is not justified, small weed infested areas or individual weeds may conveniently be spot treated by knapsack sprayer or hand lance connected to powered conventional hydraulic sprayer. Preferably use a flood jet to avoid spray drift. Spray to just wet the weed foliage evenly but before run-off occurs.

WEATHER AND GROWING CONDITIONS

Optimum results with TOMAHAWK can only be achieved when weeds are actively growing under good soil and weather conditions and the crop is vigorously competitive. These conditions are especially important if cleavers are to be controlled, more so if TOMAHAWK is to be applied alone in cereals without the benefit of a product in tank-mixture giving complementary activity on cleavers. Do not apply TOMAHAWK during periods of cold nights or if frost is forecast.

CULTIVATIONS

Do not roll or harrow cops within seven days of treatment with TOMAHAWK

UNDERSOWN CROPS

Do not use TOMAHAWK on crops undersown with clovers or other legumes. TOMAHAWK may be used on crops undersown with grasses only provided these are firmly established and are tillering.

APPLICATION (BCPC DEFINITIONS)

Apply to dry foliage. Do not spray if rain is imminent. Avoid spray drift onto nearby crops or areas. Avoid overlapping spray swaths. Apply as a MEDIUM spray at 2 – 2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer. Do not use on crops grown for seed production.

COMPATABILITY

For up to date details of compatible tank mixes please contact your Nufarm technical representative or refer to the Nufarm website at www.nufarm.com/uk

RESIDUES

Do not sow peas, beans, clovers or any legume for 12 months on land treated with TOMAHAWK at 2 l/ha. All manure or crop residues derived from crops treated with TOMAHAWK at 2 l/ha must be returned to grassland or land to be cropped with cereals. All straw from crops treated a 2 l/ha must not be incorporated back into the soil.

Where TOMAHAWK is applied at less than 2.0 l/ha in the event of a cereal crop failure the following crops can be sown: Spring cereals, spring oilseed rape, maize, onion, cultivated poppies and new leys. A minimum interval of 5 weeks is required and there are no cultivation restrictions. Any crop can be sown following normal harvest.

CARE OF THE SPRAYER

Directly after each days use with TOMAHAWK, wash out the sprayer thoroughly with clean water and a wetting agent recommended for the cleaning of sprayers. Traces of fluroxpyr left in the sprayer may damage susceptible crops when the equipment is subsequently used.

MIXING

Pour the required quantity of TOMAHAWK into the spray tank already half-filled with water and under agitation. Top up the spray tank with water to the required level. Maintain agitation during spraying and until the tank is sprayed out.

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 container safely.

Knapsack Rate Estimator

Using standard nozzles appropriately calibrated, each litre of mixture will treat 33m² (300 l/ha water). The rate of product applied using a knapsack sprayer must be equivalent to the application rates authorised in the "Direction for use" section of the label.

TOMAHAWK Recommendation	Quantity of TOMAHAWK required per 10 litres to treat 330 m ²	Area of use
2 l/ha in 200 – 400 l/ha water	30 ml	Established grassland to control Pre-flowering weeds of: Broad-leaved dock Common nettle (Reduction of top growth)

140 mm

COMPANY ADVISORY INFORMATION

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

ACKNOWLEDGEMENTS

*TOMAHAWK is the registered trademark of Nufarm

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by Nufarm UK Ltd. are high grade and we believe them to be suitable for the purpose for which we expressly supply them: but as we cannot exercise any control over their mixing, use or 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 our Associate. Companies for any damage or injury whatsoever arising from their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or the resellers of the product whether or not they supervise or assist in the use of such goods.

To access the Safety Data Sheet for this product scan the QR code
or refer to the Nufarm website at <https://www2.nufarm.com/uk/>



150 mm